## **Tender Text – Specifications – Detectors**

**Product reference:**

100-00700

**Specification text:**

Indoor motion detector 110°, 6 m, 3-wire (relay), base and finishing set, cream. The integrated motion detector has a detection angle of 110° horizontally, 20° sideways and 60° vertically within which all motion is detected. When a motion is detected, pre-selected lights are activated. The time the light remains on is adjustable. The light switches off automatically. Parallel connection of the automatic switch is not permitted. Particularly suitable as a staircase function. The central plate is made of rigid PC and ASA. The base material is coloured in mass. Colour: cream (coloured in mass, approximately RAL 1013)

The sockets are equipped with screw terminals for clamping the wires. When mounting in a flush-mounting box with grip surfaces, use claws that can be rotated open using screws with a slotted screwhead (slot 0.8 x 5 mm). The claws, which have a depth of engagement of 31 mm, turn back completely when loosened. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily.

• Maximum load bulb: 1000 W

• Maximum load 230V-halogen lamps: 500 W

• Maximum load (non-compensated) fluorescent lamps: 800 VA cosµ = 0.5. Maximum 1 ECG direct switching

• Light intensity range: light sensor adjustable from light (daylight) to dark

• Flush-mounting height: recommended from 0.8 to 1.2 m

• Minimum switch-off delay: 15 sec

• Maximum switch-off delay: 20 min

• Detection range (PIR): 6 m deep and 4.5 m sideways

• Detection angle horizontal: 110°

• Sideways detection angle: 20°

• Detection angle vertical: 60°

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

100-00701

**Specification text:**

Indoor motion detector 110°, 6 m, 3-wire (relay), base and finishing set, cream. The integrated motion detector has a detection angle of 110° horizontally, 20° sideways and 60° vertically within which all motion is detected. When a motion is detected, pre-selected lights are activated. The time the light remains on is adjustable. The light switches off automatically. Parallel connection of the automatic switch is not permitted. Particularly suitable as a staircase function. The central plate is made of rigid PC and ASA. The base material is coloured in mass. Colour: cream (coloured in mass, approximately RAL 1013)

The sockets are equipped with screw terminals for clamping the wires. When fixing in a flush-mounting box screws should be used. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily.

• Maximum load bulb: 300 W

• Light intensity range: light sensor adjustable from light (daylight) to dark

• Flush-mounting height: recommended from 0.8 to 1.2 m

• Minimum switch-off delay: 15 sec

• Maximum switch-off delay: 20 min

• Detection range (PIR): 6 m deep and 4.5 m sideways

• Detection angle horizontal: 110°

• Sideways detection angle: 20°

• Detection angle vertical: 60°

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

100-55511

**Specification text:**

Finishing set for indoor motion detector for Niko Home Control, cream. The indoor motion detector consists of two parts: the sensor (100-55511) and the base (550-2021X). The bridge is mounted onto a standard flush-mounting box using screws. You can switch the lights on or off by pressing the button on the motion detector. The LED lights up when you activate the motion detector manually. To dismount simply pull the central plate off the base.

• Material central plate: The central plate is made of rigid PC and ASA. The base material is coloured in mass.

• Colour: cream (coloured in mass, approximately RAL 1013)

• Impact resistance: After mounting, an impact-resistance of IK06 is guaranteed.

• The plastic parts of the central plate are self-extinguishing (comply with a filament test of 650°C) and are halogen-free.

• Input voltage: 26 Vdc (SELV, safety extra-low voltage)

• Minimum ambient temperature: -5 °C

• Maximum ambient temperature: +45 °C

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

100-78010

**Specification text:**

Wall motion detector 180°, 230 V, 9 m Finishing colour: cream. The motion detector has a detection angle of 180° horizontally, and 60° vertically within which all motion is detected. When a motion is detected, pre-selected lights are activated. The central plate is made of rigid PC and ASA. The base material is coloured in mass. Colour: cream (coloured in mass, approximately RAL 1013)

The sockets are equipped with screw terminals for clamping the wires. When mounting in a flush-mounting box with grip surfaces, use claws that can be rotated open using screws with a slotted screwhead (slot 0.8 x 5 mm). The claws, which have a depth of engagement of 31 mm, turn back completely when loosened. 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate.

• Connection terminals: 4 connection terminals

• Maximum load (non-compensated) fluorescent lamps: 500 VA

• Maximum load LED lamps: 230 W

• Light intensity range: 10 - 1000 lux

• Flush-mounting height: recommended from 0.8 to 1.2 m

• Detection range (PIR): 8 to 9 m horizontal

• Detection angle horizontal: 180°

• Detection angle vertical: 60°

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Input voltage: 230 Vac ± 10 %, 50 Hz

• An external push button or switch can be connected to the device.

• You can also turn lighting on and off manually with the push button on the unit. After four hours the light switches off automatically.

• Protection degree: IP40

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

100-78011

**Specification text:**

Indoor motion detector 180° with switching contact 10 A, 230 V, 8 m Finishing colour: cream. The motion detector has a detection angle of 180° horizontally, and 60° vertically within which all motion is detected. When a motion is detected, pre-selected lights are activated. The central plate is made of rigid PC and ASA. The base material is coloured in mass. Colour: cream (coloured in mass, approximately RAL 1013)

The sockets are equipped with screw terminals for clamping the wires. When fixing in a flush-mounting box screws should be used. 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate.

• Connection terminals: 4 connection terminals

• Maximum load bulb: 2300 W

• Maximum load 230V-halogen lamps: 2300 W

• Maximum load low voltage halogen lamps: 2300 VA

• Maximum load (non-compensated) fluorescent lamps: 1380 VA

• Light intensity range: 10 - 1000 lux

• Flush-mounting height: recommended from 0.8 to 1.2 m

• Minimum switch-off delay: 60 sec

• Maximum switch-off delay: 30 min

• Detection range (PIR): 8 to 9 m horizontal

• Detection angle horizontal: 180°

• Detection angle vertical: 60°

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Input voltage: 230 Vac ± 10 %, 50 Hz

• An external push button or switch can be connected to the device.

• You can also turn lighting on and off manually with the push button on the unit. After four hours the light switches off automatically.

• Minimum ambient temperature: -5 °C

• Maximum ambient temperature: +45 °C

• Protection degree: IP40

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

100-88000

**Specification text:**

Electronic thermostat, cream. This electronic analogue thermostat controls the central heating as well as the electric heating or air conditioning. There are 2 operational modes, heating and air conditioning, and 3 different status modes: on and day mode, eco and night mode and standby mode. The thermostat is designed for flush mounting into a wall or partition. With this thermostat, the temperature can be regulated from +5°C to +30°C. You can set a minimum and a maximum temperature so that, for example, the temperature can only be adjusted between +15°C and +25°C. The setting key has a scale indicating the temperature in steps of 5 °C. In the bottom left corner there is a 3-position switch indicating an off button, daytime setting (sun) and night-time setting (moon).

The central plate is made of rigid PC and ASA. The base material is coloured in mass. 5 connection terminals 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The sockets are equipped with screw terminals for clamping the wires. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate. When mounting in a flush-mounting box with grip surfaces, use claws that can be rotated open using screws with a slotted screwhead (slot 0.8 x 5 mm). The claws, which have a depth of engagement of 31 mm, turn back completely when loosened. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: cream (coloured in mass, approximately RAL 1013)

• Adjustment range: +5 °C to +30 °C

• Accuracy: +/- 1 °C

• Hysteresis: 1 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +50 °C

• Ambient temperature during storage and transport: -20 to +60 °C

• Protection degree: IP21 (designed for use in an environment with non-condensing humidity)

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

100-88001

**Specification text:**

Electronic thermostat, cream. This electronic analogue thermostat controls the central heating as well as the electric heating or air conditioning. There are 2 operational modes, heating and air conditioning, and 3 different status modes: on and day mode, eco and night mode and standby mode. The thermostat is designed for flush mounting into a wall or partition. With this thermostat, the temperature can be regulated from +5°C to +30°C. You can set a minimum and a maximum temperature so that, for example, the temperature can only be adjusted between +15°C and +25°C. The setting key has a scale indicating the temperature in steps of 5 °C. In the bottom left corner there is a 3-position switch indicating an off button, daytime setting (sun) and night-time setting (moon).

The central plate is made of rigid PC and ASA. The base material is coloured in mass. 5 connection terminals 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The sockets are equipped with screw terminals for clamping the wires. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate. When fixing in a flush-mounting box screws should be used. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: cream (coloured in mass, approximately RAL 1013)

• Adjustment range: +5 °C to +30 °C

• Accuracy: +/- 1 °C

• Hysteresis: 1 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +50 °C

• Ambient temperature during storage and transport: -20 to +60 °C

• Protection degree: IP21 (designed for use in an environment with non-condensing humidity)

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

100-88102

**Specification text:**

Digital clock thermostat with intelligent control and switching contact 1 A, 230 V for temperature control, cream for claw fixing. The digital clock thermostat with intelligent control is extremely well-suited for the regulation of central and electric heating. It has both day and week programmes and a permanent memory.

• operation reserve: after a power cut, the clock continues to operate for 30 min and the memory is permanently saved

• manual mode option

• max. 24 switchings can be set

• 3 types of temperature level: day, night and frost levels

• time or temperature display can be permanently set

• 6 control speeds depending of the size of the room (RP value) The central plate is made of rigid PC and ASA. The base material is coloured in mass. When mounting in a flush-mounting box with grip surfaces, use claws that can be rotated open using screws with a slotted screwhead (slot 0.8 x 5 mm). The claws, which have a depth of engagement of 31 mm, turn back completely when loosened. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: cream (coloured in mass, approximately RAL 1013)

• Accuracy: +/- 0.5 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +40 °C

• Ambient temperature during storage and transport: -25 to +75 °C

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

100-88103

**Specification text:**

Digital clock thermostat with intelligent control and switching contact 1 A, 230 V for temperature control, cream for screw fixing. The digital clock thermostat with intelligent control is extremely well-suited for the regulation of central and electric heating. It has both day and week programmes and a permanent memory.

• operation reserve: after a power cut, the clock continues to operate for 30 min and the memory is permanently saved

• manual mode option

• max. 24 switchings can be set

• 3 types of temperature level: day, night and frost levels

• time or temperature display can be permanently set

• 6 control speeds depending of the size of the room (RP value) The central plate is made of rigid PC and ASA. The base material is coloured in mass. When fixing in a flush-mounting box screws should be used. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: cream (coloured in mass, approximately RAL 1013)

• Accuracy: +/- 0.5 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +40 °C

• Ambient temperature during storage and transport: -25 to +75 °C

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

101-00700

**Specification text:**

Indoor motion detector 110°, 6 m, 3-wire (relay), base and finishing set, white. The integrated motion detector has a detection angle of 110° horizontally, 20° sideways and 60° vertically within which all motion is detected. When a motion is detected, pre-selected lights are activated. The time the light remains on is adjustable. The light switches off automatically. Parallel connection of the automatic switch is not permitted. Particularly suitable as a staircase function. The central plate is made of rigid PC and ASA. The base material is coloured in mass. Colour: white high gloss (coloured in mass, approximately RAL 9003)

The sockets are equipped with screw terminals for clamping the wires. When mounting in a flush-mounting box with grip surfaces, use claws that can be rotated open using screws with a slotted screwhead (slot 0.8 x 5 mm). The claws, which have a depth of engagement of 31 mm, turn back completely when loosened. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily.

• Maximum load bulb: 1000 W

• Maximum load 230V-halogen lamps: 500 W

• Maximum load (non-compensated) fluorescent lamps: 800 VA cosµ = 0.5. Maximum 1 ECG direct switching

• Light intensity range: light sensor adjustable from light (daylight) to dark

• Flush-mounting height: recommended from 0.8 to 1.2 m

• Minimum switch-off delay: 15 sec

• Maximum switch-off delay: 20 min

• Detection range (PIR): 6 m deep and 4.5 m sideways

• Detection angle horizontal: 110°

• Sideways detection angle: 20°

• Detection angle vertical: 60°

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

101-00701

**Specification text:**

Indoor motion detector 110°, 6 m, 3-wire (relay), base and finishing set, white. The integrated motion detector has a detection angle of 110° horizontally, 20° sideways and 60° vertically within which all motion is detected. When a motion is detected, pre-selected lights are activated. The time the light remains on is adjustable. The light switches off automatically. Parallel connection of the automatic switch is not permitted. Particularly suitable as a staircase function. The central plate is made of rigid PC and ASA. The base material is coloured in mass. Colour: white high gloss (coloured in mass, approximately RAL 9003)

The sockets are equipped with screw terminals for clamping the wires. When fixing in a flush-mounting box screws should be used. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily.

• Maximum load bulb: 300 W

• Light intensity range: light sensor adjustable from light (daylight) to dark

• Flush-mounting height: recommended from 0.8 to 1.2 m

• Minimum switch-off delay: 15 sec

• Maximum switch-off delay: 20 min

• Detection range (PIR): 6 m deep and 4.5 m sideways

• Detection angle horizontal: 110°

• Sideways detection angle: 20°

• Detection angle vertical: 60°

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

101-55511

**Specification text:**

Finishing set for indoor motion detector for Niko Home Control, white. The indoor motion detector consists of two parts: the sensor (100-55511) and the base (550-2021X). The bridge is mounted onto a standard flush-mounting box using screws. You can switch the lights on or off by pressing the button on the motion detector. The LED lights up when you activate the motion detector manually. To dismount simply pull the central plate off the base.

• Material central plate: The central plate is made of rigid PC and ASA. The base material is coloured in mass.

• Colour: white (coloured in mass, approximately RAL 9010)

• Impact resistance: After mounting, an impact-resistance of IK06 is guaranteed.

• The plastic parts of the central plate are self-extinguishing (comply with a filament test of 650°C) and are halogen-free.

• Input voltage: 26 Vdc (SELV, safety extra-low voltage)

• Minimum ambient temperature: -5 °C

• Maximum ambient temperature: +45 °C

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

101-78010

**Specification text:**

Wall motion detector 180°, 230 V, 9 m Finishing colour: white. The motion detector has a detection angle of 180° horizontally, and 60° vertically within which all motion is detected. When a motion is detected, pre-selected lights are activated. The central plate is made of rigid PC and ASA. The base material is coloured in mass. Colour: white high gloss (coloured in mass, approximately RAL 9003)

The sockets are equipped with screw terminals for clamping the wires. When mounting in a flush-mounting box with grip surfaces, use claws that can be rotated open using screws with a slotted screwhead (slot 0.8 x 5 mm). The claws, which have a depth of engagement of 31 mm, turn back completely when loosened. 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate.

• Connection terminals: 4 connection terminals

• Maximum load (non-compensated) fluorescent lamps: 500 VA

• Maximum load LED lamps: 230 W

• Relay contact: triac 1.7 A

• Light intensity range: 10 - 1000 lux

• Flush-mounting height: recommended from 0.8 to 1.2 m

• Detection range (PIR): 8 to 9 m horizontal

• Detection angle horizontal: 180°

• Detection angle vertical: 60°

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Input voltage: 230 Vac ± 10 %, 50 Hz

• An external push button or switch can be connected to the device.

• You can also turn lighting on and off manually with the push button on the unit. After four hours the light switches off automatically.

• Protection degree: IP40

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

101-78011

**Specification text:**

Indoor motion detector 180° with switching contact 10 A, 230 V, 8 m Finishing colour: white. The motion detector has a detection angle of 180° horizontally, and 60° vertically within which all motion is detected. When a motion is detected, pre-selected lights are activated. The central plate is made of rigid PC and ASA. The base material is coloured in mass. Colour: white high gloss (coloured in mass, approximately RAL 9003)

The sockets are equipped with screw terminals for clamping the wires. When fixing in a flush-mounting box screws should be used. 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate.

• Connection terminals: 4 connection terminals

• Maximum load bulb: 2300 W

• Maximum load 230V-halogen lamps: 2300 W

• Maximum load low voltage halogen lamps: 2300 VA

• Maximum load (non-compensated) fluorescent lamps: 1380 VA

• Light intensity range: 10 - 1000 lux

• Flush-mounting height: recommended from 0.8 to 1.2 m

• Minimum switch-off delay: 60 sec

• Maximum switch-off delay: 30 min

• Detection range (PIR): 8 to 9 m horizontal

• Detection angle horizontal: 180°

• Detection angle vertical: 60°

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Input voltage: 230 Vac ± 10 %, 50 Hz

• An external push button or switch can be connected to the device.

• You can also turn lighting on and off manually with the push button on the unit. After four hours the light switches off automatically.

• Minimum ambient temperature: -5 °C

• Maximum ambient temperature: +45 °C

• Protection degree: IP40

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

101-88000

**Specification text:**

Electronic thermostat, white. This electronic analogue thermostat controls the central heating as well as the electric heating or air conditioning. There are 2 operational modes, heating and air conditioning, and 3 different status modes: on and day mode, eco and night mode and standby mode. The thermostat is designed for flush mounting into a wall or partition. With this thermostat, the temperature can be regulated from +5°C to +30°C. You can set a minimum and a maximum temperature so that, for example, the temperature can only be adjusted between +15°C and +25°C. The setting key has a scale indicating the temperature in steps of 5 °C. In the bottom left corner there is a 3-position switch indicating an off button, daytime setting (sun) and night-time setting (moon).

The central plate is made of rigid PC and ASA. The base material is coloured in mass. 5 connection terminals 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The sockets are equipped with screw terminals for clamping the wires. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate. When mounting in a flush-mounting box with grip surfaces, use claws that can be rotated open using screws with a slotted screwhead (slot 0.8 x 5 mm). The claws, which have a depth of engagement of 31 mm, turn back completely when loosened. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: white (coloured in mass, approximately RAL 9010)

• Adjustment range: +5 °C to +30 °C

• Accuracy: +/- 1 °C

• Hysteresis: 1 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +50 °C

• Ambient temperature during storage and transport: -20 to +60 °C

• Protection degree: IP21 (designed for use in an environment with non-condensing humidity)

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

101-88001

**Specification text:**

Electronic thermostat, white. This electronic analogue thermostat controls the central heating as well as the electric heating or air conditioning. There are 2 operational modes, heating and air conditioning, and 3 different status modes: on and day mode, eco and night mode and standby mode. The thermostat is designed for flush mounting into a wall or partition. With this thermostat, the temperature can be regulated from +5°C to +30°C. You can set a minimum and a maximum temperature so that, for example, the temperature can only be adjusted between +15°C and +25°C. The setting key has a scale indicating the temperature in steps of 5 °C. In the bottom left corner there is a 3-position switch indicating an off button, daytime setting (sun) and night-time setting (moon).

The central plate is made of rigid PC and ASA. The base material is coloured in mass. 5 connection terminals 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The sockets are equipped with screw terminals for clamping the wires. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate. When fixing in a flush-mounting box screws should be used. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: white (coloured in mass, approximately RAL 9010)

• Adjustment range: +5 °C to +30 °C

• Accuracy: +/- 1 °C

• Hysteresis: 1 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +50 °C

• Ambient temperature during storage and transport: -20 to +60 °C

• Protection degree: IP21 (designed for use in an environment with non-condensing humidity)

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

101-88102

**Specification text:**

Digital clock thermostat with intelligent control and switching contact 1 A, 230 V for temperature control, white for claw fixing. The digital clock thermostat with intelligent control is extremely well-suited for the regulation of central and electric heating. It has both day and week programmes and a permanent memory.

• operation reserve: after a power cut, the clock continues to operate for 30 min and the memory is permanently saved

• manual mode option

• max. 24 switchings can be set

• 3 types of temperature level: day, night and frost levels

• time or temperature display can be permanently set

• 6 control speeds depending of the size of the room (RP value) The central plate is made of rigid PC and ASA. The base material is coloured in mass. When mounting in a flush-mounting box with grip surfaces, use claws that can be rotated open using screws with a slotted screwhead (slot 0.8 x 5 mm). The claws, which have a depth of engagement of 31 mm, turn back completely when loosened. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: white (coloured in mass, approximately RAL 9010)

• Accuracy: +/- 0.5 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +40 °C

• Ambient temperature during storage and transport: -25 to +75 °C

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

101-88103

**Specification text:**

Digital clock thermostat with intelligent control and switching contact 1 A, 230 V for temperature control, white for screw fixing. The digital clock thermostat with intelligent control is extremely well-suited for the regulation of central and electric heating. It has both day and week programmes and a permanent memory.

• operation reserve: after a power cut, the clock continues to operate for 30 min and the memory is permanently saved

• manual mode option

• max. 24 switchings can be set

• 3 types of temperature level: day, night and frost levels

• time or temperature display can be permanently set

• 6 control speeds depending of the size of the room (RP value) The central plate is made of rigid PC and ASA. The base material is coloured in mass. When fixing in a flush-mounting box screws should be used. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: white (coloured in mass, approximately RAL 9010)

• Accuracy: +/- 0.5 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +40 °C

• Ambient temperature during storage and transport: -25 to +75 °C

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

102-55511

**Specification text:**

Finishing set for indoor motion detector for Niko Home Control, light grey. The indoor motion detector consists of two parts: the sensor (100-55511) and the base (550-2021X). The bridge is mounted onto a standard flush-mounting box using screws. You can switch the lights on or off by pressing the button on the motion detector. The LED lights up when you activate the motion detector manually. To dismount simply pull the central plate off the base.

• Material central plate: The central plate is made of rigid PC and ASA. The base material is coloured in mass.

• Colour: light grey (coloured in mass)

• Impact resistance: After mounting, an impact-resistance of IK06 is guaranteed.

• The plastic parts of the central plate are self-extinguishing (comply with a filament test of 650°C) and are halogen-free.

• Input voltage: 26 Vdc (SELV, safety extra-low voltage)

• Minimum ambient temperature: -5 °C

• Maximum ambient temperature: +45 °C

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

102-78010

**Specification text:**

Wall motion detector 180°, 230 V, 9 m Finishing colour: light grey. The motion detector has a detection angle of 180° horizontally, and 60° vertically within which all motion is detected. When a motion is detected, pre-selected lights are activated. The central plate is made of rigid PC and ASA. The base material is coloured in mass. Colour: light grey (coloured in mass)

The sockets are equipped with screw terminals for clamping the wires. When mounting in a flush-mounting box with grip surfaces, use claws that can be rotated open using screws with a slotted screwhead (slot 0.8 x 5 mm). The claws, which have a depth of engagement of 31 mm, turn back completely when loosened. 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate.

• Connection terminals: 4 connection terminals

• Maximum load (non-compensated) fluorescent lamps: 500 VA

• Maximum load LED lamps: 230 W

• Light intensity range: 10 - 1000 lux

• Flush-mounting height: recommended from 0.8 to 1.2 m

• Detection range (PIR): 8 to 9 m horizontal

• Detection angle horizontal: 180°

• Detection angle vertical: 60°

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Input voltage: 230 Vac ± 10 %, 50 Hz

• An external push button or switch can be connected to the device.

• You can also turn lighting on and off manually with the push button on the unit. After four hours the light switches off automatically.

• Protection degree: IP40

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

102-78011

**Specification text:**

Indoor motion detector 180° with switching contact 10 A, 230 V, 8 m Finishing colour: light grey. The motion detector has a detection angle of 180° horizontally, and 60° vertically within which all motion is detected. When a motion is detected, pre-selected lights are activated. The central plate is made of rigid PC and ASA. The base material is coloured in mass. Colour: light grey (coloured in mass)

The sockets are equipped with screw terminals for clamping the wires. When fixing in a flush-mounting box screws should be used. 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate.

• Connection terminals: 4 connection terminals

• Maximum load bulb: 2300 W

• Maximum load 230V-halogen lamps: 2300 W

• Maximum load low voltage halogen lamps: 2300 VA

• Maximum load (non-compensated) fluorescent lamps: 1380 VA

• Light intensity range: 10 - 1000 lux

• Flush-mounting height: recommended from 0.8 to 1.2 m

• Minimum switch-off delay: 60 sec

• Maximum switch-off delay: 30 min

• Detection range (PIR): 8 to 9 m horizontal

• Detection angle horizontal: 180°

• Detection angle vertical: 60°

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Input voltage: 230 Vac ± 10 %, 50 Hz

• An external push button or switch can be connected to the device.

• You can also turn lighting on and off manually with the push button on the unit. After four hours the light switches off automatically.

• Minimum ambient temperature: -5 °C

• Maximum ambient temperature: +45 °C

• Protection degree: IP40

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

102-88000

**Specification text:**

Electronic thermostat, light grey. This electronic analogue thermostat controls the central heating as well as the electric heating or air conditioning. There are 2 operational modes, heating and air conditioning, and 3 different status modes: on and day mode, eco and night mode and standby mode. The thermostat is designed for flush mounting into a wall or partition. With this thermostat, the temperature can be regulated from +5°C to +30°C. You can set a minimum and a maximum temperature so that, for example, the temperature can only be adjusted between +15°C and +25°C. The setting key has a scale indicating the temperature in steps of 5 °C. In the bottom left corner there is a 3-position switch indicating an off button, daytime setting (sun) and night-time setting (moon).

The central plate is made of rigid PC and ASA. The base material is coloured in mass. 5 connection terminals 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The sockets are equipped with screw terminals for clamping the wires. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate. When mounting in a flush-mounting box with grip surfaces, use claws that can be rotated open using screws with a slotted screwhead (slot 0.8 x 5 mm). The claws, which have a depth of engagement of 31 mm, turn back completely when loosened. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: light grey (coloured in mass)

• Adjustment range: +5 °C to +30 °C

• Accuracy: +/- 1 °C

• Hysteresis: 1 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +50 °C

• Ambient temperature during storage and transport: -20 to +60 °C

• Protection degree: IP21 (designed for use in an environment with non-condensing humidity)

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

102-88001

**Specification text:**

Electronic thermostat, light grey. This electronic analogue thermostat controls the central heating as well as the electric heating or air conditioning. There are 2 operational modes, heating and air conditioning, and 3 different status modes: on and day mode, eco and night mode and standby mode. The thermostat is designed for flush mounting into a wall or partition. With this thermostat, the temperature can be regulated from +5°C to +30°C. You can set a minimum and a maximum temperature so that, for example, the temperature can only be adjusted between +15°C and +25°C. The setting key has a scale indicating the temperature in steps of 5 °C. In the bottom left corner there is a 3-position switch indicating an off button, daytime setting (sun) and night-time setting (moon).

The central plate is made of rigid PC and ASA. The base material is coloured in mass. 5 connection terminals 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The sockets are equipped with screw terminals for clamping the wires. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate. When fixing in a flush-mounting box screws should be used. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: light grey (coloured in mass)

• Adjustment range: +5 °C to +30 °C

• Accuracy: +/- 1 °C

• Hysteresis: 1 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +50 °C

• Ambient temperature during storage and transport: -20 to +60 °C

• Protection degree: IP21 (designed for use in an environment with non-condensing humidity)

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

102-88102

**Specification text:**

Digital clock thermostat with intelligent control and switching contact 1 A, 230 V for temperature control, light grey for claw fixing. The digital clock thermostat with intelligent control is extremely well-suited for the regulation of central and electric heating. It has both day and week programmes and a permanent memory.

• operation reserve: after a power cut, the clock continues to operate for 30 min and the memory is permanently saved

• manual mode option

• max. 24 switchings can be set

• 3 types of temperature level: day, night and frost levels

• time or temperature display can be permanently set

• 6 control speeds depending of the size of the room (RP value) The central plate is made of rigid PC and ASA. The base material is coloured in mass. When mounting in a flush-mounting box with grip surfaces, use claws that can be rotated open using screws with a slotted screwhead (slot 0.8 x 5 mm). The claws, which have a depth of engagement of 31 mm, turn back completely when loosened. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: light grey (coloured in mass)

• Accuracy: +/- 0.5 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +40 °C

• Ambient temperature during storage and transport: -25 to +75 °C

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

102-88103

**Specification text:**

Digital clock thermostat with intelligent control and switching contact 1 A, 230 V for temperature control, light grey for screw fixing. The digital clock thermostat with intelligent control is extremely well-suited for the regulation of central and electric heating. It has both day and week programmes and a permanent memory.

• operation reserve: after a power cut, the clock continues to operate for 30 min and the memory is permanently saved

• manual mode option

• max. 24 switchings can be set

• 3 types of temperature level: day, night and frost levels

• time or temperature display can be permanently set

• 6 control speeds depending of the size of the room (RP value) The central plate is made of rigid PC and ASA. The base material is coloured in mass. When fixing in a flush-mounting box screws should be used. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: light grey (coloured in mass)

• Accuracy: +/- 0.5 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +40 °C

• Ambient temperature during storage and transport: -25 to +75 °C

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

104-55511

**Specification text:**

Finishing set for indoor motion detector for Niko Home Control, greige. The indoor motion detector consists of two parts: the sensor (100-55511) and the base (550-2021X). The bridge is mounted onto a standard flush-mounting box using screws. You can switch the lights on or off by pressing the button on the motion detector. The LED lights up when you activate the motion detector manually. To dismount simply pull the central plate off the base.

• Material central plate: The central plate is enamelled and made of rigid PC and ASA.

• Colour: greige (coloured in mass, approximately NCS S5005-Y50R).

• Impact resistance: After mounting, an impact-resistance of IK06 is guaranteed.

• The plastic parts of the central plate are self-extinguishing (comply with a filament test of 650°C) and are halogen-free.

• Input voltage: 26 Vdc (SELV, safety extra-low voltage)

• Minimum ambient temperature: -5 °C

• Maximum ambient temperature: +45 °C

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

104-78010

**Specification text:**

Wall motion detector 180°, 230 V, 9 m Finishing colour: greige. The motion detector has a detection angle of 180° horizontally, and 60° vertically within which all motion is detected. When a motion is detected, pre-selected lights are activated. The central plate is enamelled and made of rigid PC and ASA. Colour: greige (coloured in mass, approximately NCS S5005-Y50R).

The sockets are equipped with screw terminals for clamping the wires. When mounting in a flush-mounting box with grip surfaces, use claws that can be rotated open using screws with a slotted screwhead (slot 0.8 x 5 mm). The claws, which have a depth of engagement of 31 mm, turn back completely when loosened. 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate.

• Connection terminals: 4 connection terminals

• Maximum load (non-compensated) fluorescent lamps: 500 VA

• Maximum load LED lamps: 230 W

• Light intensity range: 10 - 1000 lux

• Flush-mounting height: recommended from 0.8 to 1.2 m

• Detection range (PIR): 8 to 9 m horizontal

• Detection angle horizontal: 180°

• Detection angle vertical: 60°

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Input voltage: 230 Vac ± 10 %, 50 Hz

• An external push button or switch can be connected to the device.

• You can also turn lighting on and off manually with the push button on the unit. After four hours the light switches off automatically.

• Protection degree: IP40

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

104-78011

**Specification text:**

Indoor motion detector 180° with switching contact 10 A, 230 V, 8 m Finishing colour: greige. The motion detector has a detection angle of 180° horizontally, and 60° vertically within which all motion is detected. When a motion is detected, pre-selected lights are activated. The central plate is enamelled and made of rigid PC and ASA. Colour: greige (coloured in mass, approximately NCS S5005-Y50R).

The sockets are equipped with screw terminals for clamping the wires. When fixing in a flush-mounting box screws should be used. 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate.

• Connection terminals: 4 connection terminals

• Maximum load bulb: 2300 W

• Maximum load 230V-halogen lamps: 2300 W

• Maximum load low voltage halogen lamps: 2300 VA

• Maximum load (non-compensated) fluorescent lamps: 1380 VA

• Light intensity range: 10 - 1000 lux

• Flush-mounting height: recommended from 0.8 to 1.2 m

• Minimum switch-off delay: 60 sec

• Maximum switch-off delay: 30 min

• Detection range (PIR): 8 to 9 m horizontal

• Detection angle horizontal: 180°

• Detection angle vertical: 60°

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Input voltage: 230 Vac ± 10 %, 50 Hz

• An external push button or switch can be connected to the device.

• You can also turn lighting on and off manually with the push button on the unit. After four hours the light switches off automatically.

• Minimum ambient temperature: -5 °C

• Maximum ambient temperature: +45 °C

• Protection degree: IP40

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

104-88000

**Specification text:**

Electronic thermostat, greige. This electronic analogue thermostat controls the central heating as well as the electric heating or air conditioning. There are 2 operational modes, heating and air conditioning, and 3 different status modes: on and day mode, eco and night mode and standby mode. The thermostat is designed for flush mounting into a wall or partition. With this thermostat, the temperature can be regulated from +5°C to +30°C. You can set a minimum and a maximum temperature so that, for example, the temperature can only be adjusted between +15°C and +25°C. The setting key has a scale indicating the temperature in steps of 5 °C. In the bottom left corner there is a 3-position switch indicating an off button, daytime setting (sun) and night-time setting (moon).

The central plate is enamelled and made of rigid PC and ASA. 5 connection terminals 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The sockets are equipped with screw terminals for clamping the wires. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate. When mounting in a flush-mounting box with grip surfaces, use claws that can be rotated open using screws with a slotted screwhead (slot 0.8 x 5 mm). The claws, which have a depth of engagement of 31 mm, turn back completely when loosened. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: greige (coloured in mass, approximately NCS S5005-Y50R).

• Adjustment range: +5 °C to +30 °C

• Accuracy: +/- 1 °C

• Hysteresis: 1 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +50 °C

• Ambient temperature during storage and transport: -20 to +60 °C

• Protection degree: IP21 (designed for use in an environment with non-condensing humidity)

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

104-88001

**Specification text:**

Electronic thermostat, greige. This electronic analogue thermostat controls the central heating as well as the electric heating or air conditioning. There are 2 operational modes, heating and air conditioning, and 3 different status modes: on and day mode, eco and night mode and standby mode. The thermostat is designed for flush mounting into a wall or partition. With this thermostat, the temperature can be regulated from +5°C to +30°C. You can set a minimum and a maximum temperature so that, for example, the temperature can only be adjusted between +15°C and +25°C. The setting key has a scale indicating the temperature in steps of 5 °C. In the bottom left corner there is a 3-position switch indicating an off button, daytime setting (sun) and night-time setting (moon).

The central plate is enamelled and made of rigid PC and ASA. 5 connection terminals 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The sockets are equipped with screw terminals for clamping the wires. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate. When fixing in a flush-mounting box screws should be used. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: greige (coloured in mass, approximately NCS S5005-Y50R).

• Adjustment range: +5 °C to +30 °C

• Accuracy: +/- 1 °C

• Hysteresis: 1 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +50 °C

• Ambient temperature during storage and transport: -20 to +60 °C

• Protection degree: IP21 (designed for use in an environment with non-condensing humidity)

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

104-88102

**Specification text:**

Digital clock thermostat with intelligent control and switching contact 1 A, 230 V for temperature control, greige for claw fixing. The digital clock thermostat with intelligent control is extremely well-suited for the regulation of central and electric heating. It has both day and week programmes and a permanent memory.

• operation reserve: after a power cut, the clock continues to operate for 30 min and the memory is permanently saved

• manual mode option

• max. 24 switchings can be set

• 3 types of temperature level: day, night and frost levels

• time or temperature display can be permanently set

• 6 control speeds depending of the size of the room (RP value) The central plate is enamelled and made of rigid PC and ASA. When mounting in a flush-mounting box with grip surfaces, use claws that can be rotated open using screws with a slotted screwhead (slot 0.8 x 5 mm). The claws, which have a depth of engagement of 31 mm, turn back completely when loosened. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: greige (coloured in mass, approximately NCS S5005-Y50R).

• Accuracy: +/- 0.5 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +40 °C

• Ambient temperature during storage and transport: -25 to +75 °C

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

104-88103

**Specification text:**

Digital clock thermostat with intelligent control and switching contact 1 A, 230 V for temperature control, greige for screw fixing. The digital clock thermostat with intelligent control is extremely well-suited for the regulation of central and electric heating. It has both day and week programmes and a permanent memory.

• operation reserve: after a power cut, the clock continues to operate for 30 min and the memory is permanently saved

• manual mode option

• max. 24 switchings can be set

• 3 types of temperature level: day, night and frost levels

• time or temperature display can be permanently set

• 6 control speeds depending of the size of the room (RP value) The central plate is enamelled and made of rigid PC and ASA. When fixing in a flush-mounting box screws should be used. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: greige (coloured in mass, approximately NCS S5005-Y50R).

• Accuracy: +/- 0.5 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +40 °C

• Ambient temperature during storage and transport: -25 to +75 °C

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

121-55511

**Specification text:**

Finishing set for indoor motion detector for Niko Home Control, sterling. The indoor motion detector consists of two parts: the sensor (100-55511) and the base (550-2021X). The bridge is mounted onto a standard flush-mounting box using screws. You can switch the lights on or off by pressing the button on the motion detector. The LED lights up when you activate the motion detector manually. To dismount simply pull the central plate off the base.

• Material central plate: The central plate is enamelled and made of rigid PC and ASA.

• Colour: enamelled sterling

• Impact resistance: After mounting, an impact-resistance of IK06 is guaranteed.

• The plastic parts of the central plate are self-extinguishing (comply with a filament test of 650°C) and are halogen-free.

• Input voltage: 26 Vdc (SELV, safety extra-low voltage)

• Minimum ambient temperature: -5 °C

• Maximum ambient temperature: +45 °C

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

121-78010

**Specification text:**

Wall motion detector 180°, 230 V, 9 m Finishing colour: sterling. The motion detector has a detection angle of 180° horizontally, and 60° vertically within which all motion is detected. When a motion is detected, pre-selected lights are activated. The central plate is enamelled and made of rigid PC and ASA. Colour: enamelled sterling

The sockets are equipped with screw terminals for clamping the wires. When mounting in a flush-mounting box with grip surfaces, use claws that can be rotated open using screws with a slotted screwhead (slot 0.8 x 5 mm). The claws, which have a depth of engagement of 31 mm, turn back completely when loosened. 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate.

• Connection terminals: 4 connection terminals

• Maximum load (non-compensated) fluorescent lamps: 500 VA

• Maximum load LED lamps: 230 W

• Light intensity range: 10 - 1000 lux

• Flush-mounting height: recommended from 0.8 to 1.2 m

• Detection range (PIR): 8 to 9 m horizontal

• Detection angle horizontal: 180°

• Detection angle vertical: 60°

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Input voltage: 230 Vac ± 10 %, 50 Hz

• An external push button or switch can be connected to the device.

• You can also turn lighting on and off manually with the push button on the unit. After four hours the light switches off automatically.

• Protection degree: IP40

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

121-78011

**Specification text:**

Indoor motion detector 180° with switching contact 10 A, 230 V, 8 m Finishing colour: sterling. The motion detector has a detection angle of 180° horizontally, and 60° vertically within which all motion is detected. When a motion is detected, pre-selected lights are activated. The central plate is enamelled and made of rigid PC and ASA. Colour: enamelled sterling

The sockets are equipped with screw terminals for clamping the wires. When fixing in a flush-mounting box screws should be used. 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate.

• Connection terminals: 4 connection terminals

• Maximum load bulb: 2300 W

• Maximum load 230V-halogen lamps: 2300 W

• Maximum load low voltage halogen lamps: 2300 VA

• Maximum load (non-compensated) fluorescent lamps: 1380 VA

• Light intensity range: 10 - 1000 lux

• Flush-mounting height: recommended from 0.8 to 1.2 m

• Minimum switch-off delay: 60 sec

• Maximum switch-off delay: 30 min

• Detection range (PIR): 8 to 9 m horizontal

• Detection angle horizontal: 180°

• Detection angle vertical: 60°

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Input voltage: 230 Vac ± 10 %, 50 Hz

• An external push button or switch can be connected to the device.

• You can also turn lighting on and off manually with the push button on the unit. After four hours the light switches off automatically.

• Minimum ambient temperature: -5 °C

• Maximum ambient temperature: +45 °C

• Protection degree: IP40

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

121-88000

**Specification text:**

Electronic thermostat, sterling. This electronic analogue thermostat controls the central heating as well as the electric heating or air conditioning. There are 2 operational modes, heating and air conditioning, and 3 different status modes: on and day mode, eco and night mode and standby mode. The thermostat is designed for flush mounting into a wall or partition. With this thermostat, the temperature can be regulated from +5°C to +30°C. You can set a minimum and a maximum temperature so that, for example, the temperature can only be adjusted between +15°C and +25°C. The setting key has a scale indicating the temperature in steps of 5 °C. In the bottom left corner there is a 3-position switch indicating an off button, daytime setting (sun) and night-time setting (moon).

The central plate is enamelled and made of rigid PC and ASA. 5 connection terminals 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The sockets are equipped with screw terminals for clamping the wires. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate. When mounting in a flush-mounting box with grip surfaces, use claws that can be rotated open using screws with a slotted screwhead (slot 0.8 x 5 mm). The claws, which have a depth of engagement of 31 mm, turn back completely when loosened. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: enamelled sterling

• Adjustment range: +5 °C to +30 °C

• Accuracy: +/- 1 °C

• Hysteresis: 1 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +50 °C

• Ambient temperature during storage and transport: -20 to +60 °C

• Protection degree: IP21 (designed for use in an environment with non-condensing humidity)

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

121-88001

**Specification text:**

Electronic thermostat, sterling. This electronic analogue thermostat controls the central heating as well as the electric heating or air conditioning. There are 2 operational modes, heating and air conditioning, and 3 different status modes: on and day mode, eco and night mode and standby mode. The thermostat is designed for flush mounting into a wall or partition. With this thermostat, the temperature can be regulated from +5°C to +30°C. You can set a minimum and a maximum temperature so that, for example, the temperature can only be adjusted between +15°C and +25°C. The setting key has a scale indicating the temperature in steps of 5 °C. In the bottom left corner there is a 3-position switch indicating an off button, daytime setting (sun) and night-time setting (moon).

The central plate is enamelled and made of rigid PC and ASA. 5 connection terminals 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The sockets are equipped with screw terminals for clamping the wires. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate. When fixing in a flush-mounting box screws should be used. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: enamelled sterling

• Adjustment range: +5 °C to +30 °C

• Accuracy: +/- 1 °C

• Hysteresis: 1 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +50 °C

• Ambient temperature during storage and transport: -20 to +60 °C

• Protection degree: IP21 (designed for use in an environment with non-condensing humidity)

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

121-88102

**Specification text:**

Digital clock thermostat with intelligent control and switching contact 1 A, 230 V for temperature control, sterling for claw fixing. The digital clock thermostat with intelligent control is extremely well-suited for the regulation of central and electric heating. It has both day and week programmes and a permanent memory.

• operation reserve: after a power cut, the clock continues to operate for 30 min and the memory is permanently saved

• manual mode option

• max. 24 switchings can be set

• 3 types of temperature level: day, night and frost levels

• time or temperature display can be permanently set

• 6 control speeds depending of the size of the room (RP value) The central plate is enamelled and made of rigid PC and ASA. When mounting in a flush-mounting box with grip surfaces, use claws that can be rotated open using screws with a slotted screwhead (slot 0.8 x 5 mm). The claws, which have a depth of engagement of 31 mm, turn back completely when loosened. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: enamelled sterling

• Accuracy: +/- 0.5 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +40 °C

• Ambient temperature during storage and transport: -25 to +75 °C

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

121-88103

**Specification text:**

Digital clock thermostat with intelligent control and switching contact 1 A, 230 V for temperature control, sterling for screw fixing. The digital clock thermostat with intelligent control is extremely well-suited for the regulation of central and electric heating. It has both day and week programmes and a permanent memory.

• operation reserve: after a power cut, the clock continues to operate for 30 min and the memory is permanently saved

• manual mode option

• max. 24 switchings can be set

• 3 types of temperature level: day, night and frost levels

• time or temperature display can be permanently set

• 6 control speeds depending of the size of the room (RP value) The central plate is enamelled and made of rigid PC and ASA. When fixing in a flush-mounting box screws should be used. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: enamelled sterling

• Accuracy: +/- 0.5 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +40 °C

• Ambient temperature during storage and transport: -25 to +75 °C

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

122-55511

**Specification text:**

Finishing set for indoor motion detector for Niko Home Control, anthracite. The indoor motion detector consists of two parts: the sensor (100-55511) and the base (550-2021X). The bridge is mounted onto a standard flush-mounting box using screws. You can switch the lights on or off by pressing the button on the motion detector. The LED lights up when you activate the motion detector manually. To dismount simply pull the central plate off the base.

• Material central plate: The central plate is enamelled and made of rigid PC and ASA.

• Colour: enamelled anthracite

• Impact resistance: After mounting, an impact-resistance of IK06 is guaranteed.

• The plastic parts of the central plate are self-extinguishing (comply with a filament test of 650°C) and are halogen-free.

• Input voltage: 26 Vdc (SELV, safety extra-low voltage)

• Minimum ambient temperature: -5 °C

• Maximum ambient temperature: +45 °C

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

122-78010

**Specification text:**

Wall motion detector 180°, 230 V, 9 m Finishing colour: anthracite. The motion detector has a detection angle of 180° horizontally, and 60° vertically within which all motion is detected. When a motion is detected, pre-selected lights are activated. The central plate is enamelled and made of rigid PC and ASA. Colour: enamelled anthracite

The sockets are equipped with screw terminals for clamping the wires. When mounting in a flush-mounting box with grip surfaces, use claws that can be rotated open using screws with a slotted screwhead (slot 0.8 x 5 mm). The claws, which have a depth of engagement of 31 mm, turn back completely when loosened. 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate.

• Connection terminals: 4 connection terminals

• Maximum load (non-compensated) fluorescent lamps: 500 VA

• Maximum load LED lamps: 230 W

• Light intensity range: 10 - 1000 lux

• Flush-mounting height: recommended from 0.8 to 1.2 m

• Detection range (PIR): 8 to 9 m horizontal

• Detection angle horizontal: 180°

• Detection angle vertical: 60°

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Input voltage: 230 Vac ± 10 %, 50 Hz

• An external push button or switch can be connected to the device.

• You can also turn lighting on and off manually with the push button on the unit. After four hours the light switches off automatically.

• Protection degree: IP40

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

122-78011

**Specification text:**

Indoor motion detector 180° with switching contact 10 A, 230 V, 8 m Finishing colour: anthracite. The motion detector has a detection angle of 180° horizontally, and 60° vertically within which all motion is detected. When a motion is detected, pre-selected lights are activated. The central plate is enamelled and made of rigid PC and ASA. Colour: enamelled anthracite

The sockets are equipped with screw terminals for clamping the wires. When fixing in a flush-mounting box screws should be used. 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate.

• Connection terminals: 4 connection terminals

• Maximum load bulb: 2300 W

• Maximum load 230V-halogen lamps: 2300 W

• Maximum load low voltage halogen lamps: 2300 VA

• Maximum load (non-compensated) fluorescent lamps: 1380 VA

• Light intensity range: 10 - 1000 lux

• Flush-mounting height: recommended from 0.8 to 1.2 m

• Minimum switch-off delay: 60 sec

• Maximum switch-off delay: 30 min

• Detection range (PIR): 8 to 9 m horizontal

• Detection angle horizontal: 180°

• Detection angle vertical: 60°

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Input voltage: 230 Vac ± 10 %, 50 Hz

• An external push button or switch can be connected to the device.

• You can also turn lighting on and off manually with the push button on the unit. After four hours the light switches off automatically.

• Minimum ambient temperature: -5 °C

• Maximum ambient temperature: +45 °C

• Protection degree: IP40

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

122-88000

**Specification text:**

Electronic thermostat, anthracite. This electronic analogue thermostat controls the central heating as well as the electric heating or air conditioning. There are 2 operational modes, heating and air conditioning, and 3 different status modes: on and day mode, eco and night mode and standby mode. The thermostat is designed for flush mounting into a wall or partition. With this thermostat, the temperature can be regulated from +5°C to +30°C. You can set a minimum and a maximum temperature so that, for example, the temperature can only be adjusted between +15°C and +25°C. The setting key has a scale indicating the temperature in steps of 5 °C. In the bottom left corner there is a 3-position switch indicating an off button, daytime setting (sun) and night-time setting (moon).

The central plate is enamelled and made of rigid PC and ASA. 5 connection terminals 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The sockets are equipped with screw terminals for clamping the wires. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate. When mounting in a flush-mounting box with grip surfaces, use claws that can be rotated open using screws with a slotted screwhead (slot 0.8 x 5 mm). The claws, which have a depth of engagement of 31 mm, turn back completely when loosened. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: enamelled anthracite

• Adjustment range: +5 °C to +30 °C

• Accuracy: +/- 1 °C

• Hysteresis: 1 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +50 °C

• Ambient temperature during storage and transport: -20 to +60 °C

• Protection degree: IP21 (designed for use in an environment with non-condensing humidity)

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

122-88001

**Specification text:**

Electronic thermostat, anthracite. This electronic analogue thermostat controls the central heating as well as the electric heating or air conditioning. There are 2 operational modes, heating and air conditioning, and 3 different status modes: on and day mode, eco and night mode and standby mode. The thermostat is designed for flush mounting into a wall or partition. With this thermostat, the temperature can be regulated from +5°C to +30°C. You can set a minimum and a maximum temperature so that, for example, the temperature can only be adjusted between +15°C and +25°C. The setting key has a scale indicating the temperature in steps of 5 °C. In the bottom left corner there is a 3-position switch indicating an off button, daytime setting (sun) and night-time setting (moon).

The central plate is enamelled and made of rigid PC and ASA. 5 connection terminals 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The sockets are equipped with screw terminals for clamping the wires. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate. When fixing in a flush-mounting box screws should be used. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: enamelled anthracite

• Adjustment range: +5 °C to +30 °C

• Accuracy: +/- 1 °C

• Hysteresis: 1 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +50 °C

• Ambient temperature during storage and transport: -20 to +60 °C

• Protection degree: IP21 (designed for use in an environment with non-condensing humidity)

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

122-88102

**Specification text:**

Digital clock thermostat with intelligent control and switching contact 1 A, 230 V for temperature control, anthracite for claw fixing. The digital clock thermostat with intelligent control is extremely well-suited for the regulation of central and electric heating. It has both day and week programmes and a permanent memory.

• operation reserve: after a power cut, the clock continues to operate for 30 min and the memory is permanently saved

• manual mode option

• max. 24 switchings can be set

• 3 types of temperature level: day, night and frost levels

• time or temperature display can be permanently set

• 6 control speeds depending of the size of the room (RP value) The central plate is enamelled and made of rigid PC and ASA. When mounting in a flush-mounting box with grip surfaces, use claws that can be rotated open using screws with a slotted screwhead (slot 0.8 x 5 mm). The claws, which have a depth of engagement of 31 mm, turn back completely when loosened. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: enamelled anthracite

• Accuracy: +/- 0.5 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +40 °C

• Ambient temperature during storage and transport: -25 to +75 °C

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

122-88103

**Specification text:**

Digital clock thermostat with intelligent control and switching contact 1 A, 230 V for temperature control, anthracite for screw fixing. The digital clock thermostat with intelligent control is extremely well-suited for the regulation of central and electric heating. It has both day and week programmes and a permanent memory.

• operation reserve: after a power cut, the clock continues to operate for 30 min and the memory is permanently saved

• manual mode option

• max. 24 switchings can be set

• 3 types of temperature level: day, night and frost levels

• time or temperature display can be permanently set

• 6 control speeds depending of the size of the room (RP value) The central plate is enamelled and made of rigid PC and ASA. When fixing in a flush-mounting box screws should be used. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: enamelled anthracite

• Accuracy: +/- 0.5 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +40 °C

• Ambient temperature during storage and transport: -25 to +75 °C

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

123-55511

**Specification text:**

Finishing set for indoor motion detector for Niko Home Control, bronze. The indoor motion detector consists of two parts: the sensor (100-55511) and the base (550-2021X). The bridge is mounted onto a standard flush-mounting box using screws. You can switch the lights on or off by pressing the button on the motion detector. The LED lights up when you activate the motion detector manually. To dismount simply pull the central plate off the base.

• Material central plate: The central plate is enamelled and made of rigid PC and ASA.

• Colour: enamelled bronze

• Impact resistance: After mounting, an impact-resistance of IK06 is guaranteed.

• The plastic parts of the central plate are self-extinguishing (comply with a filament test of 650°C) and are halogen-free.

• Input voltage: 26 Vdc (SELV, safety extra-low voltage)

• Minimum ambient temperature: -5 °C

• Maximum ambient temperature: +45 °C

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

123-78010

**Specification text:**

Wall motion detector 180°, 230 V, 9 m Finishing colour: bronze. The motion detector has a detection angle of 180° horizontally, and 60° vertically within which all motion is detected. When a motion is detected, pre-selected lights are activated. The central plate is enamelled and made of rigid PC and ASA. Colour: enamelled bronze

The sockets are equipped with screw terminals for clamping the wires. When mounting in a flush-mounting box with grip surfaces, use claws that can be rotated open using screws with a slotted screwhead (slot 0.8 x 5 mm). The claws, which have a depth of engagement of 31 mm, turn back completely when loosened. 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate.

• Connection terminals: 4 connection terminals

• Maximum load (non-compensated) fluorescent lamps: 500 VA

• Maximum load LED lamps: 230 W

• Light intensity range: 10 - 1000 lux

• Flush-mounting height: recommended from 0.8 to 1.2 m

• Detection range (PIR): 8 to 9 m horizontal

• Detection angle horizontal: 180°

• Detection angle vertical: 60°

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Input voltage: 230 Vac ± 10 %, 50 Hz

• An external push button or switch can be connected to the device.

• You can also turn lighting on and off manually with the push button on the unit. After four hours the light switches off automatically.

• Protection degree: IP40

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

123-78011

**Specification text:**

Indoor motion detector 180° with switching contact 10 A, 230 V, 8 m Finishing colour: bronze. The motion detector has a detection angle of 180° horizontally, and 60° vertically within which all motion is detected. When a motion is detected, pre-selected lights are activated. The central plate is enamelled and made of rigid PC and ASA. Colour: enamelled bronze

The sockets are equipped with screw terminals for clamping the wires. When fixing in a flush-mounting box screws should be used. 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate.

• Connection terminals: 4 connection terminals

• Maximum load bulb: 2300 W

• Maximum load 230V-halogen lamps: 2300 W

• Maximum load low voltage halogen lamps: 2300 VA

• Maximum load (non-compensated) fluorescent lamps: 1380 VA

• Light intensity range: 10 - 1000 lux

• Flush-mounting height: recommended from 0.8 to 1.2 m

• Minimum switch-off delay: 60 sec

• Maximum switch-off delay: 30 min

• Detection range (PIR): 8 to 9 m horizontal

• Detection angle horizontal: 180°

• Detection angle vertical: 60°

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Input voltage: 230 Vac ± 10 %, 50 Hz

• An external push button or switch can be connected to the device.

• You can also turn lighting on and off manually with the push button on the unit. After four hours the light switches off automatically.

• Minimum ambient temperature: -5 °C

• Maximum ambient temperature: +45 °C

• Protection degree: IP40

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

123-88000

**Specification text:**

Electronic thermostat, bronze. This electronic analogue thermostat controls the central heating as well as the electric heating or air conditioning. There are 2 operational modes, heating and air conditioning, and 3 different status modes: on and day mode, eco and night mode and standby mode. The thermostat is designed for flush mounting into a wall or partition. With this thermostat, the temperature can be regulated from +5°C to +30°C. You can set a minimum and a maximum temperature so that, for example, the temperature can only be adjusted between +15°C and +25°C. The setting key has a scale indicating the temperature in steps of 5 °C. In the bottom left corner there is a 3-position switch indicating an off button, daytime setting (sun) and night-time setting (moon).

The central plate is enamelled and made of rigid PC and ASA. 5 connection terminals 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The sockets are equipped with screw terminals for clamping the wires. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate. When mounting in a flush-mounting box with grip surfaces, use claws that can be rotated open using screws with a slotted screwhead (slot 0.8 x 5 mm). The claws, which have a depth of engagement of 31 mm, turn back completely when loosened. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: enamelled bronze

• Adjustment range: +5 °C to +30 °C

• Accuracy: +/- 1 °C

• Hysteresis: 1 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +50 °C

• Ambient temperature during storage and transport: -20 to +60 °C

• Protection degree: IP21 (designed for use in an environment with non-condensing humidity)

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

123-88001

**Specification text:**

Electronic thermostat, bronze. This electronic analogue thermostat controls the central heating as well as the electric heating or air conditioning. There are 2 operational modes, heating and air conditioning, and 3 different status modes: on and day mode, eco and night mode and standby mode. The thermostat is designed for flush mounting into a wall or partition. With this thermostat, the temperature can be regulated from +5°C to +30°C. You can set a minimum and a maximum temperature so that, for example, the temperature can only be adjusted between +15°C and +25°C. The setting key has a scale indicating the temperature in steps of 5 °C. In the bottom left corner there is a 3-position switch indicating an off button, daytime setting (sun) and night-time setting (moon).

The central plate is enamelled and made of rigid PC and ASA. 5 connection terminals 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The sockets are equipped with screw terminals for clamping the wires. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate. When fixing in a flush-mounting box screws should be used. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: enamelled bronze

• Adjustment range: +5 °C to +30 °C

• Accuracy: +/- 1 °C

• Hysteresis: 1 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +50 °C

• Ambient temperature during storage and transport: -20 to +60 °C

• Protection degree: IP21 (designed for use in an environment with non-condensing humidity)

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

123-88102

**Specification text:**

Digital clock thermostat with intelligent control and switching contact 1 A, 230 V for temperature control, bronze for claw fixing. The digital clock thermostat with intelligent control is extremely well-suited for the regulation of central and electric heating. It has both day and week programmes and a permanent memory.

• operation reserve: after a power cut, the clock continues to operate for 30 min and the memory is permanently saved

• manual mode option

• max. 24 switchings can be set

• 3 types of temperature level: day, night and frost levels

• time or temperature display can be permanently set

• 6 control speeds depending of the size of the room (RP value) The central plate is enamelled and made of rigid PC and ASA. When mounting in a flush-mounting box with grip surfaces, use claws that can be rotated open using screws with a slotted screwhead (slot 0.8 x 5 mm). The claws, which have a depth of engagement of 31 mm, turn back completely when loosened. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: enamelled bronze

• Accuracy: +/- 0.5 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +40 °C

• Ambient temperature during storage and transport: -25 to +75 °C

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

123-88103

**Specification text:**

Digital clock thermostat with intelligent control and switching contact 1 A, 230 V for temperature control, bronze for screw fixing. The digital clock thermostat with intelligent control is extremely well-suited for the regulation of central and electric heating. It has both day and week programmes and a permanent memory.

• operation reserve: after a power cut, the clock continues to operate for 30 min and the memory is permanently saved

• manual mode option

• max. 24 switchings can be set

• 3 types of temperature level: day, night and frost levels

• time or temperature display can be permanently set

• 6 control speeds depending of the size of the room (RP value) The central plate is enamelled and made of rigid PC and ASA. When fixing in a flush-mounting box screws should be used. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: enamelled bronze

• Accuracy: +/- 0.5 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +40 °C

• Ambient temperature during storage and transport: -25 to +75 °C

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

124-55511

**Specification text:**

Finishing set for indoor motion detector for Niko Home Control, dark brown. The indoor motion detector consists of two parts: the sensor (100-55511) and the base (550-2021X). The bridge is mounted onto a standard flush-mounting box using screws. You can switch the lights on or off by pressing the button on the motion detector. The LED lights up when you activate the motion detector manually. To dismount simply pull the central plate off the base.

• Material central plate: The central plate is enamelled and made of rigid PC and ASA.

• Colour: enamelled dark brown

• Impact resistance: After mounting, an impact-resistance of IK06 is guaranteed.

• The plastic parts of the central plate are self-extinguishing (comply with a filament test of 650°C) and are halogen-free.

• Input voltage: 26 Vdc (SELV, safety extra-low voltage)

• Minimum ambient temperature: -5 °C

• Maximum ambient temperature: +45 °C

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

124-78010

**Specification text:**

Wall motion detector 180°, 230 V, 9 m Finishing colour: dark brown. The motion detector has a detection angle of 180° horizontally, and 60° vertically within which all motion is detected. When a motion is detected, pre-selected lights are activated. The central plate is enamelled and made of rigid PC and ASA. Colour: enamelled dark brown

The sockets are equipped with screw terminals for clamping the wires. When mounting in a flush-mounting box with grip surfaces, use claws that can be rotated open using screws with a slotted screwhead (slot 0.8 x 5 mm). The claws, which have a depth of engagement of 31 mm, turn back completely when loosened. 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate.

• Connection terminals: 4 connection terminals

• Maximum load (non-compensated) fluorescent lamps: 500 VA

• Maximum load LED lamps: 230 W

• Light intensity range: 10 - 1000 lux

• Flush-mounting height: recommended from 0.8 to 1.2 m

• Detection range (PIR): 8 to 9 m horizontal

• Detection angle horizontal: 180°

• Detection angle vertical: 60°

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Input voltage: 230 Vac ± 10 %, 50 Hz

• An external push button or switch can be connected to the device.

• You can also turn lighting on and off manually with the push button on the unit. After four hours the light switches off automatically.

• Protection degree: IP40

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

124-78011

**Specification text:**

Indoor motion detector 180° with switching contact 10 A, 230 V, 8 m Finishing colour: dark brown. The motion detector has a detection angle of 180° horizontally, and 60° vertically within which all motion is detected. When a motion is detected, pre-selected lights are activated. The central plate is enamelled and made of rigid PC and ASA. Colour: enamelled dark brown

The sockets are equipped with screw terminals for clamping the wires. When fixing in a flush-mounting box screws should be used. 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate.

• Connection terminals: 4 connection terminals

• Maximum load bulb: 2300 W

• Maximum load 230V-halogen lamps: 2300 W

• Maximum load low voltage halogen lamps: 2300 VA

• Maximum load (non-compensated) fluorescent lamps: 1380 VA

• Light intensity range: 10 - 1000 lux

• Flush-mounting height: recommended from 0.8 to 1.2 m

• Minimum switch-off delay: 60 sec

• Maximum switch-off delay: 30 min

• Detection range (PIR): 8 to 9 m horizontal

• Detection angle horizontal: 180°

• Detection angle vertical: 60°

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Input voltage: 230 Vac ± 10 %, 50 Hz

• An external push button or switch can be connected to the device.

• You can also turn lighting on and off manually with the push button on the unit. After four hours the light switches off automatically.

• Minimum ambient temperature: -5 °C

• Maximum ambient temperature: +45 °C

• Protection degree: IP40

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

124-88000

**Specification text:**

Electronic thermostat, dark brown. This electronic analogue thermostat controls the central heating as well as the electric heating or air conditioning. There are 2 operational modes, heating and air conditioning, and 3 different status modes: on and day mode, eco and night mode and standby mode. The thermostat is designed for flush mounting into a wall or partition. With this thermostat, the temperature can be regulated from +5°C to +30°C. You can set a minimum and a maximum temperature so that, for example, the temperature can only be adjusted between +15°C and +25°C. The setting key has a scale indicating the temperature in steps of 5 °C. In the bottom left corner there is a 3-position switch indicating an off button, daytime setting (sun) and night-time setting (moon).

The central plate is enamelled and made of rigid PC and ASA. 5 connection terminals 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The sockets are equipped with screw terminals for clamping the wires. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate. When mounting in a flush-mounting box with grip surfaces, use claws that can be rotated open using screws with a slotted screwhead (slot 0.8 x 5 mm). The claws, which have a depth of engagement of 31 mm, turn back completely when loosened. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: enamelled dark brown

• Adjustment range: +5 °C to +30 °C

• Accuracy: +/- 1 °C

• Hysteresis: 1 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +50 °C

• Ambient temperature during storage and transport: -20 to +60 °C

• Protection degree: IP21 (designed for use in an environment with non-condensing humidity)

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

124-88001

**Specification text:**

Electronic thermostat, dark brown. This electronic analogue thermostat controls the central heating as well as the electric heating or air conditioning. There are 2 operational modes, heating and air conditioning, and 3 different status modes: on and day mode, eco and night mode and standby mode. The thermostat is designed for flush mounting into a wall or partition. With this thermostat, the temperature can be regulated from +5°C to +30°C. You can set a minimum and a maximum temperature so that, for example, the temperature can only be adjusted between +15°C and +25°C. The setting key has a scale indicating the temperature in steps of 5 °C. In the bottom left corner there is a 3-position switch indicating an off button, daytime setting (sun) and night-time setting (moon).

The central plate is enamelled and made of rigid PC and ASA. 5 connection terminals 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The sockets are equipped with screw terminals for clamping the wires. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate. When fixing in a flush-mounting box screws should be used. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: enamelled dark brown

• Adjustment range: +5 °C to +30 °C

• Accuracy: +/- 1 °C

• Hysteresis: 1 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +50 °C

• Ambient temperature during storage and transport: -20 to +60 °C

• Protection degree: IP21 (designed for use in an environment with non-condensing humidity)

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

124-88102

**Specification text:**

Digital clock thermostat with intelligent control and switching contact 1 A, 230 V for temperature control, dark brown for claw fixing. The digital clock thermostat with intelligent control is extremely well-suited for the regulation of central and electric heating. It has both day and week programmes and a permanent memory.

• operation reserve: after a power cut, the clock continues to operate for 30 min and the memory is permanently saved

• manual mode option

• max. 24 switchings can be set

• 3 types of temperature level: day, night and frost levels

• time or temperature display can be permanently set

• 6 control speeds depending of the size of the room (RP value) The central plate is enamelled and made of rigid PC and ASA. When mounting in a flush-mounting box with grip surfaces, use claws that can be rotated open using screws with a slotted screwhead (slot 0.8 x 5 mm). The claws, which have a depth of engagement of 31 mm, turn back completely when loosened. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: enamelled dark brown

• Accuracy: +/- 0.5 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +40 °C

• Ambient temperature during storage and transport: -25 to +75 °C

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

124-88103

**Specification text:**

Digital clock thermostat with intelligent control and switching contact 1 A, 230 V for temperature control, dark brown for screw fixing. The digital clock thermostat with intelligent control is extremely well-suited for the regulation of central and electric heating. It has both day and week programmes and a permanent memory.

• operation reserve: after a power cut, the clock continues to operate for 30 min and the memory is permanently saved

• manual mode option

• max. 24 switchings can be set

• 3 types of temperature level: day, night and frost levels

• time or temperature display can be permanently set

• 6 control speeds depending of the size of the room (RP value) The central plate is enamelled and made of rigid PC and ASA. When fixing in a flush-mounting box screws should be used. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: enamelled dark brown

• Accuracy: +/- 0.5 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +40 °C

• Ambient temperature during storage and transport: -25 to +75 °C

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

154-55511

**Specification text:**

Finishing set for indoor motion detector for Niko Home Control, white coated. The indoor motion detector consists of two parts: the sensor (100-55511) and the base (550-2021X). The bridge is mounted onto a standard flush-mounting box using screws. You can switch the lights on or off by pressing the button on the motion detector. The LED lights up when you activate the motion detector manually. To dismount simply pull the central plate off the base.

• Material central plate: The central plate is enamelled and made of rigid PC and ASA.

• Colour: enamelled white

• Impact resistance: After mounting, an impact-resistance of IK06 is guaranteed.

• The plastic parts of the central plate are self-extinguishing (comply with a filament test of 650°C) and are halogen-free.

• Input voltage: 26 Vdc (SELV, safety extra-low voltage)

• Minimum ambient temperature: -5 °C

• Maximum ambient temperature: +45 °C

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

154-78010

**Specification text:**

Wall motion detector 180°, 230 V, 9 m Finishing colour: white coated. The motion detector has a detection angle of 180° horizontally, and 60° vertically within which all motion is detected. When a motion is detected, pre-selected lights are activated. The central plate is enamelled and made of rigid PC and ASA. Colour: enamelled white

The sockets are equipped with screw terminals for clamping the wires. When mounting in a flush-mounting box with grip surfaces, use claws that can be rotated open using screws with a slotted screwhead (slot 0.8 x 5 mm). The claws, which have a depth of engagement of 31 mm, turn back completely when loosened. 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate.

• Connection terminals: 4 connection terminals

• Maximum load (non-compensated) fluorescent lamps: 500 VA

• Maximum load LED lamps: 230 W

• Light intensity range: 10 - 1000 lux

• Flush-mounting height: recommended from 0.8 to 1.2 m

• Detection range (PIR): 8 to 9 m horizontal

• Detection angle horizontal: 180°

• Detection angle vertical: 60°

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Input voltage: 230 Vac ± 10 %, 50 Hz

• An external push button or switch can be connected to the device.

• You can also turn lighting on and off manually with the push button on the unit. After four hours the light switches off automatically.

• Protection degree: IP40

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

154-78011

**Specification text:**

Indoor motion detector 180° with switching contact 10 A, 230 V, 8 m Finishing colour: white coated. The motion detector has a detection angle of 180° horizontally, and 60° vertically within which all motion is detected. When a motion is detected, pre-selected lights are activated. The central plate is enamelled and made of rigid PC and ASA. Colour: enamelled white

The sockets are equipped with screw terminals for clamping the wires. When fixing in a flush-mounting box screws should be used. 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate.

• Connection terminals: 4 connection terminals

• Maximum load bulb: 2300 W

• Maximum load 230V-halogen lamps: 2300 W

• Maximum load low voltage halogen lamps: 2300 VA

• Maximum load (non-compensated) fluorescent lamps: 1380 VA

• Light intensity range: 10 - 1000 lux

• Flush-mounting height: recommended from 0.8 to 1.2 m

• Minimum switch-off delay: 60 sec

• Maximum switch-off delay: 30 min

• Detection range (PIR): 8 to 9 m horizontal

• Detection angle horizontal: 180°

• Detection angle vertical: 60°

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Input voltage: 230 Vac ± 10 %, 50 Hz

• An external push button or switch can be connected to the device.

• You can also turn lighting on and off manually with the push button on the unit. After four hours the light switches off automatically.

• Minimum ambient temperature: -5 °C

• Maximum ambient temperature: +45 °C

• Protection degree: IP40

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

154-88000

**Specification text:**

Electronic thermostat, white coated. This electronic analogue thermostat controls the central heating as well as the electric heating or air conditioning. There are 2 operational modes, heating and air conditioning, and 3 different status modes: on and day mode, eco and night mode and standby mode. The thermostat is designed for flush mounting into a wall or partition. With this thermostat, the temperature can be regulated from +5°C to +30°C. You can set a minimum and a maximum temperature so that, for example, the temperature can only be adjusted between +15°C and +25°C. The setting key has a scale indicating the temperature in steps of 5 °C. In the bottom left corner there is a 3-position switch indicating an off button, daytime setting (sun) and night-time setting (moon).

The central plate is enamelled and made of rigid PC and ASA. 5 connection terminals 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The sockets are equipped with screw terminals for clamping the wires. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate. When mounting in a flush-mounting box with grip surfaces, use claws that can be rotated open using screws with a slotted screwhead (slot 0.8 x 5 mm). The claws, which have a depth of engagement of 31 mm, turn back completely when loosened. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: enamelled white

• Adjustment range: +5 °C to +30 °C

• Accuracy: +/- 1 °C

• Hysteresis: 1 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +50 °C

• Ambient temperature during storage and transport: -20 to +60 °C

• Protection degree: IP21 (designed for use in an environment with non-condensing humidity)

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

154-88001

**Specification text:**

Electronic thermostat, white coated. This electronic analogue thermostat controls the central heating as well as the electric heating or air conditioning. There are 2 operational modes, heating and air conditioning, and 3 different status modes: on and day mode, eco and night mode and standby mode. The thermostat is designed for flush mounting into a wall or partition. With this thermostat, the temperature can be regulated from +5°C to +30°C. You can set a minimum and a maximum temperature so that, for example, the temperature can only be adjusted between +15°C and +25°C. The setting key has a scale indicating the temperature in steps of 5 °C. In the bottom left corner there is a 3-position switch indicating an off button, daytime setting (sun) and night-time setting (moon).

The central plate is enamelled and made of rigid PC and ASA. 5 connection terminals 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The sockets are equipped with screw terminals for clamping the wires. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate. When fixing in a flush-mounting box screws should be used. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: enamelled white

• Adjustment range: +5 °C to +30 °C

• Accuracy: +/- 1 °C

• Hysteresis: 1 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +50 °C

• Ambient temperature during storage and transport: -20 to +60 °C

• Protection degree: IP21 (designed for use in an environment with non-condensing humidity)

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

154-88102

**Specification text:**

Digital clock thermostat with intelligent control and switching contact 1 A, 230 V for temperature control, white coated for claw fixing. The digital clock thermostat with intelligent control is extremely well-suited for the regulation of central and electric heating. It has both day and week programmes and a permanent memory.

• operation reserve: after a power cut, the clock continues to operate for 30 min and the memory is permanently saved

• manual mode option

• max. 24 switchings can be set

• 3 types of temperature level: day, night and frost levels

• time or temperature display can be permanently set

• 6 control speeds depending of the size of the room (RP value) The central plate is enamelled and made of rigid PC and ASA. When mounting in a flush-mounting box with grip surfaces, use claws that can be rotated open using screws with a slotted screwhead (slot 0.8 x 5 mm). The claws, which have a depth of engagement of 31 mm, turn back completely when loosened. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: enamelled white

• Accuracy: +/- 0.5 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +40 °C

• Ambient temperature during storage and transport: -25 to +75 °C

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

154-88103

**Specification text:**

Digital clock thermostat with intelligent control and switching contact 1 A, 230 V for temperature control, white coated for screw fixing. The digital clock thermostat with intelligent control is extremely well-suited for the regulation of central and electric heating. It has both day and week programmes and a permanent memory.

• operation reserve: after a power cut, the clock continues to operate for 30 min and the memory is permanently saved

• manual mode option

• max. 24 switchings can be set

• 3 types of temperature level: day, night and frost levels

• time or temperature display can be permanently set

• 6 control speeds depending of the size of the room (RP value) The central plate is enamelled and made of rigid PC and ASA. When fixing in a flush-mounting box screws should be used. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: enamelled white

• Accuracy: +/- 0.5 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +40 °C

• Ambient temperature during storage and transport: -25 to +75 °C

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

157-55511

**Specification text:**

Finishing set for indoor motion detector for Niko Home Control, champagne coated. The indoor motion detector consists of two parts: the sensor (100-55511) and the base (550-2021X). The bridge is mounted onto a standard flush-mounting box using screws. You can switch the lights on or off by pressing the button on the motion detector. The LED lights up when you activate the motion detector manually. To dismount simply pull the central plate off the base.

• Material central plate: The central plate is enamelled and made of rigid PC and ASA.

• Colour: enamelled champagne

• Impact resistance: After mounting, an impact-resistance of IK06 is guaranteed.

• The plastic parts of the central plate are self-extinguishing (comply with a filament test of 650°C) and are halogen-free.

• Input voltage: 26 Vdc (SELV, safety extra-low voltage)

• Minimum ambient temperature: -5 °C

• Maximum ambient temperature: +45 °C

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

157-78010

**Specification text:**

Wall motion detector 180°, 230 V, 9 m Finishing colour: champagne coated. The motion detector has a detection angle of 180° horizontally, and 60° vertically within which all motion is detected. When a motion is detected, pre-selected lights are activated. The central plate is enamelled and made of rigid PC and ASA. Colour: enamelled champagne

The sockets are equipped with screw terminals for clamping the wires. When mounting in a flush-mounting box with grip surfaces, use claws that can be rotated open using screws with a slotted screwhead (slot 0.8 x 5 mm). The claws, which have a depth of engagement of 31 mm, turn back completely when loosened. 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate.

• Connection terminals: 4 connection terminals

• Maximum load (non-compensated) fluorescent lamps: 500 VA

• Maximum load LED lamps: 230 W

• Light intensity range: 10 - 1000 lux

• Flush-mounting height: recommended from 0.8 to 1.2 m

• Detection range (PIR): 8 to 9 m horizontal

• Detection angle horizontal: 180°

• Detection angle vertical: 60°

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Input voltage: 230 Vac ± 10 %, 50 Hz

• An external push button or switch can be connected to the device.

• You can also turn lighting on and off manually with the push button on the unit. After four hours the light switches off automatically.

• Protection degree: IP40

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

157-78011

**Specification text:**

Indoor motion detector 180° with switching contact 10 A, 230 V, 8 m Finishing colour: champagne coated. The motion detector has a detection angle of 180° horizontally, and 60° vertically within which all motion is detected. When a motion is detected, pre-selected lights are activated. The central plate is enamelled and made of rigid PC and ASA. Colour: enamelled champagne

The sockets are equipped with screw terminals for clamping the wires. When fixing in a flush-mounting box screws should be used. 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate.

• Connection terminals: 4 connection terminals

• Maximum load bulb: 2300 W

• Maximum load 230V-halogen lamps: 2300 W

• Maximum load low voltage halogen lamps: 2300 VA

• Maximum load (non-compensated) fluorescent lamps: 1380 VA

• Light intensity range: 10 - 1000 lux

• Flush-mounting height: recommended from 0.8 to 1.2 m

• Minimum switch-off delay: 60 sec

• Maximum switch-off delay: 30 min

• Detection range (PIR): 8 to 9 m horizontal

• Detection angle horizontal: 180°

• Detection angle vertical: 60°

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Input voltage: 230 Vac ± 10 %, 50 Hz

• An external push button or switch can be connected to the device.

• You can also turn lighting on and off manually with the push button on the unit. After four hours the light switches off automatically.

• Minimum ambient temperature: -5 °C

• Maximum ambient temperature: +45 °C

• Protection degree: IP40

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

157-88000

**Specification text:**

Electronic thermostat, champagne coated. This electronic analogue thermostat controls the central heating as well as the electric heating or air conditioning. There are 2 operational modes, heating and air conditioning, and 3 different status modes: on and day mode, eco and night mode and standby mode. The thermostat is designed for flush mounting into a wall or partition. With this thermostat, the temperature can be regulated from +5°C to +30°C. You can set a minimum and a maximum temperature so that, for example, the temperature can only be adjusted between +15°C and +25°C. The setting key has a scale indicating the temperature in steps of 5 °C. In the bottom left corner there is a 3-position switch indicating an off button, daytime setting (sun) and night-time setting (moon).

The central plate is enamelled and made of rigid PC and ASA. 5 connection terminals 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The sockets are equipped with screw terminals for clamping the wires. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate. When mounting in a flush-mounting box with grip surfaces, use claws that can be rotated open using screws with a slotted screwhead (slot 0.8 x 5 mm). The claws, which have a depth of engagement of 31 mm, turn back completely when loosened. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: enamelled champagne

• Adjustment range: +5 °C to +30 °C

• Accuracy: +/- 1 °C

• Hysteresis: 1 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +50 °C

• Ambient temperature during storage and transport: -20 to +60 °C

• Protection degree: IP21 (designed for use in an environment with non-condensing humidity)

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

157-88001

**Specification text:**

Electronic thermostat, champagne coated. This electronic analogue thermostat controls the central heating as well as the electric heating or air conditioning. There are 2 operational modes, heating and air conditioning, and 3 different status modes: on and day mode, eco and night mode and standby mode. The thermostat is designed for flush mounting into a wall or partition. With this thermostat, the temperature can be regulated from +5°C to +30°C. You can set a minimum and a maximum temperature so that, for example, the temperature can only be adjusted between +15°C and +25°C. The setting key has a scale indicating the temperature in steps of 5 °C. In the bottom left corner there is a 3-position switch indicating an off button, daytime setting (sun) and night-time setting (moon).

The central plate is enamelled and made of rigid PC and ASA. 5 connection terminals 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The sockets are equipped with screw terminals for clamping the wires. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate. When fixing in a flush-mounting box screws should be used. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: enamelled champagne

• Adjustment range: +5 °C to +30 °C

• Accuracy: +/- 1 °C

• Hysteresis: 1 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +50 °C

• Ambient temperature during storage and transport: -20 to +60 °C

• Protection degree: IP21 (designed for use in an environment with non-condensing humidity)

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

157-88102

**Specification text:**

Digital clock thermostat with intelligent control and switching contact 1 A, 230 V for temperature control, champagne coated for claw fixing. The digital clock thermostat with intelligent control is extremely well-suited for the regulation of central and electric heating. It has both day and week programmes and a permanent memory.

• operation reserve: after a power cut, the clock continues to operate for 30 min and the memory is permanently saved

• manual mode option

• max. 24 switchings can be set

• 3 types of temperature level: day, night and frost levels

• time or temperature display can be permanently set

• 6 control speeds depending of the size of the room (RP value) The central plate is enamelled and made of rigid PC and ASA. When mounting in a flush-mounting box with grip surfaces, use claws that can be rotated open using screws with a slotted screwhead (slot 0.8 x 5 mm). The claws, which have a depth of engagement of 31 mm, turn back completely when loosened. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: enamelled champagne

• Accuracy: +/- 0.5 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +40 °C

• Ambient temperature during storage and transport: -25 to +75 °C

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

157-88103

**Specification text:**

Digital clock thermostat with intelligent control and switching contact 1 A, 230 V for temperature control, champagne coated for screw fixing. The digital clock thermostat with intelligent control is extremely well-suited for the regulation of central and electric heating. It has both day and week programmes and a permanent memory.

• operation reserve: after a power cut, the clock continues to operate for 30 min and the memory is permanently saved

• manual mode option

• max. 24 switchings can be set

• 3 types of temperature level: day, night and frost levels

• time or temperature display can be permanently set

• 6 control speeds depending of the size of the room (RP value) The central plate is enamelled and made of rigid PC and ASA. When fixing in a flush-mounting box screws should be used. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: enamelled champagne

• Accuracy: +/- 0.5 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +40 °C

• Ambient temperature during storage and transport: -25 to +75 °C

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

161-55511

**Specification text:**

Finishing set for indoor motion detector for Niko Home Control, black coated. The indoor motion detector consists of two parts: the sensor (100-55511) and the base (550-2021X). The bridge is mounted onto a standard flush-mounting box using screws. You can switch the lights on or off by pressing the button on the motion detector. The LED lights up when you activate the motion detector manually. To dismount simply pull the central plate off the base.

• Material central plate: The central plate is enamelled and made of rigid PC and ASA.

• Colour: enamelled black

• Impact resistance: After mounting, an impact-resistance of IK06 is guaranteed.

• The plastic parts of the central plate are self-extinguishing (comply with a filament test of 650°C) and are halogen-free.

• Input voltage: 26 Vdc (SELV, safety extra-low voltage)

• Minimum ambient temperature: -5 °C

• Maximum ambient temperature: +45 °C

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

161-78010

**Specification text:**

Wall motion detector 180°, 230 V, 9 m Finishing colour: black coated. The motion detector has a detection angle of 180° horizontally, and 60° vertically within which all motion is detected. When a motion is detected, pre-selected lights are activated. The central plate is enamelled and made of rigid PC and ASA. Colour: enamelled black

The sockets are equipped with screw terminals for clamping the wires. When mounting in a flush-mounting box with grip surfaces, use claws that can be rotated open using screws with a slotted screwhead (slot 0.8 x 5 mm). The claws, which have a depth of engagement of 31 mm, turn back completely when loosened. 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate.

• Connection terminals: 4 connection terminals

• Maximum load (non-compensated) fluorescent lamps: 500 VA

• Maximum load LED lamps: 230 W

• Light intensity range: 10 - 1000 lux

• Flush-mounting height: recommended from 0.8 to 1.2 m

• Detection range (PIR): 8 to 9 m horizontal

• Detection angle horizontal: 180°

• Detection angle vertical: 60°

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Input voltage: 230 Vac ± 10 %, 50 Hz

• An external push button or switch can be connected to the device.

• You can also turn lighting on and off manually with the push button on the unit. After four hours the light switches off automatically.

• Protection degree: IP40

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

161-78011

**Specification text:**

Indoor motion detector 180° with switching contact 10 A, 230 V, 8 m Finishing colour: black coated. The motion detector has a detection angle of 180° horizontally, and 60° vertically within which all motion is detected. When a motion is detected, pre-selected lights are activated. The central plate is enamelled and made of rigid PC and ASA. Colour: enamelled black

The sockets are equipped with screw terminals for clamping the wires. When fixing in a flush-mounting box screws should be used. 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate.

• Connection terminals: 4 connection terminals

• Maximum load bulb: 2300 W

• Maximum load 230V-halogen lamps: 2300 W

• Maximum load low voltage halogen lamps: 2300 VA

• Maximum load (non-compensated) fluorescent lamps: 1380 VA

• Light intensity range: 10 - 1000 lux

• Flush-mounting height: recommended from 0.8 to 1.2 m

• Minimum switch-off delay: 60 sec

• Maximum switch-off delay: 30 min

• Detection range (PIR): 8 to 9 m horizontal

• Detection angle horizontal: 180°

• Detection angle vertical: 60°

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Input voltage: 230 Vac ± 10 %, 50 Hz

• An external push button or switch can be connected to the device.

• You can also turn lighting on and off manually with the push button on the unit. After four hours the light switches off automatically.

• Minimum ambient temperature: -5 °C

• Maximum ambient temperature: +45 °C

• Protection degree: IP40

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

161-88000

**Specification text:**

Electronic thermostat, black coated. This electronic analogue thermostat controls the central heating as well as the electric heating or air conditioning. There are 2 operational modes, heating and air conditioning, and 3 different status modes: on and day mode, eco and night mode and standby mode. The thermostat is designed for flush mounting into a wall or partition. With this thermostat, the temperature can be regulated from +5°C to +30°C. You can set a minimum and a maximum temperature so that, for example, the temperature can only be adjusted between +15°C and +25°C. The setting key has a scale indicating the temperature in steps of 5 °C. In the bottom left corner there is a 3-position switch indicating an off button, daytime setting (sun) and night-time setting (moon).

The central plate is enamelled and made of rigid PC and ASA. 5 connection terminals 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The sockets are equipped with screw terminals for clamping the wires. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate. When mounting in a flush-mounting box with grip surfaces, use claws that can be rotated open using screws with a slotted screwhead (slot 0.8 x 5 mm). The claws, which have a depth of engagement of 31 mm, turn back completely when loosened. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: enamelled black

• Adjustment range: +5 °C to +30 °C

• Accuracy: +/- 1 °C

• Hysteresis: 1 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +50 °C

• Ambient temperature during storage and transport: -20 to +60 °C

• Protection degree: IP21 (designed for use in an environment with non-condensing humidity)

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

161-88001

**Specification text:**

Electronic thermostat, black coated. This electronic analogue thermostat controls the central heating as well as the electric heating or air conditioning. There are 2 operational modes, heating and air conditioning, and 3 different status modes: on and day mode, eco and night mode and standby mode. The thermostat is designed for flush mounting into a wall or partition. With this thermostat, the temperature can be regulated from +5°C to +30°C. You can set a minimum and a maximum temperature so that, for example, the temperature can only be adjusted between +15°C and +25°C. The setting key has a scale indicating the temperature in steps of 5 °C. In the bottom left corner there is a 3-position switch indicating an off button, daytime setting (sun) and night-time setting (moon).

The central plate is enamelled and made of rigid PC and ASA. 5 connection terminals 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The sockets are equipped with screw terminals for clamping the wires. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate. When fixing in a flush-mounting box screws should be used. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: enamelled black

• Adjustment range: +5 °C to +30 °C

• Accuracy: +/- 1 °C

• Hysteresis: 1 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +50 °C

• Ambient temperature during storage and transport: -20 to +60 °C

• Protection degree: IP21 (designed for use in an environment with non-condensing humidity)

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

161-88102

**Specification text:**

Digital clock thermostat with intelligent control and switching contact 1 A, 230 V for temperature control, black coated for claw fixing. The digital clock thermostat with intelligent control is extremely well-suited for the regulation of central and electric heating. It has both day and week programmes and a permanent memory.

• operation reserve: after a power cut, the clock continues to operate for 30 min and the memory is permanently saved

• manual mode option

• max. 24 switchings can be set

• 3 types of temperature level: day, night and frost levels

• time or temperature display can be permanently set

• 6 control speeds depending of the size of the room (RP value) The central plate is enamelled and made of rigid PC and ASA. When mounting in a flush-mounting box with grip surfaces, use claws that can be rotated open using screws with a slotted screwhead (slot 0.8 x 5 mm). The claws, which have a depth of engagement of 31 mm, turn back completely when loosened. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: enamelled black

• Accuracy: +/- 0.5 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +40 °C

• Ambient temperature during storage and transport: -25 to +75 °C

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

161-88103

**Specification text:**

Digital clock thermostat with intelligent control and switching contact 1 A, 230 V for temperature control, black coated for screw fixing. The digital clock thermostat with intelligent control is extremely well-suited for the regulation of central and electric heating. It has both day and week programmes and a permanent memory.

• operation reserve: after a power cut, the clock continues to operate for 30 min and the memory is permanently saved

• manual mode option

• max. 24 switchings can be set

• 3 types of temperature level: day, night and frost levels

• time or temperature display can be permanently set

• 6 control speeds depending of the size of the room (RP value) The central plate is enamelled and made of rigid PC and ASA. When fixing in a flush-mounting box screws should be used. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: enamelled black

• Accuracy: +/- 0.5 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +40 °C

• Ambient temperature during storage and transport: -25 to +75 °C

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

200-55511

**Specification text:**

Finishing set for indoor motion detector for Niko Home Control, Bakelite® piano black coated. The indoor motion detector consists of two parts: the sensor (100-55511) and the base (550-2021X). The bridge is mounted onto a standard flush-mounting box using screws. You can switch the lights on or off by pressing the button on the motion detector. The LED lights up when you activate the motion detector manually. To dismount simply pull the central plate off the base.

• Material central plate: The central plate is enamelled and made of rigid PC and ASA.

• Colour: Bakelite®-look piano black coated (approximately RAL9005). Bakelite® is a registered trademark of Hexion GmbH.

• Impact resistance: After mounting, an impact-resistance of IK06 is guaranteed.

• The plastic parts of the central plate are self-extinguishing (comply with a filament test of 650°C) and are halogen-free.

• Input voltage: 26 Vdc (SELV, safety extra-low voltage)

• Minimum ambient temperature: -5 °C

• Maximum ambient temperature: +45 °C

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

200-78010

**Specification text:**

Wall motion detector 180°, 230 V, 9 m Finishing colour: Bakelite® piano black coated. The motion detector has a detection angle of 180° horizontally, and 60° vertically within which all motion is detected. When a motion is detected, pre-selected lights are activated. The central plate is enamelled and made of rigid PC and ASA. Colour: Bakelite®-look piano black coated (approximately RAL9005). Bakelite® is a registered trademark of Hexion GmbH.

The sockets are equipped with screw terminals for clamping the wires. When mounting in a flush-mounting box with grip surfaces, use claws that can be rotated open using screws with a slotted screwhead (slot 0.8 x 5 mm). The claws, which have a depth of engagement of 31 mm, turn back completely when loosened. 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate.

• Connection terminals: 4 connection terminals

• Maximum load (non-compensated) fluorescent lamps: 500 VA

• Maximum load LED lamps: 230 W

• Light intensity range: 10 - 1000 lux

• Flush-mounting height: recommended from 0.8 to 1.2 m

• Detection range (PIR): 8 to 9 m horizontal

• Detection angle horizontal: 180°

• Detection angle vertical: 60°

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Input voltage: 230 Vac ± 10 %, 50 Hz

• An external push button or switch can be connected to the device.

• You can also turn lighting on and off manually with the push button on the unit. After four hours the light switches off automatically.

• Protection degree: IP40

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

200-78011

**Specification text:**

Indoor motion detector 180° with switching contact 10 A, 230 V, 8 m Finishing colour: Bakelite® piano black coated. The motion detector has a detection angle of 180° horizontally, and 60° vertically within which all motion is detected. When a motion is detected, pre-selected lights are activated. The central plate is enamelled and made of rigid PC and ASA. Colour: Bakelite®-look piano black coated (approximately RAL9005). Bakelite® is a registered trademark of Hexion GmbH.

The sockets are equipped with screw terminals for clamping the wires. When fixing in a flush-mounting box screws should be used. 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate.

• Connection terminals: 4 connection terminals

• Maximum load bulb: 2300 W

• Maximum load 230V-halogen lamps: 2300 W

• Maximum load low voltage halogen lamps: 2300 VA

• Maximum load (non-compensated) fluorescent lamps: 1380 VA

• Light intensity range: 10 - 1000 lux

• Flush-mounting height: recommended from 0.8 to 1.2 m

• Minimum switch-off delay: 60 sec

• Maximum switch-off delay: 30 min

• Detection range (PIR): 8 to 9 m horizontal

• Detection angle horizontal: 180°

• Detection angle vertical: 60°

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Input voltage: 230 Vac ± 10 %, 50 Hz

• An external push button or switch can be connected to the device.

• You can also turn lighting on and off manually with the push button on the unit. After four hours the light switches off automatically.

• Minimum ambient temperature: -5 °C

• Maximum ambient temperature: +45 °C

• Protection degree: IP40

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

200-88000

**Specification text:**

Electronic thermostat, Bakelite® piano black coated. This electronic analogue thermostat controls the central heating as well as the electric heating or air conditioning. There are 2 operational modes, heating and air conditioning, and 3 different status modes: on and day mode, eco and night mode and standby mode. The thermostat is designed for flush mounting into a wall or partition. With this thermostat, the temperature can be regulated from +5°C to +30°C. You can set a minimum and a maximum temperature so that, for example, the temperature can only be adjusted between +15°C and +25°C. The setting key has a scale indicating the temperature in steps of 5 °C. In the bottom left corner there is a 3-position switch indicating an off button, daytime setting (sun) and night-time setting (moon).

The central plate is enamelled and made of rigid PC and ASA. 5 connection terminals 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The sockets are equipped with screw terminals for clamping the wires. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate. When mounting in a flush-mounting box with grip surfaces, use claws that can be rotated open using screws with a slotted screwhead (slot 0.8 x 5 mm). The claws, which have a depth of engagement of 31 mm, turn back completely when loosened. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: Bakelite®-look piano black coated (approximately RAL9005). Bakelite® is a registered trademark of Hexion GmbH.

• Adjustment range: +5 °C to +30 °C

• Accuracy: +/- 1 °C

• Hysteresis: 1 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +50 °C

• Ambient temperature during storage and transport: -20 to +60 °C

• Protection degree: IP21 (designed for use in an environment with non-condensing humidity)

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

200-88001

**Specification text:**

Electronic thermostat, Bakelite® piano black coated. This electronic analogue thermostat controls the central heating as well as the electric heating or air conditioning. There are 2 operational modes, heating and air conditioning, and 3 different status modes: on and day mode, eco and night mode and standby mode. The thermostat is designed for flush mounting into a wall or partition. With this thermostat, the temperature can be regulated from +5°C to +30°C. You can set a minimum and a maximum temperature so that, for example, the temperature can only be adjusted between +15°C and +25°C. The setting key has a scale indicating the temperature in steps of 5 °C. In the bottom left corner there is a 3-position switch indicating an off button, daytime setting (sun) and night-time setting (moon).

The central plate is enamelled and made of rigid PC and ASA. 5 connection terminals 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The sockets are equipped with screw terminals for clamping the wires. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate. When fixing in a flush-mounting box screws should be used. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: Bakelite®-look piano black coated (approximately RAL9005). Bakelite® is a registered trademark of Hexion GmbH.

• Adjustment range: +5 °C to +30 °C

• Accuracy: +/- 1 °C

• Hysteresis: 1 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +50 °C

• Ambient temperature during storage and transport: -20 to +60 °C

• Protection degree: IP21 (designed for use in an environment with non-condensing humidity)

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

200-88102

**Specification text:**

Digital clock thermostat with intelligent control and switching contact 1 A, 230 V for temperature control, Bakelite® piano black coated for claw fixing. The digital clock thermostat with intelligent control is extremely well-suited for the regulation of central and electric heating. It has both day and week programmes and a permanent memory.

• operation reserve: after a power cut, the clock continues to operate for 30 min and the memory is permanently saved

• manual mode option

• max. 24 switchings can be set

• 3 types of temperature level: day, night and frost levels

• time or temperature display can be permanently set

• 6 control speeds depending of the size of the room (RP value) The central plate is enamelled and made of rigid PC and ASA. When mounting in a flush-mounting box with grip surfaces, use claws that can be rotated open using screws with a slotted screwhead (slot 0.8 x 5 mm). The claws, which have a depth of engagement of 31 mm, turn back completely when loosened. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: Bakelite®-look piano black coated (approximately RAL9005). Bakelite® is a registered trademark of Hexion GmbH.

• Accuracy: +/- 0.5 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +40 °C

• Ambient temperature during storage and transport: -25 to +75 °C

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

200-88103

**Specification text:**

Digital clock thermostat with intelligent control and switching contact 1 A, 230 V for temperature control, Bakelite® piano black coated for screw fixing. The digital clock thermostat with intelligent control is extremely well-suited for the regulation of central and electric heating. It has both day and week programmes and a permanent memory.

• operation reserve: after a power cut, the clock continues to operate for 30 min and the memory is permanently saved

• manual mode option

• max. 24 switchings can be set

• 3 types of temperature level: day, night and frost levels

• time or temperature display can be permanently set

• 6 control speeds depending of the size of the room (RP value) The central plate is enamelled and made of rigid PC and ASA. When fixing in a flush-mounting box screws should be used. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: Bakelite®-look piano black coated (approximately RAL9005). Bakelite® is a registered trademark of Hexion GmbH.

• Accuracy: +/- 0.5 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +40 °C

• Ambient temperature during storage and transport: -25 to +75 °C

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

201-55511

**Specification text:**

Finishing set for indoor motion detector for Niko Home Control, Bakelite® chocolate coated. The indoor motion detector consists of two parts: the sensor (100-55511) and the base (550-2021X). The bridge is mounted onto a standard flush-mounting box using screws. You can switch the lights on or off by pressing the button on the motion detector. The LED lights up when you activate the motion detector manually. To dismount simply pull the central plate off the base.

• Material central plate: The central plate is enamelled and made of rigid PC and ASA.

• Colour: Bakelite®-look chocolate coated (approximately RAL8019). Bakelite® is a registered trademark of Hexion GmbH.

• Impact resistance: After mounting, an impact-resistance of IK06 is guaranteed.

• The plastic parts of the central plate are self-extinguishing (comply with a filament test of 650°C) and are halogen-free.

• Input voltage: 26 Vdc (SELV, safety extra-low voltage)

• Minimum ambient temperature: -5 °C

• Maximum ambient temperature: +45 °C

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

201-78010

**Specification text:**

Wall motion detector 180°, 230 V, 9 m Finishing colour: Bakelite® chocolate coated. The motion detector has a detection angle of 180° horizontally, and 60° vertically within which all motion is detected. When a motion is detected, pre-selected lights are activated. The central plate is enamelled and made of rigid PC and ASA. Colour: Bakelite®-look chocolate coated (approximately RAL8019). Bakelite® is a registered trademark of Hexion GmbH.

The sockets are equipped with screw terminals for clamping the wires. When mounting in a flush-mounting box with grip surfaces, use claws that can be rotated open using screws with a slotted screwhead (slot 0.8 x 5 mm). The claws, which have a depth of engagement of 31 mm, turn back completely when loosened. 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate.

• Connection terminals: 4 connection terminals

• Maximum load (non-compensated) fluorescent lamps: 500 VA

• Maximum load LED lamps: 230 W

• Light intensity range: 10 - 1000 lux

• Flush-mounting height: recommended from 0.8 to 1.2 m

• Detection range (PIR): 8 to 9 m horizontal

• Detection angle horizontal: 180°

• Detection angle vertical: 60°

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Input voltage: 230 Vac ± 10 %, 50 Hz

• An external push button or switch can be connected to the device.

• You can also turn lighting on and off manually with the push button on the unit. After four hours the light switches off automatically.

• Protection degree: IP40

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

201-78011

**Specification text:**

Indoor motion detector 180° with switching contact 10 A, 230 V, 8 m Finishing colour: Bakelite® chocolate coated. The motion detector has a detection angle of 180° horizontally, and 60° vertically within which all motion is detected. When a motion is detected, pre-selected lights are activated. The central plate is enamelled and made of rigid PC and ASA. Colour: Bakelite®-look chocolate coated (approximately RAL8019). Bakelite® is a registered trademark of Hexion GmbH.

The sockets are equipped with screw terminals for clamping the wires. When fixing in a flush-mounting box screws should be used. 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate.

• Connection terminals: 4 connection terminals

• Maximum load bulb: 2300 W

• Maximum load 230V-halogen lamps: 2300 W

• Maximum load low voltage halogen lamps: 2300 VA

• Maximum load (non-compensated) fluorescent lamps: 1380 VA

• Light intensity range: 10 - 1000 lux

• Flush-mounting height: recommended from 0.8 to 1.2 m

• Minimum switch-off delay: 60 sec

• Maximum switch-off delay: 30 min

• Detection range (PIR): 8 to 9 m horizontal

• Detection angle horizontal: 180°

• Detection angle vertical: 60°

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Input voltage: 230 Vac ± 10 %, 50 Hz

• An external push button or switch can be connected to the device.

• You can also turn lighting on and off manually with the push button on the unit. After four hours the light switches off automatically.

• Minimum ambient temperature: -5 °C

• Maximum ambient temperature: +45 °C

• Protection degree: IP40

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

201-88000

**Specification text:**

Electronic thermostat, Bakelite® chocolate coated. This electronic analogue thermostat controls the central heating as well as the electric heating or air conditioning. There are 2 operational modes, heating and air conditioning, and 3 different status modes: on and day mode, eco and night mode and standby mode. The thermostat is designed for flush mounting into a wall or partition. With this thermostat, the temperature can be regulated from +5°C to +30°C. You can set a minimum and a maximum temperature so that, for example, the temperature can only be adjusted between +15°C and +25°C. The setting key has a scale indicating the temperature in steps of 5 °C. In the bottom left corner there is a 3-position switch indicating an off button, daytime setting (sun) and night-time setting (moon).

The central plate is enamelled and made of rigid PC and ASA. 5 connection terminals 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The sockets are equipped with screw terminals for clamping the wires. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate. When mounting in a flush-mounting box with grip surfaces, use claws that can be rotated open using screws with a slotted screwhead (slot 0.8 x 5 mm). The claws, which have a depth of engagement of 31 mm, turn back completely when loosened. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: Bakelite®-look chocolate coated (approximately RAL8019). Bakelite® is a registered trademark of Hexion GmbH.

• Adjustment range: +5 °C to +30 °C

• Accuracy: +/- 1 °C

• Hysteresis: 1 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +50 °C

• Ambient temperature during storage and transport: -20 to +60 °C

• Protection degree: IP21 (designed for use in an environment with non-condensing humidity)

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

201-88001

**Specification text:**

Electronic thermostat, Bakelite® chocolate coated. This electronic analogue thermostat controls the central heating as well as the electric heating or air conditioning. There are 2 operational modes, heating and air conditioning, and 3 different status modes: on and day mode, eco and night mode and standby mode. The thermostat is designed for flush mounting into a wall or partition. With this thermostat, the temperature can be regulated from +5°C to +30°C. You can set a minimum and a maximum temperature so that, for example, the temperature can only be adjusted between +15°C and +25°C. The setting key has a scale indicating the temperature in steps of 5 °C. In the bottom left corner there is a 3-position switch indicating an off button, daytime setting (sun) and night-time setting (moon).

The central plate is enamelled and made of rigid PC and ASA. 5 connection terminals 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The sockets are equipped with screw terminals for clamping the wires. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate. When fixing in a flush-mounting box screws should be used. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: Bakelite®-look chocolate coated (approximately RAL8019). Bakelite® is a registered trademark of Hexion GmbH.

• Adjustment range: +5 °C to +30 °C

• Accuracy: +/- 1 °C

• Hysteresis: 1 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +50 °C

• Ambient temperature during storage and transport: -20 to +60 °C

• Protection degree: IP21 (designed for use in an environment with non-condensing humidity)

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

201-88102

**Specification text:**

Digital clock thermostat with intelligent control and switching contact 1 A, 230 V for temperature control, Bakelite® chocolate coated for claw fixing. The digital clock thermostat with intelligent control is extremely well-suited for the regulation of central and electric heating. It has both day and week programmes and a permanent memory.

• operation reserve: after a power cut, the clock continues to operate for 30 min and the memory is permanently saved

• manual mode option

• max. 24 switchings can be set

• 3 types of temperature level: day, night and frost levels

• time or temperature display can be permanently set

• 6 control speeds depending of the size of the room (RP value) The central plate is enamelled and made of rigid PC and ASA. When mounting in a flush-mounting box with grip surfaces, use claws that can be rotated open using screws with a slotted screwhead (slot 0.8 x 5 mm). The claws, which have a depth of engagement of 31 mm, turn back completely when loosened. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: Bakelite®-look chocolate coated (approximately RAL8019). Bakelite® is a registered trademark of Hexion GmbH.

• Accuracy: +/- 0.5 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +40 °C

• Ambient temperature during storage and transport: -25 to +75 °C

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

201-88103

**Specification text:**

Digital clock thermostat with intelligent control and switching contact 1 A, 230 V for temperature control, Bakelite® chocolate coated for screw fixing. The digital clock thermostat with intelligent control is extremely well-suited for the regulation of central and electric heating. It has both day and week programmes and a permanent memory.

• operation reserve: after a power cut, the clock continues to operate for 30 min and the memory is permanently saved

• manual mode option

• max. 24 switchings can be set

• 3 types of temperature level: day, night and frost levels

• time or temperature display can be permanently set

• 6 control speeds depending of the size of the room (RP value) The central plate is enamelled and made of rigid PC and ASA. When fixing in a flush-mounting box screws should be used. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: Bakelite®-look chocolate coated (approximately RAL8019). Bakelite® is a registered trademark of Hexion GmbH.

• Accuracy: +/- 0.5 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +40 °C

• Ambient temperature during storage and transport: -25 to +75 °C

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

220-55511

**Specification text:**

Finishing set for indoor motion detector for Niko Home Control, alu grey coated. The indoor motion detector consists of two parts: the sensor (100-55511) and the base (550-2021X). The bridge is mounted onto a standard flush-mounting box using screws. You can switch the lights on or off by pressing the button on the motion detector. The LED lights up when you activate the motion detector manually. To dismount simply pull the central plate off the base.

• Material central plate: The central plate is enamelled and made of rigid PC and ASA.

• Colour: alu-look steel grey

• Impact resistance: After mounting, an impact-resistance of IK06 is guaranteed.

• The plastic parts of the central plate are self-extinguishing (comply with a filament test of 650°C) and are halogen-free.

• Input voltage: 26 Vdc (SELV, safety extra-low voltage)

• Minimum ambient temperature: -5 °C

• Maximum ambient temperature: +45 °C

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

220-78010

**Specification text:**

Wall motion detector 180°, 230 V, 9 m Finishing colour: alu grey coated. The motion detector has a detection angle of 180° horizontally, and 60° vertically within which all motion is detected. When a motion is detected, pre-selected lights are activated. The central plate is enamelled and made of rigid PC and ASA. Colour: alu-look steel grey

The sockets are equipped with screw terminals for clamping the wires. When mounting in a flush-mounting box with grip surfaces, use claws that can be rotated open using screws with a slotted screwhead (slot 0.8 x 5 mm). The claws, which have a depth of engagement of 31 mm, turn back completely when loosened. 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate.

• Connection terminals: 4 connection terminals

• Maximum load (non-compensated) fluorescent lamps: 500 VA

• Maximum load LED lamps: 230 W

• Light intensity range: 10 - 1000 lux

• Flush-mounting height: recommended from 0.8 to 1.2 m

• Detection range (PIR): 8 to 9 m horizontal

• Detection angle horizontal: 180°

• Detection angle vertical: 60°

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Input voltage: 230 Vac ± 10 %, 50 Hz

• An external push button or switch can be connected to the device.

• You can also turn lighting on and off manually with the push button on the unit. After four hours the light switches off automatically.

• Protection degree: IP40

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

220-88000

**Specification text:**

Electronic thermostat, alu grey coated. This electronic analogue thermostat controls the central heating as well as the electric heating or air conditioning. There are 2 operational modes, heating and air conditioning, and 3 different status modes: on and day mode, eco and night mode and standby mode. The thermostat is designed for flush mounting into a wall or partition. With this thermostat, the temperature can be regulated from +5°C to +30°C. You can set a minimum and a maximum temperature so that, for example, the temperature can only be adjusted between +15°C and +25°C. The setting key has a scale indicating the temperature in steps of 5 °C. In the bottom left corner there is a 3-position switch indicating an off button, daytime setting (sun) and night-time setting (moon).

The central plate is enamelled and made of rigid PC and ASA. 5 connection terminals 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The sockets are equipped with screw terminals for clamping the wires. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate. When mounting in a flush-mounting box with grip surfaces, use claws that can be rotated open using screws with a slotted screwhead (slot 0.8 x 5 mm). The claws, which have a depth of engagement of 31 mm, turn back completely when loosened. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: alu-look steel grey

• Adjustment range: +5 °C to +30 °C

• Accuracy: +/- 1 °C

• Hysteresis: 1 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +50 °C

• Ambient temperature during storage and transport: -20 to +60 °C

• Protection degree: IP21 (designed for use in an environment with non-condensing humidity)

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

220-88001

**Specification text:**

Electronic thermostat, alu grey coated. This electronic analogue thermostat controls the central heating as well as the electric heating or air conditioning. There are 2 operational modes, heating and air conditioning, and 3 different status modes: on and day mode, eco and night mode and standby mode. The thermostat is designed for flush mounting into a wall or partition. With this thermostat, the temperature can be regulated from +5°C to +30°C. You can set a minimum and a maximum temperature so that, for example, the temperature can only be adjusted between +15°C and +25°C. The setting key has a scale indicating the temperature in steps of 5 °C. In the bottom left corner there is a 3-position switch indicating an off button, daytime setting (sun) and night-time setting (moon).

The central plate is enamelled and made of rigid PC and ASA. 5 connection terminals 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The sockets are equipped with screw terminals for clamping the wires. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate. When fixing in a flush-mounting box screws should be used. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: alu-look steel grey

• Adjustment range: +5 °C to +30 °C

• Accuracy: +/- 1 °C

• Hysteresis: 1 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +50 °C

• Ambient temperature during storage and transport: -20 to +60 °C

• Protection degree: IP21 (designed for use in an environment with non-condensing humidity)

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

220-88102

**Specification text:**

Digital clock thermostat with intelligent control and switching contact 1 A, 230 V for temperature control, alu grey coated for claw fixing. The digital clock thermostat with intelligent control is extremely well-suited for the regulation of central and electric heating. It has both day and week programmes and a permanent memory.

• operation reserve: after a power cut, the clock continues to operate for 30 min and the memory is permanently saved

• manual mode option

• max. 24 switchings can be set

• 3 types of temperature level: day, night and frost levels

• time or temperature display can be permanently set

• 6 control speeds depending of the size of the room (RP value) The central plate is enamelled and made of rigid PC and ASA. When mounting in a flush-mounting box with grip surfaces, use claws that can be rotated open using screws with a slotted screwhead (slot 0.8 x 5 mm). The claws, which have a depth of engagement of 31 mm, turn back completely when loosened. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: alu-look steel grey

• Accuracy: +/- 0.5 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +40 °C

• Ambient temperature during storage and transport: -25 to +75 °C

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

220-88103

**Specification text:**

Digital clock thermostat with intelligent control and switching contact 1 A, 230 V for temperature control, alu grey coated for screw fixing. The digital clock thermostat with intelligent control is extremely well-suited for the regulation of central and electric heating. It has both day and week programmes and a permanent memory.

• operation reserve: after a power cut, the clock continues to operate for 30 min and the memory is permanently saved

• manual mode option

• max. 24 switchings can be set

• 3 types of temperature level: day, night and frost levels

• time or temperature display can be permanently set

• 6 control speeds depending of the size of the room (RP value) The central plate is enamelled and made of rigid PC and ASA. When fixing in a flush-mounting box screws should be used. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: alu-look steel grey

• Accuracy: +/- 0.5 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +40 °C

• Ambient temperature during storage and transport: -25 to +75 °C

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

221-55511

**Specification text:**

Finishing set for indoor motion detector for Niko Home Control, alu gold coated. The indoor motion detector consists of two parts: the sensor (100-55511) and the base (550-2021X). The bridge is mounted onto a standard flush-mounting box using screws. You can switch the lights on or off by pressing the button on the motion detector. The LED lights up when you activate the motion detector manually. To dismount simply pull the central plate off the base.

• Material central plate: The central plate is enamelled and made of rigid PC and ASA.

• Colour: alu-look gold

• Impact resistance: After mounting, an impact-resistance of IK06 is guaranteed.

• The plastic parts of the central plate are self-extinguishing (comply with a filament test of 650°C) and are halogen-free.

• Input voltage: 26 Vdc (SELV, safety extra-low voltage)

• Minimum ambient temperature: -5 °C

• Maximum ambient temperature: +45 °C

## **Tender Text – Specifications – Detectors**

**Product reference:**

221-78010

**Specification text:**

Wall motion detector 180°, 230 V, 9 m Finishing colour: alu gold coated. The motion detector has a detection angle of 180° horizontally, and 60° vertically within which all motion is detected. When a motion is detected, pre-selected lights are activated. The central plate is enamelled and made of rigid PC and ASA. Colour: alu-look gold

The sockets are equipped with screw terminals for clamping the wires. When mounting in a flush-mounting box with grip surfaces, use claws that can be rotated open using screws with a slotted screwhead (slot 0.8 x 5 mm). The claws, which have a depth of engagement of 31 mm, turn back completely when loosened. 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate.

• Connection terminals: 4 connection terminals

• Maximum load (non-compensated) fluorescent lamps: 500 VA

• Maximum load LED lamps: 230 W

• Light intensity range: 10 - 1000 lux

• Flush-mounting height: recommended from 0.8 to 1.2 m

• Detection range (PIR): 8 to 9 m horizontal

• Detection angle horizontal: 180°

• Detection angle vertical: 60°

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Input voltage: 230 Vac ± 10 %, 50 Hz

• An external push button or switch can be connected to the device.

• You can also turn lighting on and off manually with the push button on the unit. After four hours the light switches off automatically.

• Protection degree: IP40

## **Tender Text – Specifications – Detectors**

**Product reference:**

221-78011

**Specification text:**

Indoor motion detector 180° with switching contact 10 A, 230 V, 8 m Finishing colour: alu gold coated. The motion detector has a detection angle of 180° horizontally, and 60° vertically within which all motion is detected. When a motion is detected, pre-selected lights are activated. The central plate is enamelled and made of rigid PC and ASA. Colour: alu-look gold

The sockets are equipped with screw terminals for clamping the wires. When fixing in a flush-mounting box screws should be used. 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate.

• Connection terminals: 4 connection terminals

• Maximum load bulb: 2300 W

• Maximum load 230V-halogen lamps: 2300 W

• Maximum load low voltage halogen lamps: 2300 VA

• Maximum load (non-compensated) fluorescent lamps: 1380 VA

• Light intensity range: 10 - 1000 lux

• Flush-mounting height: recommended from 0.8 to 1.2 m

• Minimum switch-off delay: 60 sec

• Maximum switch-off delay: 30 min

• Detection range (PIR): 8 to 9 m horizontal

• Detection angle horizontal: 180°

• Detection angle vertical: 60°

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Input voltage: 230 Vac ± 10 %, 50 Hz

• An external push button or switch can be connected to the device.

• You can also turn lighting on and off manually with the push button on the unit. After four hours the light switches off automatically.

• Minimum ambient temperature: -5 °C

• Maximum ambient temperature: +45 °C

• Protection degree: IP40

## **Tender Text – Specifications – Detectors**

**Product reference:**

221-88000

**Specification text:**

Electronic thermostat, alu gold coated. This electronic analogue thermostat controls the central heating as well as the electric heating or air conditioning. There are 2 operational modes, heating and air conditioning, and 3 different status modes: on and day mode, eco and night mode and standby mode. The thermostat is designed for flush mounting into a wall or partition. With this thermostat, the temperature can be regulated from +5°C to +30°C. You can set a minimum and a maximum temperature so that, for example, the temperature can only be adjusted between +15°C and +25°C. The setting key has a scale indicating the temperature in steps of 5 °C. In the bottom left corner there is a 3-position switch indicating an off button, daytime setting (sun) and night-time setting (moon).

The central plate is enamelled and made of rigid PC and ASA. 5 connection terminals 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The sockets are equipped with screw terminals for clamping the wires. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate. When mounting in a flush-mounting box with grip surfaces, use claws that can be rotated open using screws with a slotted screwhead (slot 0.8 x 5 mm). The claws, which have a depth of engagement of 31 mm, turn back completely when loosened. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: alu-look gold

• Adjustment range: +5 °C to +30 °C

• Accuracy: +/- 1 °C

• Hysteresis: 1 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +50 °C

• Ambient temperature during storage and transport: -20 to +60 °C

• Protection degree: IP21 (designed for use in an environment with non-condensing humidity)

## **Tender Text – Specifications – Detectors**

**Product reference:**

221-88001

**Specification text:**

Electronic thermostat, alu gold coated. This electronic analogue thermostat controls the central heating as well as the electric heating or air conditioning. There are 2 operational modes, heating and air conditioning, and 3 different status modes: on and day mode, eco and night mode and standby mode. The thermostat is designed for flush mounting into a wall or partition. With this thermostat, the temperature can be regulated from +5°C to +30°C. You can set a minimum and a maximum temperature so that, for example, the temperature can only be adjusted between +15°C and +25°C. The setting key has a scale indicating the temperature in steps of 5 °C. In the bottom left corner there is a 3-position switch indicating an off button, daytime setting (sun) and night-time setting (moon).

The central plate is enamelled and made of rigid PC and ASA. 5 connection terminals 2 x 1.5 mm² or 1 x 2.5 mm² per connection terminal The sockets are equipped with screw terminals for clamping the wires. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate. When fixing in a flush-mounting box screws should be used. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: alu-look gold

• Adjustment range: +5 °C to +30 °C

• Accuracy: +/- 1 °C

• Hysteresis: 1 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +50 °C

• Ambient temperature during storage and transport: -20 to +60 °C

• Protection degree: IP21 (designed for use in an environment with non-condensing humidity)

## **Tender Text – Specifications – Detectors**

**Product reference:**

221-88102

**Specification text:**

Digital clock thermostat with intelligent control and switching contact 1 A, 230 V for temperature control, alu gold coated for claw fixing. The digital clock thermostat with intelligent control is extremely well-suited for the regulation of central and electric heating. It has both day and week programmes and a permanent memory.

• operation reserve: after a power cut, the clock continues to operate for 30 min and the memory is permanently saved

• manual mode option

• max. 24 switchings can be set

• 3 types of temperature level: day, night and frost levels

• time or temperature display can be permanently set

• 6 control speeds depending of the size of the room (RP value) The central plate is enamelled and made of rigid PC and ASA. When mounting in a flush-mounting box with grip surfaces, use claws that can be rotated open using screws with a slotted screwhead (slot 0.8 x 5 mm). The claws, which have a depth of engagement of 31 mm, turn back completely when loosened. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: alu-look gold

• Accuracy: +/- 0.5 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +40 °C

• Ambient temperature during storage and transport: -25 to +75 °C

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

221-88103

**Specification text:**

Digital clock thermostat with intelligent control and switching contact 1 A, 230 V for temperature control, alu gold coated for screw fixing. The digital clock thermostat with intelligent control is extremely well-suited for the regulation of central and electric heating. It has both day and week programmes and a permanent memory.

• operation reserve: after a power cut, the clock continues to operate for 30 min and the memory is permanently saved

• manual mode option

• max. 24 switchings can be set

• 3 types of temperature level: day, night and frost levels

• time or temperature display can be permanently set

• 6 control speeds depending of the size of the room (RP value) The central plate is enamelled and made of rigid PC and ASA. When fixing in a flush-mounting box screws should be used. The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed.

• Colour: alu-look gold

• Accuracy: +/- 0.5 °C

• Flush-mounting height: recommended at 1.5 m

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +40 °C

• Ambient temperature during storage and transport: -25 to +75 °C

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-10011

**Specification text:**

Photo cell with adjustable measuring range for indoor use , 24V,IP20 3-60 klux (white). To be used in combination with the daylight control modules 360-35010, 360-45010 or 360-45011.

• output signal: 0-10 V

• Input voltage: 24 Vdc ± 10 %

• Number of channels: 1 channel

• Light intensity range: 3 lux – 60000 lux

• Ambient temperature: -40 – 50 °C

• Mounting method: surface mounting

• Colour: white (RAL 9010)

• Protection degree: IP20

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-10012

**Specification text:**

Photo cell with adjustable measuring range for indoor use, 24 Vdc, 3 - 60 klux, (white). To be used in combination with the twilight switch 350-15011 and the daylight control module 360-35010.

• output signal: 0-10 V

• Input voltage: 24 Vdc ± 10 %

• Number of channels: 1 channel

• Light intensity range: 3 lux – 60000 lux

• Ambient temperature: -40 – 50 °C

• Mounting method: surface mounting

• Dimensions (HxWxD): 52 x 52 x 34,5 mm

• Protection degree: IP54

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-10030

**Specification text:**

Twilight switch, 230 V, one channel, 10 A, 2 - 200 lux, (white).

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Number of channels: 1 channel

• Light intensity range: 2 lux – 200 lux

• Ambient temperature: -50 – +50 °C

• Mounting method: surface mounting

• Relay contact 1: NO (max. µ10 A)

• Number of switches with a 16 A load: 6000

• Maximum load incandescent and halogen lamps (cosφ=1): 3000 W

• Maximum load low voltage halogen lamps: 500 W

• Maximum load economy lamps (CFLi): 350 W

• Maximum load LED lamps 230 V: 350 W

• Maximum load low-pressure sodium/mercury lamps: 1500 W

• Maximum capacitive load: 140 µF

• Maximum switching current: 165 A/20 ms – 800 A/200 µs

• Dimensions (HxWxD): 103 x 73 x 47 mm

• Protection degree: IP54

• Protection class: Class II device

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-10032

**Specification text:**

Twilight switch, 24 V, one channel, 4 A, 2 - 200 lux, (white). Twilight switch for outdoor wall-mounting. Suitable for switching outdoor lights. Large sensor surface for accurate light measuring. In compliance with the European directives for EMC and safety EN 60669-2-1. The detection area can be divided by means of an adjustable cover mask.

• Input voltage: 24 Vac/Vdc ± 10 %

• Number of channels: 1 channel

• Light intensity range: 2 lux – 200 lux

• Ambient temperature: -50 – 50 °C

• Mounting method: surface mounting

• Relay contact 1: NO (max. 4 A), potential-free

• Protection degree: IP54

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-10033

**Specification text:**

Twilight switch, 230 V, one channel, 16 A, 3 - 300 lux, (white).

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Number of channels: 1 channel

• Light intensity range: 3 lux – 300 lux

• Ambient temperature: -50 – +50 °C

• Mounting method: surface mounting

• Maximum load incandescent and halogen lamps (cosφ=1): 2300 W

• Maximum load low voltage halogen lamps: 500 W

• Maximum load economy lamps (CFLi): 350 W

• Maximum load LED lamps 230 V: 350 W

• Maximum capacitive load: 140 µF

• Maximum switching current: 165 A/20 ms – 800 A/200 µs

• Dimensions (HxWxD): 95 x 68 x 38 mm

• Protection degree: IP54

• Protection class: Class II device

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-20011

**Specification text:**

Motion detector with detection range of 6 m (white). Motion detector suitable for detecting motion at an angle of 90° in warehouse corridors or aisles. To be used in combination with the daylight control module 360-35010, 360-45010 or 360-45011 for lighting control. At a maximum mounting height of 8 m, the detection range covers a surface area of 9 m long by 1 m wide.

• Input voltage: 24 Vdc ± 10 %

• Number of channels: 1 channel

• Detection angle: 90 °

• Detection range (PIR): up to 16 m in diameter from a height of 8 m

• Ambient temperature: -20 – 50 °C

• Mounting method: surface mounting

• Mounting height: 2.5 – 8 m

• Relay contact 1: on/off (NPN transistor)

• Protection degree: IP20

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-20050

**Specification text:**

Outdoor motion detector, 180°, 230 V, 16 m, with orientable lens (white). The 180° outdoor motion detector with one channel to be surface mounted on a wall or partition is suitable for use on driveways or in gardens. Equipped with an integrated light sensor. Automatic on/off (after switch-off delay) or manual on/off via an NC push button. For surface mounting on a wall. The detector is fitted with a rotating sensor head. The detection area can be divided by means of an adjustable cover mask.

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Number of channels: 1 channel

• Light intensity range: 5 lux – , ∞

• Switch-off delay: 8 s – 30 min

• Detection angle: 180 °

• Detection range (PIR): up to 16 m in diameter from a height of 3 m

• Ambient temperature: -20 – 45 °C

• Mounting method: surface mounting

• Mounting height: 2 – 3 m

• Relay contact 1: NO. (max. µ10 A), light- and motion-sensitive

• Wire capacity: 3 x 1.5 mm² per connection terminal

• Maximum load incandescent and halogen lamps (cosφ=1): 2300 W

• Maximum load low voltage halogen lamps: 1200 W

• Maximum load economy lamps (CFLi): 350 W

• Maximum load LED lamps 230 V: 350 W

• Maximum capacitive load: 140 µF

• Maximum switching current: 80 A/20 ms

• Dimensions (HxWxD): 70 x 90 x 130 mm

• Protection degree: IP54

• Protection class: Class II device

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-20053

**Specification text:**

Absence detector 360°, with two channels, to switch lights on and off (white)

Replaced by 350-20078. Presence detector for use in classrooms and meeting rooms. Channel 1 switches the local lighting, and channel 2 switches the board lighting. Equipped with an integrated light sensor. Manual ON/OFF via N.O. 230 V AC push button. Automatic OFF after switch-off delay. The detection area can be divided by means of an adjustable cover mask.

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Number of channels: 2 channels

• Light intensity range: 10 lux – 1000 lux

• Switch-off delay: 1 min – 30 min

• Detection angle: 360 °

• Detection range (PIR): circle, up to 20 m in diameter from a height of 3 m

• Ambient temperature: -5 – 50 °C

• Mounting method: surface mounting

• Mounting height: 2.5 – 3 m

• Relay contact 1: NO. (max. 10 A), light- and motion-sensitive

• Relay contact 2: NO (max. 10 A), motion-sensitive

• Maximum load incandescent and halogen lamps (cosφ=1): 2300 W

• Maximum load fluorescent lamps (cosφ ≥ 0,5): 1150 VA

• Maximum load low voltage halogen lamps: 1150 W

• Maximum load economy lamps (CFLi): 350 W

• Maximum load LED lamps 230 V: 350 W

• Maximum capacitive load: 140 µF

• Maximum switching current: 80 A/20 ms

• Dimensions (HxWxD): 127 x 127 x 59 mm

• Protection degree: IP20

• Protection class: Class II device

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-20054

**Specification text:**

Motion detector, 360°, 230 V, 20 m, for surface mounting

(white). The presence detector is fitted with an integrated light sensor and can be turned on and off manually using a N.O. push button 230 V AC. Or automatic ON/OFF after switch-off delay. The detection area can be divided by means of an adjustable cover mask.

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Number of channels: 1 channel

• Light intensity range: 10 lux – 1000 lux

• Switch-off delay: 1 min – 30 min

• Detection angle: 360 °

• Detection range (PIR): circle, up to 20 m in diameter from a height of 3 m

• Ambient temperature: -5 – 50 °C

• Mounting method: surface mounting

• Mounting height: 2.5 – 3.4 m

• Relay contact 1: NO. (max. 10 A), light- and motion-sensitive

• Maximum load incandescent and halogen lamps (cosφ=1): 2300 W

• Maximum load low voltage halogen lamps: 500 W

• Maximum load economy lamps (CFLi): 350 W

• Maximum load LED lamps 230 V: 350 W

• Maximum capacitive load: 140 µF

• Maximum switching current: 165 A/20 ms – 800 A/200 µs

• Dimensions (HxWxD): 127 x 127 x 59 mm

• Protection degree: IP20

• Protection class: Class II device

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-20056

**Specification text:**

Presence or absence detector 10 A (230 V), 360°, one channel, to switch lights on and off (white). The presence detector is fitted with an integrated light sensor and can be turned on and off manually using a N.O. push button 230 V AC. Or automatic ON/OFF after switch-off delay.

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Number of channels: 1 channel

• Light intensity range: 30 lux – 2000 lux

• Switch-off delay: 5 s – 30 m

• Detection angle: 360 °

• Detection range (PIR): circle, 3.5 – 18 m

• Ambient temperature: -5 – 50 °C

• Mounting method: flush-mounting or surface-mounting

• Mounting height: 2,5 – 4 m

• Relay contact 1: NO. (max. 10 A), light- and motion-sensitive

• Maximum load incandescent and halogen lamps (cosφ=1): 2300 W

• Maximum load fluorescent lamps (cosφ ≥ 0,5): 1200 VA

• Maximum load low voltage halogen lamps: 1200 W

• Maximum load economy lamps (CFLi): 350 W

• Maximum load LED lamps 230 V: 350 W

• Maximum capacitive load: 140 µF

• Maximum switching current: 165 A/20 ms – 800 A/200 µs

• Dimensions (HxWxD): 90 x 90 x 56 mm

• Protection degree: IP20

• Protection class: Class II device

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-20057

**Specification text:**

This Niko remote control is used to set up the flush-mounting presence detector (350-20056) using infrared signals. With this device, the factory settings can be changed. The settings that can be changed include the daylight factor (lux value) and the time period during which the light remains on.

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-20058

**Specification text:**

Outdoor motion detector, 180°, 230 V, 16 m (white). The 180° outdoor motion detector with one channel to be surface mounted on a wall or partition is suitable for use on driveways or in gardens. Equipped with an integrated light sensor. Automatic on/off (after switch-off delay) or manual on/off via an NC push button. For surface mounting on a wall. The detection area can be divided by means of an adjustable cover mask.

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Number of channels: 1 channel

• Light intensity range: 5 lux – , ∞

• Switch-off delay: 8 s – 30 min

• Detection angle: 180 °

• Detection range (PIR): up to 16 m in diameter from a height of 3 m

• Ambient temperature: -20 – 45 °C

• Mounting method: surface mounting

• Mounting height: 2 – 3 m

• Wire capacity: 3 x 1.5 mm² per connection terminal

• Maximum load incandescent and halogen lamps (cosφ=1): 2300 W

• Maximum load low voltage halogen lamps: 1200 W

• Maximum load economy lamps (CFLi): 350 W

• Maximum load LED lamps 230 V: 350 W

• Maximum capacitive load: 140 µF

• Maximum switching current: 165 A/20 ms – 800 A/200 µs

• Dimensions (HxWxD): 125 x 72 x 63 mm

• Protection degree: IP54

• Protection class: Class II device

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-20065

**Specification text:**

Presence detector dual tech, 360°, 230 V, 19 m, master, for flush-mounting box (white). Intelligent presence detector suitable for ceiling mounting (flush- or surface-mounting) in offices, sanitary facilities, libraries, study rooms and other similar rooms where activities involving small movements are performed. Rapid detection, up to the slightest movements, by passive infrared (PIR) and ultrasonic (US) technology. Presence detection behind partial-height partitions by means of US detection. Automatically adjusts sensitivity according to the registered movements. The presence detector can be used with the factory settings, or the settings can be changed manually on the device itself or by means of the IR remote control. The device can be flush mounted using a standard flush-mounting box. For surface mounting on ceilings, the specially adapted surface-mounting box can be used. The detection area can be divided by means of an adjustable cover mask. Factory settings:

• light sensitivity: 100 lux

• switch-off delay: 15 min

• detection area (US sensor): 80%, ± 8 x 13 m

• detection method: PIR + US

• air flow sensitivity: off

• function: the presence detector is equipped with an integrated light sensor. The lighting is automatically switched on only when movement is registered in the room and when the measured daylight level is insufficient relative to the preset lux value. The lighting remains switched on as long as the presence detector registers activity in the detection area. If no movement is detected in the room, the lighting is automatically switched off after the switch-off delay has elapsed.

The light sensitivity, the switch-off delay, the detection area, the detection method and the air flow sensitivity can all be set using the potentiometers on the device:

• there are four preset values for the detection area: 2 x 3 m, 4 x 6 m, 6 x 7 m and 10 x 16 m.

• there are four detection methods: PIR/US, only PIR, only US and PIR + US.

• the air flow sensitivity can be switched completely on or off.

• there are four preset indicative values for the light sensitivity: 10 lux, 30 lux, 100 lux and 1000 lux.

• there are four preset times for the switch-off delay: 1 minute, 5 minutes, 15 minutes and 30 minutes.

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Number of channels: 1 channel

• Light intensity range: 10 lux – 2000 lux

• Switch-off delay: 1 m – 30 m

• Detection angle: 360 °

• Detection range (PIR): 9,5 m from a height of 3 m

• Detection range (US): 12 x 19 m

• Ambient temperature: 0 – 45 °C

• Mounting method: flush-mounting box

• Mounting height: 2 – 3 m

• Relay contact 1: NO (max. µ10 A), potential-free

• Maximum load incandescent and halogen lamps (cosφ=1): 2300 W

• Maximum load low voltage halogen lamps: 500 W

• Maximum load economy lamps (CFLi): 350 W

• Maximum load LED lamps 230 V: 350 W

• Maximum capacitive load: 140 µF

• Maximum switching current: 165 A/20 ms – 800 A/200 µs

• Dimensions (HxWxD): 120 x 120 x 60 mm

• Protection degree: IP20

• Protection class: Class I device

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-20066

**Specification text:**

Presence detector dual tech, 360°, 230 V, 19 m, slave, for flush-mounting box (white). The detector is suitable for ceiling mounting in offices. Rapid detection, up to the slightest movements, by passive infrared (PIR) and ultrasonic (US) detection. Presence detection behind office partitions by means of US detection. Automatically adjusts sensitivity according to the registered movements.

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Detection angle: 360 °

• Detection range (PIR): 9,5 m from a height of 3 m

• Detection range (US): 12 x 19 m

• Ambient temperature: 0 – 45 °C

• Mounting method: flush-mounting box

• Mounting height: 2 – 3 m

• Dimensions (HxWxD): 120 x 120 x 60 mm

• Protection degree: IP20

• Protection class: Class I device

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-20067

**Specification text:**

This Niko remote control unit is used to set up the flush-mounting presence detector (350-20065) using infrared signals. With this device, the factory settings can be changed. The settings that can be changed include the daylight factor (lux value), the time period during which the light remains on, the sensitivity of the ultrasonic sensor and the sensitivity to air currents, among others.

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-20070

**Specification text:**

Presence or absence detector, 10 A (230 V), 24 m, PIR 360° (230 V), master, one channel, for flush-mounting. (white). This detector with one channel for switching indoor lighting on and off is suitable for flush mounting in ceilings in small offices, large multi-use rooms (such as dressing rooms) and large warehouses. The detector is equipped with an integrated light sensor which switches off the lighting as soon as sufficient daylight is measured in the room. The detection area of the detector can be increased by connecting a maximum of ten slaves to the master. The flush-mounting detector can be used in combination with a flush-mounting box with spring terminals. The detector can be used with the factory settings, or the settings can be manually adjusted on the device. The detection area can be divided by means of an adjustable cover mask. Factory settings:

• sensitivity of the motion sensor: high

• application: presence detector, daylight-dependent, automatic on/off via PIR (as soon as the switch-off delay has elapsed)

• push button application: in the mode: ‘eco off’, the lighting can be switched off manually using an NO push button without having to wait for the switch-off delay. The lighting can also be switched on manually if the sensor has not yet registered any movement (such as a button outside the area). The lighting is only switched on if the amount of daylight available in the room is insufficient. Pressing and holding the push button switches the lighting on or off for two hours, irrespective of the detected movement and the registered light level. After that time, the detector resumes its normal operation.

• switch-off delay: 10 min

• light sensitivity: 200 lux

• function: the detector activates the lighting automatically if the motion sensor detects movement in the area and the light level is below the selected lux value. If the detector no longer detects any movement in the detection area, the lighting is automatically switched off after the switch-off delay, unless the user decides to manually switch off the lighting sooner.

The detector has two potentiometers and six DIP switches for manually adjusting the settings:

• potentiometer 1: setting the light sensitivity (20 lux up to light-independent)

• potentiometer 2: setting the switch-off delay (2 up to 60 minutes)

• the four DIP switches enable the selection of various functionalities: presence or absence detection, detection sensitivity, ‘eco off’ function, daylight-dependent or daylight-independent push button.

• using the two DIP switches, the sensitivity of the motion sensor can be increased or decreased. Setting via the remote control: The user can use the remote control to set up the detector entirely according to his requirements.

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Number of channels: 1 channel

• Light intensity range: 20 lux – 1000 lux, ∞

• Switch-off delay: 2 m – 1 h

• Detection angle: 360 °

• Detection range (PIR): up to 28 m in diameter from a height of 3 m

• Ambient temperature: -5 – 50 °C

• Mounting method: flush-mounting box

• Mounting height: 2 – 3,5 m

• Relay contact 1: NO. (max. 10 A), light- and motion-sensitive

• Maximum load incandescent and halogen lamps (cosφ=1): 2300 W

• Maximum load low voltage halogen lamps: 500 W

• Maximum load economy lamps (CFLi): 350 W

• Maximum load LED lamps 230 V: 350 W

• Maximum capacitive load: 140 µF

• Maximum switching current: 165 A/20 ms – 800 A/200 µs

• Dimensions (HxWxD): 100 x 100 x 73,4 mm

• Protection degree: IP54

• Protection class: Class I device

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-20071

**Specification text:**

Presence or absence detector, 10 A (230 V), 24 m, PIR 360° (230 V), slave, for flush-mounting. (white). The slave allows the detection area to be greatly increased. The flush-mounting slave can be used in combination with a flush-mounting box with spring terminals. The detector can be used with the factory settings, or the settings can be manually adjusted on the device. The detection area can be divided by means of an adjustable cover mask. Factory settings:

• sensitivity of the motion sensor: high

The detector has one potentiometer and two DIP switches for manually adjusting the settings:

• potentiometer 1: activation of the walking test

• using the two DIP switches, the sensitivity of the motion sensor can be increased or decreased.

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Detection angle: 360 °

• Detection range (PIR): up to 28 m in diameter from a height of 3 m

• Ambient temperature: -5 – 50 °C

• Mounting method: flush-mounting

• Mounting height: 2 – 3,5 m

• Dimensions (HxWxD): 100 x 100 x 83,4 mm

• Protection degree: IP54

• Protection class: Class I device

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-20072

**Specification text:**

Presence or absence detector, 10 A, PIR 360°, 230V, 24 m, master, two channels, for flush-mounting (white). The detector is suitable for the operation of indoor lighting or ventilation or … in small or large offices, warehouses .. The two channels can be set separately. The detector must have an on/off control with two channels (potential-free relay output), and inputs which can be overridden from a 230 V switch. It must be possible to override each relay output via a separate switch. The detection area can be divided by means of an adjustable cover mask. The detector is equipped with an integrated light sensor which switches off as soon as sufficient daylight is measured in the room. The detection area of the detector can be increased by connecting a maximum of 10 slaves to the master. The detector can be used with factory settings, the settings can be manually adjusted on the device or with a remote control. The lighting can be controlled in the following ways:

• presence or absence detector for channel 1

• presence or absence detector for channel 2

• short press of the push button to turn on or (Eco) off. This allows you to decide whether or not to wait for the switch-off delay. Long press to turn on/off during disconnection time + two hours

• pressing the push button briefly to switch on the lighting can be made both daylight-dependent and daylight-independent

• briefly pressing or holding down the push button to turn off the light can be blocked, so that no-one can turn off the light The detection area can be divided by means of an adjustable cover mask. Factory settings:

• sensitivity of the motion sensor: high

• application: presence detector, daylight-dependent, automatic on/off via PIR

• push-button application: in the mode: 'eco off', the lighting can be switched off manually with a short push on a NO push button without having to wait for the switch-off delay. The lighting can also be switched on manually with a short push on the push button. The lighting is only switched on. The lighting is only switched on if the amount of daylight available in the room is insufficient. Pressing and holding the push button switches the lighting on or off for two hours irrespective of the detected movement and the registered light level.

- switch-off delay both channels: 10 min

- light sensitivity both channels: 200 lux

The detector has four potentiometers and six DIP switches for manually adjusting the settings:

• potentiometer 1: setting the light sensitivity for channel 1 (20 lux up to light-independent)

• potentiometer 2: setting the switch-off delay for channel 1 (2 up to 60 minutes)

• potentiometer 3: setting the light sensitivity for channel 2 (20 lux to light-independent)

• potentiometer 4: setting the light sensitivity for channel 2 (2 to 60 minutes) For correct setting, the detector must have an LED indicator for setting of time and lux level The four DIP switches enable the selection of various functionalities: presence or absence detection, ‘eco off’ function, daylight-dependent or daylight-independent push button. Using the two DIP switches the sensitivity of the sensor can be increased or decreased (four levels of sensitivity). Setting via the remote control: the user can use the remote control to set up the detector entirely according to his requirements (absence, presence, lux levels, push button possibilities, switch-off delay, four levels of sensitivity ..)

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Number of channels: 2 channels

• Light intensity range: 20 lux – 1000 lux, ∞

• Switch-off delay: pulse, 2 m – 1 h

• Detection angle: 360 °

• Detection range (PIR): up to 28 m in diameter from a height of 3 m

• Ambient temperature: -5 – 50 °C

• Mounting method: flush-mounting

• Mounting height: 2 – 3,4 m

• Relay contact 1: NO (max. 10 A), potential-free, light- and motion-sensitive

• Relay contact 2: NO (max. 10 A), potential-free, light- and motion-sensitive

• Potential-free contact: NO, 230 V, µ10 A

• Maximum load incandescent and halogen lamps (cosφ=1): 2300 W

• Maximum load low voltage halogen lamps: 500 W

• Maximum load economy lamps (CFLi): 350 W

• Maximum load LED lamps 230 V: 350 W

• Maximum capacitive load: 140 µF

• Maximum switching current: 165 A/20 ms – 800 A/200 µs

• Dimensions (HxWxD): 100 x 100 x 136,4 mm

• Protection degree: IP54

• Protection class: Class I device

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-20078

**Specification text:**

Presence or absence detector, 10 A (230 V), 24 m, PIR 360° (230 V), master, one channel, for surface-mounting. (white). The detector is suitable for switching indoor lighting on and off in small offices, large multi-use rooms (such as dressing rooms) and large warehouses. The detector is equipped with an integrated light sensor which switches off the lighting as soon as sufficient daylight is measured in the room. The detection area of the detector can be increased by connecting a maximum of ten slaves to the master. The detector can be used with the factory settings, or the settings can be manually adjusted on the device. The detection area can be divided by means of an adjustable cover mask. Factory settings:

• sensitivity of the motion sensor: high

• application: presence detector, daylight-dependent, automatic on/off via PIR (as soon as the switch-off delay has elapsed)

• push-button application: in the mode: ‘eco off’, the lighting can be switched off manually using an NO push button without having to wait for the switch-off delay. The lighting can also be switched on manually if the sensor has not yet registered any movement (such as a button outside the area). The lighting is only switched on if the amount of daylight available in the room is insufficient. Pressing and holding the push button switches the lighting on or off for two hours, irrespective of the detected movement and the registered light level. After that time, the detector resumes its normal operation.

• switch-off delay: 10 min

• light sensitivity: 200 lux

• function: the detector activates the lighting automatically if the motion sensor detects movement in the area and the light level is below the selected lux value. If the detector no longer detects any movement in the detection area, the lighting is automatically switched off after the switch-off delay, unless the user decides to manually switch off the lighting sooner.

The detector has two potentiometers and six DIP switches for manually adjusting the settings:

• potentiometer 1: setting the light sensitivity (20 lux up to light-independent)

• potentiometer 2: setting the switch-off delay (2 up to 60 minutes)

• the four DIP switches enable the selection of various functionalities: presence or absence detection, detection sensitivity, ‘eco off’ function, daylight-dependent or daylight-independent push button.

• using the two DIP switches, the sensitivity of the motion sensor can be increased or decreased. Setting via the remote control: The user can use the remote control to set up the detector entirely according to his requirements.

• Detector technology: PIR

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Number of channels: 1 channel

• Light intensity range: 20 lux – 1000 lux, ∞

• Switch-off delay: pulse, 2 min – 1 h

• Detection angle: 360 °

• Detection range (PIR): up to 28 m in diameter from a height of 3 m

• Ambient temperature: -5 – 50 °C

• Mounting method: surface mounting

• Mounting height: 2 – 3.5 m

• Relay contact 1: NO (max. 10 A), potential-free, light- and motion-sensitive

• Maximum load incandescent and halogen lamps (cosφ=1): 2300 W

• Maximum load low voltage halogen lamps: 500 W

• Maximum load economy lamps (CFLi): 350 W

• Maximum load LED lamps 230 V: 350 W

• Maximum capacitive load: 140 µF

• Maximum switching current: 165 A/20 ms – 800 A/200 µs

• Dimensions (HxWxD): 117 x 117 x 64 mm

• Protection degree: IP54

• Protection class: Class I device

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-20079

**Specification text:**

Presence or absence detector,10 A, PIR 360°, 230 V, 24 m, slave, for surface-mounting. (white). The slave allows the detection area to be greatly increased. The detector can be used with the factory settings, or the settings can be manually adjusted on the device. The detection area can be divided by means of an adjustable cover mask. Factory settings:

• sensitivity: high.

The detector has one potentiometer and two DIP switches for manually adjusting the settings:

• potentiometer 1: activation of the walking test

• using the two DIP switches, the sensitivity of the motion sensor can be increased or decreased.

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Detection angle: 360 °

• Detection range (PIR): up to 28 m in diameter from a height of 3 m

• Ambient temperature: -5 – 50 °C

• Mounting method: surface mounting

• Mounting height: 2 – 3.4 m

• Dimensions (HxWxD): 117.3 x 117.3 x 64.1 mm

• Protection degree: IP54

• Protection class: Class I device

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-20080

**Specification text:**

Presence or absence detector, PIR 360°, 230V, 32 m, master, one channel, for surface-mounting on high ceilings. (white). The detector is suitable for switching indoor lighting in warehouses, factory halls, double-height reception rooms .. The detector is equipped with an integrated light sensor which switches off the lighting as soon as sufficient daylight is measured in the room. The detection area of the detector can be increased by connecting a maximum of ten slaves to the master. The detector can be used with the factory settings, or the settings can be manually adjusted on the device. The detection area can be divided by means of an adjustable cover mask. Factory settings:

• sensitivity of the motion sensor: high

• application: presence detector, daylight-dependent, automatic on/off via PIR (as soon as the switch-off delay has elapsed)

• push-button application: in the mode: ‘eco off’, the lighting can be switched off manually using an NO push button without having to wait for the switch-off delay. The lighting can also be switched on manually if the sensor has not yet registered any movement (such as a button outside the area). The lighting is only switched on if the amount of daylight available in the room is insufficient. Pressing and holding the push button switches the lighting on or off for two hours, irrespective of the detected movement and the registered light level. After that time, the detector resumes its normal operation.

• switch-off delay: 10 min

• light sensitivity: 200 lux

• function: the detector activates the lighting automatically if the motion sensor detects movement in the area and the light level is below the selected lux value. If the detector no longer detects any movement in the detection area or if there is sufficient daylight in the room, the lighting is automatically switched off after the switch-off delay, unless the user decides to manually switch off the lighting sooner.

The detector has two potentiometers and six DIP switches for manually adjusting the settings:

• potentiometer 1: setting the light sensitivity (20 lux up to light-independent)

• potentiometer 2: setting the switch-off delay (2 up to 60 minutes)

• the four DIP switches enable the selection of various functionalities: presence or absence detection, detection sensitivity, ‘eco off’ function, daylight-dependent or daylight-independent push button.

• using the two DIP switches, the sensitivity of the motion sensor can be increased or decreased. Setting via the remote control: The user can use the remote control to set up the switch-off delay, lux value and test mode entirely according to his requirements.

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Number of channels: 1 channel

• Light intensity range: 20 lux – 1000 lux, ∞

• Switch-off delay: pulse, 2 min – 1 h

• Detection angle: 360 °

• Detection range (PIR): circle, 16 – 32 m

• Ambient temperature: -5 – 50 °C

• Mounting method: surface mounting

• Mounting height: 4 – 8 m

• Relay contact 1: NO (max. 10 A), potential-free, light- and motion-sensitive

• Wire capacity: 3 x 2.5 mm² per connection terminal

• Maximum load incandescent and halogen lamps (cosφ=1): 2300 W

• Maximum load low voltage halogen lamps: 500 W

• Maximum load economy lamps (CFLi): 350 W

• Maximum load LED lamps 230 V: 350 W

• Maximum capacitive load: 140 µF

• Maximum switching current: 165 A/20 ms – 800 A/200 µs

• Dimensions (HxWxD): 117 x 117 x 64,1 mm

• Protection degree: IP54

• Protection class: Class I device

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-20081

**Specification text:**

Presence or absence detector, 360°, 230 V, 32 m, slave, for surface-mounting on high ceilings (white). The slave allows the detection area to be greatly increased. The detector can be used with the factory settings, or the settings can be manually adjusted on the device. The detection area can be divided by means of an adjustable cover mask. Factory settings:

• sensitivity: high.

The detector has one potentiometer and two DIP switches for manually adjusting the settings:

• potentiometer 1: activation of the walking test

• using the two DIP switches, the sensitivity of the motion sensor can be increased or decreased.

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Detection angle: 360 °

• Detection range (PIR): circle, 16 – 32 m

• Ambient temperature: -5 – 50 °C

• Mounting method: surface mounting

• Mounting height: 4 – 8 m

• Wire capacity: 3 x 2.5 mm² per connection terminal

• Dimensions (HxWxD): 117 x 117 x 64,1 mm

• Protection degree: IP54

• Protection class: Class I device

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-20082

**Specification text:**

Presence or absence detector, PIR 360°, 230V, 24 m, master, 2 channels, for surface-mounting. (white). The detector is suitable for operating indoor lighting or ventilation or … in small or large offices, warehouses .. The two channels can be set separately. The detector must have an on/off control with two channels (potential-free relay output), and inputs which can be overridden from a 230 V switch. It must be possible to override each relay output via a separate switch. The detection area can be divided by means of an adjustable cover mask. The detector is equipped with an integrated light sensor which switches off as soon as sufficient daylight is measured in the room. The detection area of the detector can be increased by connecting a maximum of 10 slaves to the master. The detector can be used with factory settings, the settings can be manually adjusted on the device or with a remote control. The lighting can be controlled in the following ways:

• presence or absence detector for channel 1

• presence or absence detector for channel 2

• short press of the push button to turn on or (Eco) off. This allows you to decide whether or not to wait for the switch-off delay. Long press to turn on/off during disconnection time + two hours

• pressing the push button briefly to switch on the lighting can be made both daylight-dependent and daylight-independent

• briefly pressing or holding down the push button to turn off the light can be blocked, so that no-one can turn off the light The detection area can be divided by means of an adjustable cover mask. Factory settings:

• sensitivity of the motion sensor: high

• application: presence detector, daylight-dependent, automatic on/off via PIR

• push-button application: the lighting can be switched off manually with a short push on a NO push button without having to wait for the switch-off delay (mode: 'eco off'). The lighting can also be switched on manually with a short push on the push button. The lighting is only switched on. The lighting is only switched on if the amount of daylight available in the room is insufficient. Pressing and holding the push button switches the lighting on or off for two hours irrespective of the detected movement and the registered light level.

• switch-off delay both channels: 10 min

• light sensitivity both channels: 200 lux

The detector has four potentiometers and six DIP switches for manually adjusting the settings:

• potentiometer 1: setting the light sensitivity for channel 1 (20 lux up to light-independent)

• potentiometer 2: setting the switch-off delay for channel 1 (2 up to 60 minutes)

• potentiometer 3: setting the light sensitivity for channel 2 (20 lux to light-independent)

• Potentiometer 4: setting the switch-off delay for channel 2 (2 to 60 minutes)

For correct setting, the detector must have an LED indicator for setting of time and lux level The four DIP switches enable the selection of various functionalities: presence or absence detection, ‘eco off’ function, daylight-dependent or daylight-independent push button. Using the two DIP switches the sensitivity of the sensor can be increased or decreased (four levels of sensitivity). Setting via the remote control: the user can use the remote control to set up the detector entirely according to his requirements (absence, presence, lux levels, push button possibilities, switch-off delay, four levels of sensitivity ..)

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Number of channels: 2 channels

• Light intensity range: 20 lux – 1000 lux

• Switch-off delay: 2 min – 1 h, ∞

• Detection angle: 360 °

• Detection range (PIR): up to 28 m in diameter from a height of 3 m

• Ambient temperature: -5 – 50 °C

• Mounting method: surface mounting

• Mounting height: 2 – 3.5 m

• Relay contact 1: NO (max. 10 A), potential-free, light- and motion-sensitive

• Wire capacity: 3 x 2.5 mm² per connection terminal

• Maximum load incandescent and halogen lamps (cosφ=1): 2300 W

• Maximum load low voltage halogen lamps: 1200 W

• Maximum load economy lamps (CFLi): 350 W

• Maximum load LED lamps 230 V: 350 W

• Maximum capacitive load: 140 µF

• Maximum switching current: 165 A/20 ms – 800 A/200 µs

• Dimensions (HxWxD): 117.3 x 117.3 x 64.1 mm

• Protection degree: IP54

• Protection class: Class I device

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-20085

**Specification text:**

Mini presence detector, 360°, 230 V, 9 m, for flush mounting, IP65

 (white). The detector has one channel for switching indoor lighting on and off and is suitable for flush mounting in ceilings in small offices, sanitary facilities, garages, storage areas … The mini detector is equipped with an integrated light sensor which switches off the lighting as soon as sufficient daylight is measured in the room. The flush-mounting mini detector (IP65) can be used with the factory settings, or the settings can be adjusted with the IR remote control. When several mini detectors are used, the settings of one mini detector are automatically copied to the other mini detectors by the IR remote control. The detection area can be divided by means of an adjustable cover mask. Factory settings:

• application: presence detector, daylight-dependent, automatic on/off via PIR

• push-button application: in the mode: ‘eco off’, the lighting can be switched off manually using an NO push button without having to wait for the switch-off delay. The lighting can also be switched on manually if the sensor has not yet registered any movement (such as a button outside the area). The lighting is only switched on if the amount of daylight available in the room is insufficient. Pressing and holding the push button switches the lighting on or off throughout the duration of the switch-off delay + two hours. After that time, the mini detector resumes its normal operation. Pressing and holding is daylight-independent.

• switch-off delay: 5 min

• light sensitivity: 100 lux

• function: the mini detector activates the lighting automatically if the motion sensor detects movement in the area and the light level is below the selected lux value. After the last motion is detected, the lighting remains switched on for the duration of the preset switch-off delay. As soon as the switch-off delay has elapsed, the lighting switches off. The lighting also switches off automatically as soon as the daylight level is sufficiently high, even when motion is still detected in the room at that time. The lighting can also be manually switched off using a push button. The mini detector can be set to operate with customised settings using the (optional) IR remote control.

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Number of channels: 1 channel

• Light intensity range: 20 lux – 1000 lux

• Switch-off delay: pulse, 2 m – 1 h

• Detection angle: 360 °

• Detection range (PIR): 9,5 m from a height of 3 m

• Ambient temperature: -5 – 50 °C

• Mounting method: flush-mounting

• Drill diameter: 30 mm

• Mounting height: 2 – 3 m

• Relay contact 1: NO. (max. µ10 A), light- and motion-sensitive

• Maximum load incandescent and halogen lamps (cosφ=1): 2300 W

• Maximum load low voltage halogen lamps: 500 W

• Maximum load economy lamps (CFLi): 350 W

• Maximum load LED lamps 230 V: 350 W

• Maximum capacitive load: 140 µF

• Maximum switching current: 165 A/20 ms – 800 A/200 µs

• Dimensions (HxWxD): 36 x 36 x 49,3 mm

• Protection degree: IP65

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-20089

**Specification text:**

This Niko remote control is used for setting the presence or absence detectors (360°, 230 V, master) with one channel for flush mounting (350-20070) and for surface mounting (350-20078) via infrared transmission. The factory settings can be changed with the remote control. The settings that can be changed include the daylight factor (lux value) and the time period during which the lighting remains on.

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-20090

**Specification text:**

This Niko remote control is used for setting the mini presence or mini absence detector (360°, 230 V) with one channel for flush mounting (350-20085) via infrared transmission. The factory settings can be changed with the remote control. The settings that can be changed include the daylight factor (lux value) and the time period during which the lighting remains on.

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-20150

**Specification text:**

Outdoor motion detector, 180°, 230 V, 13 m, with orientable lens,

 (black). The 180° outdoor motion detector with one channel to be surface mounted on a wall or partition is suitable for use on driveways or in gardens. Equipped with an integrated light sensor. Automatic on/off (after switch-off delay) or manual on/off via an NC push button. For surface mounting on a wall. The detector is fitted with a rotating sensor head. The detection area can be divided by means of an adjustable cover mask.

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Number of channels: 1 channel

• Light intensity range: 5 lux – , ∞

• Switch-off delay: 8 s – 30 min

• Detection angle: 180 °

• Detection range (PIR): up to 13 m in diameter from a height of 3 m

• Ambient temperature: -20 – 45 °C

• Mounting method: surface mounting

• Mounting height: 2 – 3 m

• Relay contact 1: NO. (max. µ10 A), light- and motion-sensitive

• Wire capacity: 3 x 1.5 mm² per connection terminal

• Maximum load incandescent and halogen lamps (cosφ=1): 2300 W

• Maximum load low voltage halogen lamps: 1200 W

• Maximum load economy lamps (CFLi): 350 W

• Maximum load LED lamps 230 V: 350 W

• Maximum capacitive load: 140 µF

• Maximum switching current: 165 A/20 ms – 800 A/200 µs

• Dimensions (HxWxD): 70 x 90 x 130 mm

• Protection degree: IP54

• Protection class: Class II device

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-20158

**Specification text:**

Outdoor motion detector, 180°, 230 V, 13 m (black). The 180° outdoor motion detector with one channel to be surface mounted on a wall or partition is suitable for use on driveways or in gardens. Equipped with an integrated light sensor. Automatic on/off (after switch-off delay) or manual on/off via an NC push button. For surface mounting on a wall. The detection area can be divided by means of an adjustable cover mask.

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Number of channels: 1 channel

• Light intensity range: 5 lux – , ∞

• Switch-off delay: 8 s – 30 min

• Detection angle: 180 °

• Detection range (PIR): up to 13 m in diameter from a height of 3 m

• Ambient temperature: -20 – 45 °C

• Mounting method: surface mounting

• Mounting height: 2 – 3 m

• Relay contact 1: NO. (max. 10 A), light-sensitive

• Wire capacity: 3 x 1.5 mm² per connection terminal

• Maximum load incandescent and halogen lamps (cosφ=1): 2300 W

• Maximum load low voltage halogen lamps: 1200 W

• Maximum load economy lamps (CFLi): 350 W

• Maximum load LED lamps 230 V: 350 W

• Maximum capacitive load: 140 µF

• Maximum switching current: 165 A/20 ms – 800 A/200 µs

• Dimensions (HxWxD): 125 x 72 x 63 mm

• Protection degree: IP54

• Protection class: Class II device

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-30010

**Specification text:**

90° Motion detector with detection range of 22 m, for outdoor use (white). Indoor motion detector with built-in light sensor. Suited to motion detection at an angle of 90°, at a distance of between 0.5 m and 15 m. To be used in combination with the daylight control module 360-35010 for lighting control.

• Input voltage: 24 Vdc ± 10 %

• Number of channels: 1 channel

• Detection angle: 90 °

• Detection range (PIR): up to 15 m in diameter from a height of 2,5 m

• Ambient temperature: -20 – 50 °C

• Mounting method: surface mounting

• Mounting height: 2 – 3 m

• Relay contact 1: on/off (NPN transistor)

• Protection degree: IP20

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-41279

**Specification text:**

Motion detector, 90°, 24 V, 22 m, with potential-free contact (Finishing colour: white).

• Input voltage: 24 Vac/Vdc ± 10 %

• Maximum power consumption: 5 W

• Number of channels: 1 channel

• Switch-off delay: 2 s – 30 min

• Detection angle: 90 °

• Detection range (PIR): circle, 22 m

• Ambient temperature: -20 – 50 °C

• Mounting method: surface mounting

• Mounting height: 3 m

• Relay contact 1: on/off (NPN transistor)

• Protection degree: IP20

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-41549

**Specification text:**

Motion detector 360° with potential-free contact, for surface-mounting (Finishing colour: white).

• Input voltage: 24 Vac/Vdc ± 10 %

• Number of channels: 1 channel

• Switch-off delay: 30 s – 1 h

• Detection angle: 360 °

• Detection range (PIR): up to 8 m in diameter from a height of 2 m

• Ambient temperature: -5 – 50 °C

• Mounting method: surface mounting

• Mounting height: 2.5 – 4 m

• Dimensions (HxWxD): 80 x 80 x 30.6 mm

• Protection degree: IP20

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-41600

**Specification text:**

Flat presence or absence detector 360°, master, 1 channel, 12 m, for flush-mounting (white).

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Number of channels: 1 channel

• Light intensity range: 100 lux – 1000 lux

• Switch-off delay: 5 m – 1 h

• Detection angle: 360 °

• Detection range (PIR): up to 12 m in diameter from a height of 3 m

• Ambient temperature: 5 – 40 °C

• Mounting method: flush-mounting

• Drill diameter: 77 mm

• Mounting height: 2,4 – 3 m

• Relay contact 1: NO. (max. 10 A)

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Maximum load incandescent and halogen lamps (cosφ=1): 2300 W

• Maximum load low voltage halogen lamps: 500 W

• Maximum load economy lamps (CFLi): 350 W

• Maximum load LED lamps 230 V: 350 W

• Maximum capacitive load: 140 µF

• Maximum switching current: 165 A/20 ms – 800 A/200 µs

• Dimensions (HxWxD): 95 x 95 x 95 mm

• Protection degree: IP20

• Protection class: Class I detector, class II devices

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-41601

**Specification text:**

Flat presence or absence detector, 360°, slave, 1 channel, 12 m, for flush-mounting (white).

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Number of channels: 1 channel

• Detection angle: 360 °

• Detection range (PIR): up to 12 m in diameter from a height of 3 m

• Ambient temperature: 5 – 40 °C

• Mounting method: flush-mounting

• Drill diameter: 77 mm

• Mounting height: 2,4 – 3 m

• Dimensions (HxWxD): 95 x 95 x 95 mm

• Protection degree: IP20

• Protection class: Class I detector, class II devices

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-41620

**Specification text:**

Flat presence or absence detector 360°, master, with 2 potential-free contacts, 12 m, for flush-mounting (white).

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Number of channels: 2 channels

• Light intensity range: 50 lux – 1000 lux

• Switch-off delay: 5 m – 30 m

• Detection angle: 360 °

• Detection range (PIR): up to 12 m in diameter from a height of 3 m

• Ambient temperature: 5 – 40 °C

• Mounting method: flush-mounting

• Drill diameter: 77 mm

• Mounting height: 2,4 – 3 m

• Relay contact 1: NO (max. 10 A), potential-free

• Relay contact 2: NO (max. 10 A), potential-free

• Maximum load incandescent and halogen lamps (cosφ=1): 2300 W

• Maximum load low voltage halogen lamps: 1200 W

• Maximum load economy lamps (CFLi): 350 W

• Maximum load LED lamps 230 V: 350 W

• Maximum capacitive load: 140 µF

• Maximum switching current: 165 A/20 ms – 800 A/200 µs

• Dimensions (HxWxD): 95 x 95 x 95 mm

• Protection degree: IP20

• Protection class: Class I detector, class II devices

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-41650

**Specification text:**

Flat presence or absence detector with 3 zone DALI daylight control and extra functionalities, 360°,12 m, master or stand-alone, for flush mounting. IP20

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Light intensity range: 100 lux – 1000 lux

• Switch-off delay: 5 m – , ∞

• Detection angle: 360 °

• Detection range (PIR): up to 12 m in diameter from a height of 3 m

• Ambient temperature: 5 – 40 °C

• Mounting method: flush-mounting

• Drill diameter: 77 mm

• Mounting height: 2,4 – 3 m

• Relay contact 1: NO (max. µ10 A), potential-free

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Maximum load incandescent and halogen lamps (cosφ=1): 2300 W

• Maximum load low voltage halogen lamps: 500 W

• Maximum load economy lamps (CFLi): 350 W

• Maximum load LED lamps 230 V: 350 W

• Maximum load LED driver: 500 VA

• Maximum load electronic transformer: 500 VA

• Maximum capacitive load: 140 µF

• Maximum switching current: 165 A/20 ms – 800 A/200 µs

• Dimensions (HxWxD): 95 x 95 x 95 mm

• Protection degree: IP20

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-41657

**Specification text:**

Flat presence or absence detector with 3 zone DALI daylight control, 360°, 12 m, master, for flush mounting (white).

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Light intensity range: 100 lux – 1000 lux

• Switch-off delay: 5 m – , ∞

• Detection angle: 360 °

• Detection range (PIR): up to 12 m in diameter from a height of 3 m

• Ambient temperature: 5 – 40 °C

• Mounting method: flush-mounting

• Drill diameter: 77 mm

• Mounting height: 2,4 – 3 m

• Dimensions (HxWxD): 95 x 95 x 95 mm

• Protection degree: IP20

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-41659

**Specification text:**

Flat presence or absence detector with 3 zone DALI daylight control, 360°, 12 m, slave, for flush mounting, (white).

• Input voltage: via DALI bus

• Detection angle: 360 °

• Detection range (PIR): up to 12 m in diameter from a height of 3 m

• Ambient temperature: 5 – 40 °C

• Mounting method: flush-mounting

• Drill diameter: 77 mm

• Mounting height: 2,4 – 3 m

• Dimensions (HxWxD): 95 x 95 x 95 mm

• Protection degree: IP20

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-41680

**Specification text:**

Flat presence or absence detector with 3 zone DALI daylight control and extra functionalities, 360°, 12 m, master or stand-alone, for flush mounting, with EnOcean. IP20

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Light intensity range: 100 lux – 1000 lux

• Switch-off delay: 5 m – , ∞

• Detection angle: 360 °

• Detection range (PIR): up to 12 m in diameter from a height of 3 m

• Ambient temperature: 5 – 40 °C

• Mounting method: flush-mounting

• Drill diameter: 77 mm

• Mounting height: 2,4 – 3 m

• Relay contact 1: NO (max. µ10 A), potential-free

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Maximum load incandescent and halogen lamps (cosφ=1): 2300 W

• Maximum load low voltage halogen lamps: 500 W

• Maximum load economy lamps (CFLi): 350 W

• Maximum load LED lamps 230 V: 350 W

• Maximum load LED driver: 500 VA

• Maximum load electronic transformer: 500 VA

• Maximum capacitive load: 140 µF

• Maximum switching current: 165 A/20 ms – 800 A/200 µs

• Dimensions (HxWxD): 95 x 95 x 95 mm

• Protection degree: IP20

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-41730

**Specification text:**

Detector with 3 zone daylight control, KNX, 360°, 24 m, master, for flush mounting, (white). The presence detector can be programmed as a master, stand-alone or slave. To increase the detection range, a detector set as a master can be combined with one or more detectors set as slaves. The detector is splash proof (IP54) and has a 360° detection range, which can be divided into different sectors.

You can quickly and easily set the parameters and functions of the detector using the ETS software. The software offers three different configuration methods (Basic, Optimisation or Advanced) and gives you access to several pre-programmed applications.

With the (optional) remote control 350-41930 you can modify the local settings of the lux level, the lighting scenes, the switch-off delay, the orientation lighting, the sensitivity, the choice between automatic or manual calibration …

• Input voltage: 30 Vdc via DALI- bus

• Maximum power consumption: 10 W

• Light intensity range: 10 lux – 2000 lux

• Switch-off delay: 1 s – 15 h

• Detection angle: 360 °

• Detection range (PIR): up to 28 m in diameter from a height of 3 m

• Ambient temperature: -5 – 50 °C

• Mounting method: flush-mounting

• Drill diameter: 88,5 mm

• Mounting height: 2 – 3,4 m

• Dimensions (HxWxD): 100 x 100 x 46,4 mm

• Protection degree: IP54

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-41731

**Specification text:**

Detector with 3 zone daylight control, KNX, 360°, 24 m, master, for surface mounting, (white).

• Input voltage: 30 Vdc via KNX-bus

• Maximum power consumption: 10 W

• Light intensity range: 10 lux – 2000 lux

• Switch-off delay: 1 s – 15 h

• Detection angle: 360 °

• Detection range (PIR): up to 28 m in diameter from a height of 3 m

• Ambient temperature: -5 – 50 °C

• Mounting method: surface mounting

• Mounting height: 2 – 3.4 m

• Dimensions (HxWxD): 117 x 117 x 64.1 mm

• Protection degree: IP54

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-41734

**Specification text:**

Detector 360° with 3 zone daylight control, KNX, 32 m, master, for flush-mounting in high ceilings (white). The presence detector can be programmed as a master, stand-alone or slave. To increase the detection range, a detector set as a master can be combined with one or more detectors set as slaves. The detector is splash proof (IP54) and has a 360° detection range, which can be divided into different sectors.

You can quickly and easily set the parameters and functions of the detector using the ETS software. The software offers three different configuration methods (Basic, Optimisation or Advanced) and gives you access to several pre-programmed applications.

With the (optional) remote control 350-41930 you can modify the local settings of the lux level, the lighting scenes, the switch-off delay, the orientation lighting, the sensitivity, the choice between automatic or manual calibration …

• Input voltage: 30 Vdc via DALI- bus

• Maximum power consumption: 10 W

• Light intensity range: 10 lux – 2000 lux

• Switch-off delay: 1 s – 15 h

• Detection angle: 360 °

• Detection range (PIR): circle, 16 – 32 m

• Ambient temperature: -5 – 50 °C

• Mounting method: flush-mounting

• Mounting height: 4 – 8 m

• Protection degree: IP54

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-41735

**Specification text:**

Detector with 3 zone daylight control, KNX, 360°, 32 m, master, for surface mounting on high ceilings, (white). The presence detector can be programmed as a master, stand-alone or slave. To increase the detection range, a detector set as a master can be combined with one or more detectors set as slaves. The detector is splash proof (IP54) and has a 360° detection range, which can be divided into different sectors.

You can quickly and easily set the parameters and functions of the detector using the ETS software. The software offers three different configuration methods (Basic, Optimisation or Advanced) and gives you access to several pre-programmed applications.

With the (optional) remote control 350-41930 you can modify the local settings of the lux level, the lighting scenes, the switch-off delay, the orientation lighting, the sensitivity, the choice between automatic or manual calibration …

• Input voltage: 30 Vdc via KNX-bus

• Maximum power consumption: 10 W

• Light intensity range: 10 lux – 20000 lux

• Switch-off delay: 1 s – 15 h

• Detection angle: 360 °

• Detection range (PIR): circle, 16 – 32 m

• Ambient temperature: -5 – 50 °C

• Mounting method: surface mounting

• Mounting height: 4 – 12 m

• Dimensions (HxWxD): 117 x 117 x 64,1 mm

• Protection degree: IP54

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-41750

**Specification text:**

Detector with 3 zone DALI daylight control and extra functionalities, 360°, 24 m, master or stand-alone, for flush mounting, (white). The presence detector (DALI daylight control, master) can be combined stand-alone or as the master with a maximum of 10 slaves. The 360° detection range can be divided into three zones of 120° each, which can be set or disconnected separately. A (faulty) DALI luminaire can be replaced without reprogramming.

All-in-one detector installed in a quick and flexible manner thanks to the addressable DALI bus (in accordance with EN/IEC 62386-101/102). The detector has 230V inputs for manual control on/off and dimming via push buttons. For use in offices, schools, government buildings… in large and small spaces. The detector has 2 or 3 daylight controlled zones and 1 or 2 secondary zones with on/off or dimming functionality. The detector is equipped with a potential-free relay contact for control of either light, HVAC or cut-off of voltage to the DALI luminaires. Once the set amount of daylight is exceeded, you can choose to set the luminaires at their minimum setting or to switch them off completely. The detector can execute a 100 hour burn-in for florescent lamps and activate eight-hour constant illumination for operating a ventilation system. The detector always shows the remaining time of the activated function.

There are four optional applications:

• mode 1: daylight control in 2 or 3 zones (DALI), 1 or 2 secondary zones (DALI) and the built-in relay contact is used for the switching of HVAC.

• mode 2: daylight control in 2 or 3 zones (DALI) and a 4th zone to switch the non-DALI lighting on or off via the built-in relay contact.

• mode 3: daylight control in 2 or 3 zones (DALI), 1 or 2 secondary zones (DALI) and the built-in relay contact is used for switching off the 230V supply of the control gear (minimum consumption in standby).

• mode 4: daylight control in up to 3 zones for corridors with day/night mode and relay output for HVAC.

The detector is programmed using the (optional) remote control. A remote control for users is also available.

• Detector technology: PIR

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Light intensity range: 100 lux – 2000 lux

• Detection angle: 360 °

• Detection range (PIR): up to 28 m in diameter from a height of 3 m

• Ambient temperature: -5 – 50 °C

• Mounting method: surface mounting

• Drill diameter: 88,5 mm

• Mounting height: 2 – 3.4 m

• Relay contact 1: NO (max. µ10 A)

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Maximum load incandescent and halogen lamps (cosφ=1): 2300 W

• Maximum load low voltage halogen lamps: 500 W

• Maximum load economy lamps (CFLi): 350 W

• Maximum load LED lamps 230 V: 350 W

• Maximum load LED driver: 500 VA

• Maximum load electronic transformer: 500 VA

• Maximum capacitive load: 140 µF

• Maximum switching current: 165 A/20 ms – 800 A/200 µs

• Dimensions (HxWxD): 100 x 100 x 136.4 mm

• Protection degree: IP54

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-41751

**Specification text:**

Detector with 3 zone DALI daylight control and extra functionalities, 360°, 24 m, master or standalone, for surface mounting, (white). The presence detector (DALI daylight control, master) can be combined stand-alone or as the master with a maximum of 10 slaves. The 360° detection range can be divided into three zones of 120° each, which can be set or disconnected separately. A (faulty) DALI luminaire can be replaced without reprogramming.

All-in-one detector installed in a quick and flexible manner thanks to the addressable DALI bus (in accordance with EN/IEC 62386-101/102). The detector has 230V inputs for manual control on/off and dimming via push buttons. For use in offices, schools, government buildings… in large and small spaces. The detector has 2 or 3 daylight controlled zones and 1 or 2 secondary zones with on/off or dimming functionality. The detector is equipped with a potential-free relay contact for control of either light, HVAC or cut-off of voltage to the DALI luminaires. Once the set amount of daylight is exceeded, you can choose to set the luminaires at their minimum setting or to switch them off completely. The detector can execute a 100 hour burn-in for florescent lamps and activate eight-hour constant illumination for operating a ventilation system. The detector always shows the remaining time of the activated function.

There are four optional applications:

• mode 1: daylight control in 2 or 3 zones (DALI), 1 or 2 secondary zones (DALI) and the built-in relay contact is used for the switching of HVAC.

• mode 2: daylight control in 2 or 3 zones (DALI) and a 4th zone to switch the non-DALI lighting on or off via the built-in relay contact.

• mode 3: daylight control in 2 or 3 zones (DALI), 1 or 2 secondary zones (DALI) and the built-in relay contact is used for switching off the 230V supply of the control gear (minimum consumption in standby).

• mode 4: daylight control in up to 3 zones for corridors with day/night mode and relay output for HVAC.

The detector is programmed using the (optional) remote control. A remote control for users is also available.

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Light intensity range: 100 lux – 2000 lux

• Detection angle: 360 °

• Detection range (PIR): up to 28 m in diameter from a height of 3 m

• Ambient temperature: -5 – 50 °C

• Mounting method: surface mounting

• Mounting height: 2 – 3.4 m

• Relay contact 1: NO (max. µ10 A), potential-free

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Maximum load incandescent and halogen lamps (cosφ=1): 2300 W

• Maximum load low voltage halogen lamps: 500 W

• Maximum load economy lamps (CFLi): 350 W

• Maximum load LED lamps 230 V: 350 W

• Maximum load LED driver: 500 VA

• Maximum load electronic transformer: 500 VA

• Maximum capacitive load: 140 µF

• Maximum switching current: 165 A/20 ms – 800 A/200 µs

• Dimensions (HxWxD): 117 x 117 x 64.1 mm

• Protection degree: IP54

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-41752

**Specification text:**

Detector with 3 zone DALI daylight control and extra functionalities, 360°, 24 m, slave, for flush mounting, (white). The presence detector (DALI daylight control, slave) can considerably increase the detection area of the master. The 360° detection range can be divided into three zones of 120° each, which can be set or disconnected separately. The device follows the settings of the master. The sensitivity of the slave, though, can be set separately. A maximum of ten slaves can be connected per master.

• Input voltage: via DALI bus

• Detection angle: 360 °

• Detection range (PIR): up to 28 m in diameter from a height of 3 m

• Ambient temperature: -5 – 50 °C

• Mounting method: flush-mounting

• Drill diameter: 88,5 mm

• Mounting height: 2 – 3,4 m

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Dimensions (HxWxD): 100 x 100 x 136,4 mm

• Protection degree: IP54

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-41753

**Specification text:**

Detector with 3 zone DALI daylight control and extra functionalities, 360°, 24 m, slave, for surface mounting, (white). The presence detector (DALI daylight control, slave) can considerably increase the detection area of the master. The 360° detection range can be divided into three zones of 120° each, which can be set or disconnected separately. The device follows the settings of the master. The sensitivity of the slave, though, can be set separately. A maximum of ten slaves can be connected per master.

• Input voltage: via DALI bus

• Detection angle: 360 °

• Detection range (PIR): up to 28 m in diameter from a height of 3 m

• Ambient temperature: -5 – 50 °C

• Mounting method: surface mounting

• Mounting height: 2 – 3.4 m

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Dimensions (HxWxD): 117 x 117 x 64.1 mm

• Protection degree: IP54

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-41760

**Specification text:**

Detector with 3 zone DALI daylight control and extra functionalities, 360°, 32 m, master or standalone, for flush mounting in high ceilings, (white). The presence detector (DALI daylight control, master) can be combined stand-alone or as the master with a maximum of 10 slaves. The 360° detection range can be divided into three zones of 120° each, which can be set or disconnected separately. A (faulty) DALI luminaire can be replaced without reprogramming.

All-in-one detector installed in a quick and flexible manner thanks to the addressable DALI bus (in accordance with EN/IEC 62386-101/102). The detector has 230V inputs for manual control on/off and dimming via push buttons. For use in offices, schools, government buildings… in large and small spaces. The detector has 2 or 3 daylight controlled zones and 1 or 2 secondary zones with on/off or dimming functionality. The detector is equipped with a potential-free relay contact for control of either light, HVAC or cut-off of voltage to the DALI luminaires. Once the set amount of daylight is exceeded, you can choose to set the luminaires at their minimum setting or to switch them off completely. The detector can execute a 100 hour burn-in for florescent lamps and activate eight-hour constant illumination for operating a ventilation system. The detector always shows the remaining time of the activated function.

There are four optional applications:

• mode 1: daylight control in 2 or 3 zones (DALI), 1 or 2 secondary zones (DALI) and the built-in relay contact is used for the switching of HVAC.

• mode 2: daylight control in 2 or 3 zones (DALI) and a 4th zone to switch the non-DALI lighting on or off via the built-in relay contact.

• mode 3: daylight control in 2 or 3 zones (DALI), 1 or 2 secondary zones (DALI) and the built-in relay contact is used for switching off the 230V supply of the control gear (minimum consumption in standby).

• mode 4: daylight control in up to 3 zones for corridors with day/night mode and relay output for HVAC.

The detector is programmed using the (optional) remote control. A remote control for users is also available.

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Light intensity range: 100 lux – 2000 lux

• Switch-off delay: 5 m – , ∞

• Detection angle: 360 °

• Detection range (PIR): circle, 16 – 32 m

• Ambient temperature: -5 – 50 °C

• Mounting method: flush-mounting

• Drill diameter: 88,5 mm

• Mounting height: 4 – 8 m

• Relay contact 1: NO (max. µ10 A), potential-free

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Maximum load incandescent and halogen lamps (cosφ=1): 2300 W

• Maximum load low voltage halogen lamps: 500 W

• Maximum load economy lamps (CFLi): 350 W

• Maximum load LED lamps 230 V: 350 W

• Maximum load LED driver: 500 VA

• Maximum load electronic transformer: 500 VA

• Maximum capacitive load: 140 µF

• Maximum switching current: 165 A/20 ms – 800 A/200 µs

• Dimensions (HxWxD): 100 x 100 x 136,4 mm

• Protection degree: IP54

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-41761

**Specification text:**

Detector with 3 zone DALI daylight control and extra functionalities, 360°, 32 m, master or standalone, for surface mounting on high ceilings, (white). The presence detector (DALI daylight control, slave) can considerably increase the detection area of the master. The 360° detection range can be divided into three zones of 120° each, which can be set or disconnected separately. The device follows the settings of the master. The sensitivity of the slave, though, can be set separately. A maximum of ten slaves can be connected per master.

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Light intensity range: 100 lux – 2000 lux

• Detection angle: 360 °

• Detection range (PIR): circle, 16 – 32 m

• Ambient temperature: -5 – 50 °C

• Mounting method: surface mounting

• Mounting height: 4 – 8 m

• Relay contact 1: NO (max. µ10 A), potential-free

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Maximum load incandescent and halogen lamps (cosφ=1): 2300 W

• Maximum load low voltage halogen lamps: 500 W

• Maximum load economy lamps (CFLi): 350 W

• Maximum load LED lamps 230 V: 350 W

• Maximum load LED driver: 500 VA

• Maximum load electronic transformer: 500 VA

• Maximum capacitive load: 140 µF

• Maximum switching current: 165 A/20 ms – 800 A/200 µs

• Dimensions (HxWxD): 117 x 117 x 64,1 mm

• Protection degree: IP54

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-41762

**Specification text:**

Detector with 3 zone DALI daylight control and extra functionalities, 360°, 32 m, slave, for flush mounting in high ceilings, (white). The presence detector (DALI daylight control, slave) can considerably increase the detection area of the master. The 360° detection range can be divided into three zones of 120° each, which can be set or disconnected separately. The device follows the settings of the master. The sensitivity of the slave, though, can be set separately. A maximum of ten slaves can be connected per master.

• Input voltage: via DALI bus

• Detection angle: 360 °

• Detection range (PIR): circle, 16 – 32 m

• Ambient temperature: -5 – 50 °C

• Mounting method: flush-mounting

• Drill diameter: 88,5 mm

• Mounting height: 4 – 8 m

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Dimensions (HxWxD): 100 x 100 x 136,4 mm

• Protection degree: IP54

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-41763

**Specification text:**

Detector with 3 zone DALI daylight control and extra functionalities, 360°, 32 m, slave, for surface mounting on high ceilings, (white). The presence detector (DALI daylight control, slave) can considerably increase the detection area of the master. The 360° detection range can be divided into three zones of 120° each, which can be set or disconnected separately. The device follows the settings of the master. The sensitivity of the slave, though, can be set separately. A maximum of ten slaves can be connected per master.

• Input voltage: via DALI bus

• Detection angle: 360 °

• Detection range (PIR): up to 32 m in diameter from a height of 8 m

• Ambient temperature: -5 – 50 °C

• Mounting method: surface mounting

• Mounting height: 4 – 8 m

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Dimensions (HxWxD): 117 x 117 x 64,1 mm

• Protection degree: IP54

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-41780

**Specification text:**

Detector with 3 zone DALI daylight control and extra functionalities, 360°, 24 m, master or standalone, for flush mounting, with EnOcean, (white). The presence detector (DALI daylight control, master) can be combined stand-alone or as the master with a maximum of 10 slaves. The 360° detection range can be divided into three zones of 120° each which can be set or disconnected separately. A (faulty) DALI luminaire can be replaced without reprogramming.

All-in-one detector installed in a quick and flexible manner thanks to the addressable DALI bus (in accordance with EN/IEC 62386-101/102). The detector has 230V inputs for manual control on/off and dimming via push buttons. For use in offices, schools, government buildings… in large and small spaces. The detector has 2 or 3 daylight controlled zones and 1 or 2 secondary zones with on/off or dimming functionality. The detector is equipped with a potential-free relay contact for control of either light, HVAC or cut-off of voltage to the DALI luminaires. Once the set amount of daylight is exceeded, you can choose to set the luminaires at their minimum setting or to switch them off completely. The detector can execute a 100 hour burn-in for florescent lamps and activate eight-hour constant illumination for operating a ventilation system. The detector always shows the remaining time of the activated function.

There are four optional applications:

• mode 1: daylight control in 2 or 3 zones (DALI), 1 or 2 secondary zones (DALI) and the built-in relay contact is used for the switching of HVAC.

• mode 2: daylight control in 2 or 3 zones (DALI) and a 4th zone to switch the non-DALI lighting on or off via the built-in relay contact.

• mode 3: daylight control in 2 or 3 zones (DALI), 1 or 2 secondary zones (DALI) and the built-in relay contact is used for switching off the 230V supply of the control gear (minimum consumption in standby).

• mode 4: daylight control in up to 3 zones for corridors with day/night mode and relay output for HVAC.

The detector is programmed using the (optional) remote control. A remote control for users is also available.

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Light intensity range: 100 lux – 2000 lux

• Switch-off delay: 5 m – , ∞

• Detection angle: 360 °

• Detection range (PIR): up to 28 m in diameter from a height of 3 m

• Ambient temperature: -5 – 50 °C

• Mounting method: flush-mounting

• Mounting height: 2 – 3,4 m

• Relay contact 1: NO (max. µ10 A), potential-free

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Maximum load incandescent and halogen lamps (cosφ=1): 2300 W

• Maximum load low voltage halogen lamps: 500 W

• Maximum load economy lamps (CFLi): 350 W

• Maximum load LED lamps 230 V: 350 W

• Maximum load LED driver: 500 VA

• Maximum load electronic transformer: 500 VA

• Maximum capacitive load: 140 µF

• Maximum switching current: 165 A/20 ms – 800 A/200 µs

• Dimensions (HxWxD): 100 x 100 x 136,4 mm

• Protection degree: IP54

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-41781

**Specification text:**

Detector with 3 zone DALI daylight control and extra functionalities, 360°, 24 m, master or standalone, for surface mounting, with EnOcean, (white). The presence detector (DALI daylight control, master) can be combined stand-alone or as the master with a maximum of 10 slaves. The 360° detection range can be divided into three zones of 120° each, which can be set or disconnected separately. A (faulty) DALI luminaire can be replaced without reprogramming.

All-in-one detector installed in a quick and flexible manner thanks to the addressable DALI bus (in accordance with EN/IEC 62386-101/102). The detector has 230V inputs for manual control on/off and dimming via push buttons. For use in offices, schools, government buildings… in large and small spaces. The detector has 2 or 3 daylight controlled zones and 1 or 2 secondary zones with on/off or dimming functionality. The detector is equipped with a potential-free relay contact for control of either light, HVAC or cut-off of voltage to the DALI luminaires. Once the set amount of daylight is exceeded, you can choose to set the luminaires at their minimum setting or to switch them off completely. The detector can execute a 100 hour burn-in for florescent lamps and activate eight-hour constant illumination for operating a ventilation system. The detector always shows the remaining time of the activated function.

There are four optional applications:

• mode 1: daylight control in 2 or 3 zones (DALI), 1 or 2 secondary zones (DALI) and the built-in relay contact is used for the switching of HVAC.

• mode 2: daylight control in 2 or 3 zones (DALI) and a 4th zone to switch the non-DALI lighting on or off via the built-in relay contact.

• mode 3: daylight control in 2 or 3 zones (DALI), 1 or 2 secondary zones (DALI) and the built-in relay contact is used for switching off the 230V supply of the control gear (minimum consumption in standby).

• mode 4: daylight control in up to 3 zones for corridors with day/night mode and relay output for HVAC.

The detector is programmed using the (optional) remote control. A remote control for users is also available.

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Light intensity range: 100 lux – 2000 lux

• Detection angle: 360 °

• Detection range (PIR): up to 28 m in diameter from a height of 3 m

• Ambient temperature: -5 – 50 °C

• Mounting method: surface mounting

• Mounting height: 2 – 3.4 m

• Relay contact 1: NO (max. µ10 A), potential-free

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Maximum load incandescent and halogen lamps (cosφ=1): 2300 W

• Maximum load low voltage halogen lamps: 500 W

• Maximum load economy lamps (CFLi): 350 W

• Maximum load LED lamps 230 V: 350 W

• Maximum load LED driver: 500 VA

• Maximum load electronic transformer: 500 VA

• Maximum capacitive load: 140 µF

• Maximum switching current: 165 A/20 ms – 800 A/200 µs

• Dimensions (HxWxD): 117 x 117 x 64.1 mm

• Protection degree: IP54

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-600021

**Specification text:**

Presence detector, 360°, 230 V, 12 m, slave, for flush-mounting box.

• Flat and discrete design

• Easy mounting in a standard flush-mounting box (60 or 79 mm diagonal screw distance)

• Quick cabling using screwless and easily accessible plug-in terminals

• User-friendly app for settings (iOS/Android)

• 2-way Bluetooth communication ensures quick modification of settings and live feedback in the app

• Pre-configured function: adjustable PIR sensitivity (4 levels), event log keeps track of recent changes

• Wireless communication between master and slave detectors

• Settings and configuration can be locked with a PIN code

Technical data

• Detector technology: PIR

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Maximum power consumption: 0,3 W

• Detection angle: 360 °

• Detection range (PIR): up to 12 m in diameter from a height of 3 m

• Ambient temperature: -25 – 50 °C

• Mounting method: flush-mounting box

• Mounting height: 2 – 3,5 m

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Colour: white (RAL 9010)

• Dimensions (HxWxD): 100 x 100 x 44,5 mm

• Maximum range Bluetooth®: 25 m

• Maximum radio frequency power: -5 dBm

• Minimum distance between Bluetooth® devices: 1,2 m

• Detector settings: Niko detector tool app and 2-way Bluetooth® communication

• Protection degree: IP20

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-600111

**Specification text:**

Motion detector, 360°, 230 V, 12 m, master, for flush-mounting box.

• Flat and discrete design

• Easy mounting in a standard flush-mounting box (60 or 79 mm diagonal screw distance)

• Quick cabling using screwless and easily accessible plug-in terminals

• User-friendly app for settings (iOS/Android)

• 2-way Bluetooth communication ensures quick modification of settings and live feedback in the app

• Pre-configured function: adjustable PIR sensitivity (4 levels), event log keeps track of recent changes

• Robust relay

• Settings and configuration can be locked with a PIN code

• Cloud solution for back up and distribution of configuration files

Technical data

• Detector technology: PIR

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Maximum power consumption: 0,3 W

• Number of channels: 1 channel

• Light intensity range: 20 lux – 2000 lux, ∞

• Hysteresis on light sensitivity: + 10 %

• Switch-off delay: pulse, 15 s – 2 h, ∞

• Detection angle: 360 °

• Detection range (PIR): up to 12 m in diameter from a height of 3 m

• Ambient temperature: -25 – 50 °C

• Mounting method: flush-mounting box

• Mounting height: 2 – 3,5 m

• Relay contact 1: NO (max. µ10 A)

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Maximum load incandescent and halogen lamps (cosφ=1): 2300 W

• Maximum load fluorescent lamps (cosφ ≥ 0,5): 1200 VA

• Maximum load fluorescent lamps (cosφ ≥ 0,9): 1200 VA

• Maximum load low voltage halogen lamps: 500 W

• Maximum load economy lamps (CFLi): 350 W

• Maximum load LED lamps 230 V: 350 W

• Maximum load LED driver: 500 VA

• Maximum load electronic transformer: 500 VA

• Maximum capacitive load: 140 µF

• Maximum switching current: 165 A/20 ms – 800 A/200 µs

• Colour: white (RAL 9010)

• Dimensions (HxWxD): 100 x 100 x 44,5 mm

• Maximum range Bluetooth®: 25 m

• Maximum radio frequency power: -5 dBm

• Minimum distance between Bluetooth® devices: 1,2 m

• Detector settings: Niko detector tool app and 2-way Bluetooth® communication

• Protection degree: IP20

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-600121

**Specification text:**

Presence detector, 360°, 230 V, 12 m, master, for flush-mounting box.

• Flat and discrete design

• Easy mounting in a standard flush-mounting box (60 or 79 mm diagonal screw distance)

• Quick cabling using screwless and easily accessible plug-in terminals

• User-friendly app for settings (iOS/Android)

• 2-way Bluetooth communication ensures quick modification of settings and live feedback in the app

• Pre-configured function: adjustable PIR sensitivity (4 levels), event log keeps track of recent changes

• Detection range can be increased using up to 10 slave detectors

• Wireless communication between master and slave detectors

• Robust potential-free relay

• Automatic lighting control can be overridden with a 230 V push button - different options are available

• Settings and configuration can be locked with a PIN code

• Cloud solution for back up and distribution of configuration files

Technical data

• Detector technology: PIR

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Maximum power consumption: 0,3 W

• Number of channels: 1 channel

• Light intensity range: 20 lux – 2000 lux, ∞

• Hysteresis on light sensitivity: + 10 %

• Switch-off delay: pulse, 15 s – 2 h, ∞

• Detection angle: 360 °

• Detection range (PIR): up to 12 m in diameter from a height of 3 m

• Ambient temperature: -25 – 50 °C

• Mounting method: flush-mounting box

• Mounting height: 2 – 3,5 m

• Relay contact 1: NO (max. µ10 A), potential-free

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Maximum load incandescent and halogen lamps (cosφ=1): 2300 W

• Maximum load fluorescent lamps (cosφ ≥ 0,5): 1200 VA

• Maximum load fluorescent lamps (cosφ ≥ 0,9): 1200 VA

• Maximum load low voltage halogen lamps: 500 W

• Maximum load economy lamps (CFLi): 350 W

• Maximum load LED lamps 230 V: 350 W

• Maximum load LED driver: 500 VA

• Maximum load electronic transformer: 500 VA

• Maximum capacitive load: 140 µF

• Maximum switching current: 165 A/20 ms – 800 A/200 µs

• Colour: white (RAL 9010)

• Dimensions (HxWxD): 100 x 100 x 44,5 mm

• Maximum range Bluetooth®: 25 m

• Maximum radio frequency power: -5 dBm

• Minimum distance between Bluetooth® devices: 1,2 m

• Detector settings: Niko detector tool app and 2-way Bluetooth® communication

• Protection degree: IP20

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-601021

**Specification text:**

Presence detector, 360°, 230 V, 12 m, slave, for flush mounting.

• Flat and discrete design

• SnapFit mounting bracket (patent pending) for easy and stable mounting in all types of suspended ceilings with or without removable tiles

• Quick cabling using screwless and easily accessible plug-in terminals

• Screwless strain relief and screwless installation of cable cover

• User-friendly app for settings (iOS/Android)

• 2-way Bluetooth communication ensures quick modification of settings and live feedback in the app

• Pre-configured function: adjustable PIR sensitivity (4 levels), event log keeps track of recent changes

Technical data

• Detector technology: PIR

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Maximum power consumption: 0,3 W

• Detection angle: 360 °

• Detection range (PIR): up to 12 m in diameter from a height of 3 m

• Ambient temperature: -25 – 50 °C

• Mounting method: flush-mounting

• Drill diameter: 76 mm

• Mounting height: 2 – 3,5 m

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Colour: white (RAL 9010)

• Dimensions (HxWxD): 120 x 120 x 66,4 mm

• Maximum range Bluetooth®: 25 m

• Maximum radio frequency power: -5 dBm

• Minimum distance between Bluetooth® devices: 1,2 m

• Detector settings: Niko detector tool app and 2-way Bluetooth® communication

• Protection degree: IP20

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-601111

**Specification text:**

Motion detector, 360°, 230 V, 12 m, master, for flush mounting.

• Flat and discrete design

• SnapFit mounting bracket (patent pending) for easy and stable mounting in all types of suspended ceilings with or without removable tiles

• Quick cabling using screwless and easily accessible plug-in terminals

• Screwless strain relief and screwless installation of cable cover

• User-friendly app for settings (iOS/Android)

• 2-way Bluetooth communication ensures quick modification of settings and live feedback in the app

• Pre-configured function: adjustable PIR sensitivity (4 levels), event log keeps track of recent changes

• Robust relay

• Settings and configuration can be locked with a PIN code

• Cloud solution for backing up and exchanging configuration files

Technical data

• Detector technology: PIR

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Maximum power consumption: 0,3 W

• Number of channels: 1 channel

• Light intensity range: 20 lux – 2000 lux, ∞

• Hysteresis on light sensitivity: + 10 %

• Switch-off delay: pulse, 15 s – 2 h, ∞

• Detection angle: 360 °

• Detection range (PIR): up to 12 m in diameter from a height of 3 m

• Ambient temperature: -25 – 50 °C

• Mounting method: flush-mounting

• Drill diameter: 76 mm

• Mounting height: 2 – 3,5 m

• Relay contact 1: NO (max. µ10 A)

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Maximum load incandescent and halogen lamps (cosφ=1): 2300 W

• Maximum load fluorescent lamps (cosφ ≥ 0,5): 1200 VA

• Maximum load economy lamps (CFLi): 350 W

• Maximum load LED lamps 230 V: 350 W

• Maximum load LED driver: 500 VA

• Maximum load electronic transformer: 500 VA

• Maximum capacitive load: 140 µF

• Maximum switching current: 165 A/20 ms – 800 A/200 µs

• Colour: white (RAL 9010)

• Dimensions (HxWxD): 120 x 120 x 66,4 mm

• Maximum range Bluetooth®: 25 m

• Maximum radio frequency power: -5 dBm

• Minimum distance between Bluetooth® devices: 1,2 m

• Detector settings: Niko detector tool app and 2-way Bluetooth® communication

• Protection degree: IP20

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-601121

**Specification text:**

Presence detector, 360°, 230 V, 12 m, master, for flush mounting.

• Flat and discrete design

• SnapFit mounting bracket (patent pending) for easy and stable mounting in all types of suspended ceilings with or without removable tiles

• Quick cabling using screwless and easily accessible plug-in terminals

• Screwless strain relief and screwless installation of cable cover

• User-friendly app for settings (iOS/Android)

• 2-way Bluetooth communication ensures quick modification of settings and live feedback in the app

• Pre-configured function: adjustable PIR sensitivity (4 levels), event log keeps track of recent changes

• Detection range can be increased using up to 10 slave detectors

• Wireless communication between master- and slave detectors

• Robust potential-free relay

• Automatic lighting control can be overridden with a 230 V push button - different options available

• Settings and configuration can be locked with a PIN code

• Cloud solution for backing up and exchanging configuration files

Technical data

• Detector technology: PIR

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Maximum power consumption: 0,3 W

• Number of channels: 1 channel

• Light intensity range: 20 lux – 2000 lux, ∞

• Hysteresis on light sensitivity: + 10 %

• Switch-off delay: pulse, 15 s – 2 h, ∞

• Detection angle: 360 °

• Detection range (PIR): up to 12 m in diameter from a height of 3 m

• Ambient temperature: -25 – 50 °C

• Mounting method: flush-mounting

• Drill diameter: 76 mm

• Mounting height: 2 – 3,5 m

• Relay contact 1: NO (max. µ10 A), potential-free

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Maximum load incandescent and halogen lamps (cosφ=1): 2300 W

• Maximum load fluorescent lamps (cosφ ≥ 0,5): 1200 VA

• Maximum load economy lamps (CFLi): 350 W

• Maximum load LED lamps 230 V: 350 W

• Maximum load LED driver: 500 VA

• Maximum load electronic transformer: 500 VA

• Maximum capacitive load: 140 µF

• Maximum switching current: 165 A/20 ms – 800 A/200 µs

• Colour: white (RAL 9010)

• Dimensions (HxWxD): 120 x 120 x 66,4 mm

• Maximum range Bluetooth®: 25 m

• Maximum radio frequency power: -5 dBm

• Minimum distance between Bluetooth® devices: 1,2 m

• Detector settings: Niko detector tool app and 2-way Bluetooth® communication

• Protection degree: IP20

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-601221

**Specification text:**

Presence detector, 360°, 230 V, 12 m, master, 2 channel, for flush mounting.

• Flat and discrete design

• SnapFit mounting bracket (patent pending) for easy and stable mounting in all types of suspended ceilings with or without removable tiles

• Quick cabling using screwless and easily accessible plug-in terminals

• Screwless strain relief and screwless installation of cable cover

• User-friendly app for settings (iOS/Android)

• 2-way Bluetooth communication ensures quick modification of settings and live feedback in the app

• Pre-configured function: adjustable PIR sensitivity (4 levels), event log keeps track of recent changes

• Detection range can be increased using up to 10 slave detectors

• Wireless communication between master- and slave detectors

• Robust potential-free relay

• Automatic lighting control can be overridden with a 230 V push button - one for each channel - different options available

• Settings and configuration can be locked with a PIN code

• Cloud solution for backing up and exchanging configuration files

Technical data

• Detector technology: PIR

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Maximum power consumption: 0,4 W

• Number of channels: 2 channels

• Light intensity range: 20 lux – 2000 lux, ∞

• Switch-off delay: pulse, 15 s – 2 h, ∞

• Detection angle: 360 °

• Detection range (PIR): up to 12 m in diameter from a height of 3 m

• Ambient temperature: -25 – 50 °C

• Mounting method: flush-mounting

• Drill diameter: 76 mm

• Mounting height: 2 – 3,5 m

• Relay contact 1: 2 x NO (max. µ10 A), potential-free

• Potential-free contact: NO, 230 V, µ10 A

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Maximum load incandescent and halogen lamps (cosφ=1): 2300 W

• Maximum load fluorescent lamps (cosφ ≥ 0,5): 1200 VA

• Maximum load economy lamps (CFLi): 350 W

• Maximum load LED lamps 230 V: 350 W

• Maximum load LED driver: 500 VA

• Maximum load electronic transformer: 500 VA

• Maximum capacitive load: 140 µF

• Maximum switching current: 165 A/20 ms – 800 A/200 µs

• Colour: white (RAL 9010)

• Dimensions (HxWxD): 120 x 120 x 109,5 mm

• Maximum range Bluetooth®: 25 m

• Maximum radio frequency power: -5 dBm

• Minimum distance between Bluetooth® devices: 1,2 m

• Detector settings: Niko detector tool app and 2-way Bluetooth® communication

• Protection degree: IP20

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-602021

**Specification text:**

Presence detector, 360°, 230 V, 12 m, slave, for surface mounting.

• Surface mounting

• Quick cabling using screwless and easily accessible plug-in terminals

• User-friendly app for settings (iOS/Android)

• 2-way Bluetooth® communication ensures quick modification of settings and

live feedback in the app

• Pre-configured function:

• adjustable PIR sensitivity (4 levels)

• event log keeps track of recent changes

• Wireless communication between master- and slave detectors

• Settings and configuration can be locked with a PIN code

• IP54 protection degree

Technical data

• Detector technology: PIR

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Maximum power consumption: 0,3 W

• Detection angle: 360 °

• Detection range (PIR): up to 12 m in diameter from a height of 3 m

• Ambient temperature: -25 – 50 °C

• Mounting method: surface mounting

• Mounting height: 2 – 3.5 m

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Colour: white (RAL 9010)

• Dimensions (HxWxD): 100 x 100 x 50 mm

• Maximum range Bluetooth®: 25 m

• Maximum radio frequency power: -5 dBm

• Minimum distance between Bluetooth® devices: 1,2 m

• Detector settings: Niko detector tool app and 2-way Bluetooth® communication

• Protection degree: IP54

• Protection class: Class II device

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-602111

**Specification text:**

Motion detector, 360°, 230 V, 12 m, master, for surface mounting.

• Surface mounting

• Quick cabling using screwless and easily accessible plug-in terminals

• User-friendly app for commissioning (iOS/Android)

• 2-way Bluetooth communication ensures quick modification of settings and live feedback in the app

• Pre-configured function: adjustable PIR sensitivity (4 levels), eventlog keeps track of recent changes

• Robust relay

• Settings and configuration can be locked with a PIN code

• Cloud solution for backing up and exchanging configuration files

• IP54 protection degree

Technical data

• Detector technology: PIR

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Maximum power consumption: 0,3 W

• Number of channels: 1 channel

• Light intensity range: 20 lux – 2000 lux, ∞

• Hysteresis on light sensitivity: + 10 %

• Switch-off delay: pulse, 15 s – 2 h, ∞

• Detection angle: 360 °

• Detection range (PIR): up to 12 m in diameter from a height of 3 m

• Ambient temperature: -25 – 50 °C

• Mounting method: surface mounting

• Mounting height: 2 – 3.5 m

• Relay contact 1: NO (max. µ10 A)

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Maximum load incandescent and halogen lamps (cosφ=1): 2300 W

• Maximum load fluorescent lamps (cosφ ≥ 0,5): 1200 VA

• Maximum load fluorescent lamps (cosφ ≥ 0,9): 1200 VA

• Maximum load low voltage halogen lamps: 300 W

• Maximum load economy lamps (CFLi): 350 W

• Maximum load LED lamps 230 V: 350 W

• Maximum load LED driver: 500 VA

• Maximum load electronic transformer: 500 VA

• Maximum switching current: 165 A/20 ms – 800 A/200 µs

• Colour: white (RAL 9010)

• Dimensions (HxWxD): 100 x 100 x 50 mm

• Maximum range Bluetooth®: 25 m

• Maximum radio frequency power: -5 dBm

• Minimum distance between Bluetooth® devices: 1,2 m

• Detector settings: Niko detector tool app and 2-way Bluetooth® communication

• Protection degree: IP54

• Protection class: Class II device

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-602121

**Specification text:**

Presence detector, 360°, 230 V, 12 m, master, for surface mounting.

• Surface mounting

• Quick cabling using screwless and easily accessible plug-in terminals

• User-friendly app for commissioning (iOS/Android)

• 2-way Bluetooth communication ensures quick modification of settings and live feedback in the app

• Pre-configured function:

• adjustable PIR sensitivity (4 levels)

• eventlog keeps track of recent changes

• Detection range can be increased using up to 10 slave detectors

• Wireless communication between master and slave detectors

• Robust potential-free relay

• Automatic lighting control can be overridden with a 230 V push button - different options available

• Settings and configuration can be locked with a PIN-code

• Cloud solution for backing up and exchanging configuration files

• IP54 protection degree

Technical data

• Detector technology: PIR

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Maximum power consumption: 0,3 W

• Number of channels: 1 channel

• Light intensity range: 20 lux – 2000 lux, ∞

• Switch-off delay: pulse, 15 s – 2 h, ∞

• Detection angle: 360 °

• Detection range (PIR): up to 12 m in diameter from a height of 3 m

• Ambient temperature: -25 – 50 °C

• Mounting method: surface mounting

• Mounting height: 2 – 3.5 m

• Relay contact 1: NO (max. µ10 A), potential-free

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Maximum load incandescent and halogen lamps (cosφ=1): 2300 W

• Maximum load fluorescent lamps (cosφ ≥ 0,5): 1200 VA

• Maximum load fluorescent lamps (cosφ ≥ 0,9): 1200 VA

• Maximum load low voltage halogen lamps: 300 W

• Maximum load economy lamps (CFLi): 350 W

• Maximum load LED lamps 230 V: 350 W

• Maximum load LED driver: 500 VA

• Maximum load electronic transformer: 500 VA

• Maximum switching current: 165 A/20 ms – 800 A/200 µs

• Colour: white (RAL 9010)

• Dimensions (HxWxD): 100 x 100 x 50 mm

• Maximum range Bluetooth®: 25 m

• Maximum radio frequency power: -5 dBm

• Minimum distance between Bluetooth® devices: 1,2 m

• Detector settings: Niko detector tool app and 2-way Bluetooth® communication

• Protection degree: IP54

• Protection class: Class II device

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-602221

**Specification text:**

Presence detector, 360°, 230 V, 12 m, master, 2 channel, for surface mounting.

• Surface mounting

• Quick cabling using screwless and easily accessible plug-in terminals

• User-friendly app for commissioning (iOS/Android)

• 2-way Bluetooth® communication ensures quick modification of settings and live feedback in the app

• Pre-configured functions: adjustable PIR sensitivity (4 levels), event log keeps track of recent changes

• Each channel can be set independently

• Detection range can be increased using up to 10 slave detectors

• Wireless communication between master and slave detectors is possible

• Robust potential-free relay

• Automatic lighting control can be overridden with a 230 V push button, one for each channel , different options available

• Settings and configuration can be locked with a PIN code

• Cloud solution for backing up and exchanging configuration files

• IP54 protection degree

Technical data

• Detector technology: PIR

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Maximum power consumption: 0,4 W

• Number of channels: 2 channels

• Light intensity range: 20 lux – 2000 lux, ∞

• Switch-off delay: pulse, 15 s – 2 h, ∞

• Detection angle: 360 °

• Detection range (PIR): up to 12 m in diameter from a height of 3 m

• Ambient temperature: -25 – 50 °C

• Mounting method: surface mounting

• Mounting height: 2 – 3.5 m

• Relay contact 1: 2 x NO (max. µ10 A), potential-free

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Maximum load incandescent and halogen lamps (cosφ=1): 2300 W

• Maximum load fluorescent lamps (cosφ ≥ 0,5): 1200 VA

• Maximum load fluorescent lamps (cosφ ≥ 0,9): 1200 VA

• Maximum load low voltage halogen lamps: 300 W

• Maximum load economy lamps (CFLi): 350 W

• Maximum load LED lamps 230 V: 350 W

• Maximum load LED driver: 500 VA

• Maximum load electronic transformer: 500 VA

• Maximum switching current: 165 A/20 ms – 800 A/200 µs

• Colour: white (RAL 9010)

• Dimensions (HxWxD): 100 x 100 x 50 mm

• Maximum range Bluetooth®: 25 m

• Maximum radio frequency power: -5 dBm

• Minimum distance between Bluetooth® devices: 1,2 m

• Detector settings: Niko detector tool app and 2-way Bluetooth® communication

• Protection degree: IP54

• Protection class: Class II device

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-650021

**Specification text:**

Presence detector, 360°, DALI, 12 m, slave, for flush-mounting box.

• Flat and discrete design

• Easy installation thanks to the direct connection to the DALI bus

• Communication with the master via the DALI bus

• Power supply via the DALI bus

• Easy mounting in a standard flush-mounting box (60 or 79 mm diagonal screw distance)

• Quick cabling using screwless and easily accessible plug-in terminals

• User-friendly app for settings (iOS/Android)

• 2-way Bluetooth communication ensures quick modification of settings and live feedback in the app

• Pre-configured functions: event log keeps track of recent changes

• Settings and configuration can be locked with a PIN-code

• DALI-2 compliant

Technical data

• Detector technology: PIR

• Input voltage: via DALI bus

• Maximum power consumption: 0,2 W

• Detection angle: 360 °

• Detection range (PIR): up to 12 m in diameter from a height of 3 m

• Ambient temperature: -25 – 50 °C

• Mounting method: flush-mounting box

• Mounting height: 2 – 3,5 m

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Colour: white (RAL 9010)

• Dimensions (HxWxD): 100 x 100 x 44,5 mm

• Maximum range Bluetooth®: 25 m

• Maximum radio frequency power: -5 dBm

• Minimum distance between Bluetooth® devices: 1,2 m

• Detector settings: Niko detector tool app and 2-way Bluetooth® communication

• Protection degree: IP20

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-650321

**Specification text:**

Presence detector, 360°, DALI standard, 12 m, master, for flush-mounting box.

• Surface mounting

• Lighting control in up to 4 zones (daylight/secondary)

• Lighting zones can be controlled wirelessly by push buttons

• Quick cabling using screwless and easily accessible plug-in terminals

• Commissioning using app (iOS/Android) and 2-way Bluetooth® communication

• Supports DALI broadcast (default) and DALI addressable (up to 64 devices)

• Pre-configured functions: Auto configuration / orientation light / 2 level control, Light scenarios – define and control up to 16 light scenarios, Wireless communication master-to-master enabling: folding door and/or lighting control in adjacent areas, unlimited DALI devices ( > 64 DALI devices), Multi zone for (smart) board lighting, Tunable white using integrated presets or third-party integration , Output relay - control HVAC / standby minimization / light, External relay for HVAC / standby minimization, Adjustable turn-on level when daylight control is disabled, Adjustable PIR sensitivity (4 levels) , Event log keeps track of recent changes

• DALI lighting control can be overridden with a 230 V push button

• External input devices via DALI bus - up to 64 devices (DALI-2 compliant)

• External trigger can be connected e.g. security alarm

• Cloud solution for backing up and exchanging configuration files

• Settings and configuration can be locked with a PIN code

• IP54 protection degree

• Suitable for BMS integration

Technical data

• Detector technology: PIR

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Maximum power consumption: 0,4 W

• Maximum voltage on the DALI bus: 13,5 V

• Maximum current on the DALI bus: 100 mA

• Maximum number of slaves on the DALI bus: 10 Pieces

• Maximum number of control gear on the DALI bus: 64 pieces

• Number of dimmable zones: 3 pieces

• Light intensity range: 20 lux – 2000 lux, ∞

• Switch-off delay: pulse, 15 s – 2 h, ∞

• Detection angle: 360 °

• Detection range (PIR): up to 12 m in diameter from a height of 3 m

• Ambient temperature: -25 – 50 °C

• Mounting method: flush-mounting box

• Mounting height: 2 – 3,5 m

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Colour: white (RAL 9010)

• Dimensions (HxWxD): 100 x 100 x 44,5 mm

• Maximum range Bluetooth®: 25 m

• Maximum radio frequency power: -5 dBm

• Minimum distance between Bluetooth® devices: 1,2 m

• Detector settings: Niko detector tool app and 2-way Bluetooth® communication

• Protection degree: IP20

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-650921

**Specification text:**

Presence detector, 360°, DALI BMS, 12 m, for flush-mounting box.

• Flat and discrete design

• Presence and lux level information is instantly sent to the controller

• Adjustable hysteresis for lux level and presence changes to minimize bus traffic

• Easy mounting in a standard flush-mounting box (60 or 79 mm diagonal screw distance)

• Quick cabling using screwless and easily accessible plug-in terminals

• Pre-configured functions: adjustable PIR sensitivity (4 levels), event log keeps track of recent changes

• Settings and configuration can be locked with a PIN code

• DALI-2 compliant

Technical data

• Detector technology: PIR

• Input voltage: via DALI bus

• Maximum power consumption: 0,2 W

• Light intensity range: 0 lux – 10360 lux

• Detection angle: 360 °

• Detection range (PIR): up to 12 m in diameter from a height of 3 m

• Ambient temperature: -25 – 50 °C

• Mounting method: flush-mounting box

• Mounting height: 2 – 3,5 m

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Colour: white (RAL 9010)

• Dimensions (HxWxD): 100 x 100 x 44,5 mm

• Maximum range Bluetooth®: 25 m

• Maximum radio frequency power: -5 dBm

• Minimum distance between Bluetooth® devices: 1,2 m

• Detector settings: Niko detector tool app and 2-way Bluetooth® communication

• Protection degree: IP20

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-651021

**Specification text:**

Presence detector, 360°, DALI, 12 m, slave, for flush mounting.

• Flat and discrete design

• Easy installation thanks to the direct connection to the DALI bus

• Communication with the master via the DALI bus

• Power supply via the DALI bus

• SnapFit mounting bracket (patent pending) for easy and stable mounting in all types of suspended ceilings with or without removable tiles

• Quick cabling using screwless and easily accessible plug-in terminals

• Screwless strain relief and screwless installation of cable cover

• User-friendly app for settings (iOS/Android)

• 2-way Bluetooth communication ensures quick modification of settings and live feedback in the app

• Pre-configured functions: event log keeps track of recent changes

• Settings and configuration can be locked with a PIN-code

• DALI-2 compliant

Technical data

• Detector technology: PIR

• Input voltage: via DALI bus

• Maximum power consumption: 0,2 W

• Detection angle: 360 °

• Detection range (PIR): up to 12 m in diameter from a height of 3 m

• Ambient temperature: -25 – 50 °C

• Mounting method: flush-mounting

• Drill diameter: 76 mm

• Mounting height: 2 – 3,5 m

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Colour: white (RAL 9010)

• Dimensions (HxWxD): 120 x 120 x 66,4 mm

• Maximum range Bluetooth®: 25 m

• Maximum radio frequency power: -5 dBm

• Minimum distance between Bluetooth® devices: 1,2 m

• Detector settings: Niko detector tool app and 2-way Bluetooth® communication

• Protection degree: IP20

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-651321

**Specification text:**

Presence detector, 360°, DALI standard, 12 m, master, for flush mounting.

• Flat and discrete design

• Daylight control in 1-3 daylight zones

• SnapFit mounting bracket (patent pending) for easy and stable mounting in all types of suspended ceilings with or without removable tiles

• Quick cabling using screwless and easily accessible plug-in terminals

• Screwless strain relief and screwless installation of cable cover

• User-friendly app for settings (iOS/Android)

• 2-way Bluetooth communication ensures quick modification of settings and live feedback in the app

• Supports DALI broadcast (default) and DALI addressable

• Supports one zone auto assignment in DALI addressable mode

• Pre-configured functions: auto configuration when replacing one DALI ballast/DALI device, orientation light, adjustable power-on level when daylight control is disabled, adjustable PIR sensitivity (4 levels) , tunable white third-party integration, event log keeps track of recent changes

• DALI lighting control can be overridden with a 230 V push button

• Suitable for controlling up to 64 DALI devices

• Settings and configuration can be locked with a PIN code

• Cloud solution for backing up and exchanging configuration files

• Suitable for BMS integration

• DALI-2 compliant

Technical data

• Detector technology: PIR

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Maximum power consumption: 0,4 W

• Maximum current on the DALI bus: 100 mA

• Maximum number of slaves on the DALI bus: 10 Pieces

• Maximum number of control gear on the DALI bus: 64 pieces

• Number of dimmable zones: 3 pieces

• Light intensity range: 20 lux – 2000 lux, ∞

• Switch-off delay: pulse, 15 s – 2 h, ∞

• Detection angle: 360 °

• Detection range (PIR): up to 12 m in diameter from a height of 3 m

• Ambient temperature: -25 – 50 °C

• Mounting method: flush-mounting

• Drill diameter: 76 mm

• Mounting height: 2 – 3,5 m

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Colour: white (RAL 9010)

• Dimensions (HxWxD): 120 x 120 x 66,4 mm

• Maximum range Bluetooth®: 25 m

• Maximum radio frequency power: -5 dBm

• Minimum distance between Bluetooth® devices: 1,2 m

• Detector settings: Niko detector tool app and 2-way Bluetooth® communication

• Protection degree: IP20

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-651421

**Specification text:**

Presence detector, 360°, DALI comfort, 12 m, master, for flush mounting.

• Flat and discrete design

• Lighting control in up to 4 zones (daylight/secondary)

• SnapFit mounting bracket for easy and stable mounting

• Quick cabling using screwless and easily accessible plug-in terminals

• Commissioning using app (iOS/Android) and 2-way Bluetooth® communication

• Supports DALI broadcast (default) and DALI addressable (up to 64 devices)

• Pre-configured functions Auto configuration / orientation light / 2 level control, Light scenarios – define and control up to 16 light scenarios, Wireless communication master-to-master enabling: folding door, lighting control in adjacent areas, unlimited DALI devices ( > 64 DALI devices), Multi zone for (smart) board lighting, Tunable white using integrated presets or third-party integration , Output relay - control HVAC / standby minimization / light, External relay for HVAC / standby minimization, Adjustable turn-on level when daylight control is disabled, Event log keeps track of recent changes

• DALI lighting control can be overridden with a 230 V push button

• External input devices via DALI bus - up to 64 devices (DALI-2 compliant)

• External trigger can be connected e.g. security alarm

• Cloud solution for backing up and exchanging configuration files

• Settings and configuration can be locked with a PIN code

• Suitable for BMS integration

Technical data

• Detector technology: PIR

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Maximum power consumption: 0,5 W

• Maximum power consumption wireless link active: 0,6 W

• Maximum voltage on the DALI bus: 13,5 V

• Maximum current on the DALI bus: 200 mA

• Maximum number of slaves on the DALI bus: 10 Pieces

• Maximum number of control gear on the DALI bus: 64 pieces

• Number of dimmable zones: 4 pieces

• Number of channels: 1 channel

• Light intensity range: 20 lux – 2000 lux, ∞

• Switch-off delay: pulse, 15 s – 2 h, ∞

• Detection angle: 360 °

• Detection range (PIR): up to 12 m in diameter from a height of 3 m

• Ambient temperature: -25 – 50 °C

• Mounting method: flush-mounting

• Drill diameter: 76 mm

• Mounting height: 2 – 3,5 m

• Relay contact 1: NO (max. µ10 A), potential-free

• Potential-free contact: NO, 230 V, µ10 A

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Maximum load incandescent and halogen lamps (cosφ=1): 2300 W

• Maximum load fluorescent lamps (cosφ ≥ 0,5): 1200 VA

• Maximum load low voltage halogen lamps: 500 W

• Maximum load economy lamps (CFLi): 350 W

• Maximum load LED lamps 230 V: 350 W

• Maximum load LED driver: 500 VA

• Maximum load electronic transformer: 500 VA

• Maximum capacitive load: 140 µF

• Maximum switching current: 165 A/20 ms – 800 A/200 µs

• Colour: white (RAL 9010)

• Dimensions (HxWxD): 120 x 120 x 109,5 mm

• Maximum range Bluetooth®: 25 m

• Maximum radio frequency power: -5 dBm

• Minimum distance between Bluetooth® devices: 1,2 m

• Detector settings: Niko detector tool app and 2-way Bluetooth® communication

• Protection degree: IP20

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-651921

**Specification text:**

Presence detector, 360°, DALI BMS, 12 m, for flush mounting.

• Flat and discrete design

• Presence and lux level information is instantly sent to the controller

• Adjustable hysteresis for lux level and presence changes to minimize bus traffic

• SnapFit mounting bracket (patent pending) for easy and stable mounting in all types of suspended ceilings with or without removable tiles

• Quick cabling using screwless and easily accessible plug-in terminals

• Screwless strain relief and screwless installation of cable cover

• Pre-configured functions: adjustable PIR sensitivity (4 levels), event log keeps track of recent changes

• Settings and configuration can be locked with a PIN code

• DALI-2 compliant

Technical data

• Detector technology: PIR

• Input voltage: via DALI bus

• Maximum power consumption: 0,2 W

• Light intensity range: 0 lux – 10360 lux

• Detection angle: 360 °

• Detection range (PIR): up to 12 m in diameter from a height of 3 m

• Ambient temperature: -25 – 50 °C

• Mounting method: flush-mounting

• Drill diameter: 76 mm

• Mounting height: 2 – 3,5 m

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Colour: white (RAL 9010)

• Dimensions (HxWxD): 120 x 120 x 66,4 mm

• Maximum range Bluetooth®: 25 m

• Maximum radio frequency power: -5 dBm

• Minimum distance between Bluetooth® devices: 1,2 m

• Detector settings: Niko detector tool app and 2-way Bluetooth® communication

• Protection degree: IP20

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-652021

**Specification text:**

Presence detector, 360°, DALI, 12 m, slave, for surface mounting.

• Surface mounting

• Easy installation thanks to the direct connection to the DALI bus

• Communication with the master via the DALI bus

• Power supply via the DALI bus

• Quick cabling using screwless and easily accessible plug-in terminals

• Screwless strain relief and screwless installation of cable cover

• User-friendly app for settings (iOS/Android)

• 2-way Bluetooth® communication ensures quick modification of settings and live feedback in the app

• Pre-configured functions: event log keeps track of recent changes

• Settings and configuration can be locked with a PIN code

• IP54 protection degree

• DALI-2 compliant

Technical data

• Detector technology: PIR

• Input voltage: via DALI bus

• Maximum power consumption: 0,2 W

• Light intensity range: 0 lux – 10360 lux

• Detection angle: 360 °

• Detection range (PIR): up to 12 m in diameter from a height of 3 m

• Ambient temperature: -25 – 50 °C

• Mounting method: surface mounting

• Mounting height: 2 – 3.5 m

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Colour: white (RAL 9010)

• Dimensions (HxWxD): 100 x 100 x 50 mm

• Maximum range Bluetooth®: 25 m

• Maximum radio frequency power: -5 dBm

• Minimum distance between Bluetooth® devices: 1,2 m

• Detector settings: Niko detector tool app and 2-way Bluetooth® communication

• Protection degree: IP54

• Protection class: Class II device

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-652321

**Specification text:**

Presence detector, 360°, DALI standard, 12 m, master, for surface mounting.

• Surface mounting

• Daylight control in 1-3 daylight zones

• Quick cabling using screwless and easily accessible plug-in terminals

• User-friendly app for commissioning (iOS/Android)

• 2-way Bluetooth® communication ensures quick commissioning and live feedback in the app

• Supports DALI broadcast (default) and DALI addressable

• Supports one zone auto assignment in DALI addressable mode

• Pre-configured functions:

- auto configuration when replacing one DALI ballast/DALI device

- orientation light

- adjustable power-on level when daylight control is disabled

- adjustable PIR sensitivity (4 levels)

- tunable white third-party integration

- event log keeps track of recent changes

• DALI lighting control can be overridden with a 230 V push button

• Suitable for controlling up to 64 DALI devices

• Settings and configuration can be locked with a PIN-code

• Cloud solution for backing up and exchanging configuration files

• IP54 protection degree

• Suitable for BMS integration

• DALI-2 compliant

Technical data

• Detector technology: PIR

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Maximum power consumption: 0,4 W

• Maximum voltage on the DALI bus: 13,5 V

• Maximum current on the DALI bus: 100 mA

• Maximum number of slaves on the DALI bus: 10 Pieces

• Maximum number of control gear on the DALI bus: 64 pieces

• Number of dimmable zones: 3 pieces

• Light intensity range: 20 lux – 2000 lux, ∞

• Switch-off delay: pulse, 15 s – 2 h, ∞

• Detection angle: 360 °

• Detection range (PIR): up to 12 m in diameter from a height of 3 m

• Ambient temperature: -25 – 50 °C

• Mounting method: surface mounting

• Mounting height: 2 – 3,5 m

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Colour: white (RAL 9010)

• Dimensions (HxWxD): 100 x 100 x 50 mm

• Maximum range Bluetooth®: 25 m

• Maximum radio frequency power: -5 dBm

• Minimum distance between Bluetooth® devices: 1,2 m

• Detector settings: Niko detector tool app and 2-way Bluetooth® communication

• Protection degree: IP54

• Protection class: Class II device

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-652421

**Specification text:**

Presence detector, 360°, DALI comfort, 12 m, master, for surface mounting.

• Surface mounting

• Lighting control in up to 4 zones (daylight/secondary)

• Quick cabling using screwless and easily accessible plug-in terminals

• Commissioning using app (iOS/Android) and 2-way Bluetooth communication

• Supports DALI broadcast (default) and DALI addressable (up to 64 devices)

• Pre-configured functions: Auto configuration / orientation light / 2 level control, Light scenarios – define and control up to 16 light scenarios, Wireless communication master-to-master enabling: folding door, lighting control in adjacent areas, unlimited number of DALI devices ( > 64 DALI devices), Multi zone for (smart) board lighting, Adjustable PIR sensitivity (4 levels) , Tunable white using integrated presets or third-party integration , Output relay - control HVAC / standby minimization / light, External relay for HVAC / standby minimization, Adjustable turn-on level when daylight control is disabled, Event log keeps track of recent changes

• DALI lighting control can be overridden with a 230 V push button

• External input devices via DALI bus - up to 64 devices (DALI-2 compliant)

• External trigger can be connected e.g. security alarm

• Cloud solution for backing up and exchanging configuration files

• Settings and configuration can be locked with a PIN code

• IP54 protection degree

• Suitable for BMS integration

Technical data

• Detector technology: PIR

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Maximum power consumption: 0,5 W

• Maximum power consumption wireless link active: 0,6 W

• Maximum voltage on the DALI bus: 13,5 V

• Maximum current on the DALI bus: 200 mA

• Maximum number of slaves on the DALI bus: 10 Pieces

• Maximum number of control gear on the DALI bus: 64 pieces

• Number of dimmable zones: 4 pieces

• Number of channels: 1 channel

• Light intensity range: 20 lux – 2000 lux, ∞

• Switch-off delay: pulse, 15 s – 2 h, ∞

• Detection angle: 360 °

• Detection range (PIR): up to 12 m in diameter from a height of 3 m

• Ambient temperature: -25 – 50 °C

• Mounting method: surface mounting

• Mounting height: 2 – 3,5 m

• Relay contact 1: NO (max. µ10 A), potential-free

• Potential-free contact: NO, 230 V, µ10 A

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Maximum load incandescent and halogen lamps (cosφ=1): 2300 W

• Maximum load fluorescent lamps (cosφ ≥ 0,5): 1200 VA

• Maximum load fluorescent lamps (cosφ ≥ 0,9): 1200 VA

• Maximum load low voltage halogen lamps: 300 W

• Maximum load economy lamps (CFLi): 350 W

• Maximum load LED lamps 230 V: 350 W

• Maximum load LED driver: 500 VA

• Maximum load electronic transformer: 500 VA

• Maximum switching current: 165 A/20 ms – 800 A/200 µs

• Colour: white (RAL 9010)

• Dimensions (HxWxD): 100 x 100 x 50 mm

• Maximum range Bluetooth®: 25 m

• Maximum radio frequency power: -5 dBm

• Minimum distance between Bluetooth® devices: 1,2 m

• Detector settings: Niko detector tool app and 2-way Bluetooth® communication

• Protection degree: IP54

• Protection class: Class II device

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-652921

**Specification text:**

Presence detector, 360°, DALI BMS, 12 m, for surface mounting.

• Surface mounting

• Presence and lux level information is instantly sent to the controller

• Adjustable hysteresis for lux level and presence changes to minimize bus traffic

• Quick cabling using screwless and easily accessible plug-in terminals

• Pre-configured function: adjustable PIR sensitivity (4 levels), event log keeps track of recent changes

• Settings and configuration can be locked with a PIN code

• IP54 protection degree

• DALI-2 compliant

Technical data

• Detector technology: PIR

• Input voltage: via DALI bus

• Maximum power consumption: 0,2 W

• Light intensity range: 0 lux – 10360 lux

• Detection angle: 360 °

• Detection range (PIR): up to 12 m in diameter from a height of 3 m

• Ambient temperature: -25 – 50 °C

• Mounting method: surface mounting

• Mounting height: 2 – 3.5 m

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Colour: white (RAL 9010)

• Dimensions (HxWxD): 100 x 100 x 50 mm

• Maximum range Bluetooth®: 25 m

• Maximum radio frequency power: -5 dBm

• Minimum distance between Bluetooth® devices: 1,2 m

• Detector settings: Niko detector tool app and 2-way Bluetooth® communication

• Protection degree: IP54

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-661421

**Specification text:**

Presence detector, 360°, DALI comfort, wireless, 12 m, master, for flush mounting.

• Flat and discrete design

• Lighting control in up to 4 zones (daylight/secondary)

• Lighting zones can be controlled wirelessly by push buttons

• SnapFit mounting bracket for easy and stable mounting

• Quick cabling using screwless and easily accessible plug-in terminals

• Commissioning using app (iOS/Android) and 2-way Bluetooth® communication

• Supports DALI broadcast (default) and DALI addressable (up to 64 devices)

• Pre-configured functions: Auto configuration / orientation light / 2 level control, Light scenarios – define and control up to 16 light scenarios, Wireless communication master-to-master enabling: folding door, lighting control in adjacent areas, unlimited DALI devices ( > 64 DALI devices), Multi zone for board lighting and smart board lighting, Tunable white using integrated presets or third-party integration , Output relay - control HVAC / standby minimization / light, External relay for HVAC / standby minimization, Adjustable turn-on level when daylight control is disabled, Event log keeps track of recent changes

 • DALI lighting control can be overridden with a 230 V push button

 • External input devices via DALI bus - up to 64 devices (DALI-2 compliant)

• External trigger can be connected e.g. security alarm

• Cloud solution for backing up and exchanging configuration files

• Settings and configuration can be locked with a PIN code

• Suitable for BMS integration

Technical data

• Detector technology: PIR

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Maximum power consumption: 0,5 W

• Maximum power consumption wireless link active: 0,6 W

• Maximum voltage on the DALI bus: 13,5 V

• Maximum current on the DALI bus: 200 mA

• Maximum number of slaves on the DALI bus: 10 Pieces

• Maximum number of control gear on the DALI bus: 64 pieces

• Number of dimmable zones: 4 pieces

• Number of channels: 1 channel

• Light intensity range: 20 lux – 2000 lux, ∞

• Switch-off delay: pulse, 15 s – 2 h, ∞

• Detection angle: 360 °

• Detection range (PIR): up to 12 m in diameter from a height of 3 m

• Ambient temperature: -25 – 50 °C

• Mounting method: flush-mounting

• Drill diameter: 76 mm

• Mounting height: 2 – 3,5 m

• Relay contact 1: NO (max. µ10 A)

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Maximum load incandescent and halogen lamps (cosφ=1): 2300 W

• Maximum load fluorescent lamps (cosφ ≥ 0,5): 1200 VA

• Maximum load fluorescent lamps (cosφ ≥ 0,9): 1200 VA

• Maximum load low voltage halogen lamps: 500 W

• Maximum load economy lamps (CFLi): 350 W

• Maximum load LED lamps 230 V: 350 W

• Maximum load LED driver: 500 VA

• Maximum load electronic transformer: 500 VA

• Maximum capacitive load: 140 µF

• Maximum switching current: 165 A/20 ms – 800 A/200 µs

• Colour: white (RAL 9010)

• Dimensions (HxWxD): 120 x 120 x 109,5 mm

• Maximum range Bluetooth®: 25 m

• Maximum radio frequency power: -5 dBm

• Minimum distance between Bluetooth® devices: 1,2 m

• Detector settings: Niko detector tool app and 2-way Bluetooth® communication

• Protection degree: IP20

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-662421

**Specification text:**

Presence detector, 360°, DALI comfort, wireless, 12 m, master, for surface mounting.

• Flat and discrete design

• Daylight control in 1-3 daylight zones

• Easy mounting in a standard flush-mounting box (60 or 79 mm screw distance)

• Quick cabling using screwless and easily accessible plug-in terminals

• User-friendly app for settings (iOS/Android)

• 2-way Bluetooth communication ensures quick modification of settings and live feedback in the app

• Supports DALI broadcast (default) and DALI addressable

• Supports one zone auto assignment in DALI addressable mode

• Pre-configured functions: auto configuration when replacing one DALI ballast/DALI device, orientation light, adjustable power-on level when daylight control is disabled, adjustable PIR sensitivity (4 levels) , tunable white third-party integration, event log keeps track of recent changes

• DALI lighting control can be overridden with a 230 V push button

• Suitable for controlling up to 64 DALI devices

• Settings and configuration can be locked with a PIN code

• Cloud solution for backing up and exchanging configuration files

• Suitable for BMS integration

• DALI-2 compliant

Technical data

• Detector technology: PIR

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Maximum power consumption: 0,5 W

• Maximum power consumption wireless link active: 0,6 W

• Maximum voltage on the DALI bus: 13,5 V

• Maximum current on the DALI bus: 200 mA

• Maximum number of slaves on the DALI bus: 10 Pieces

• Maximum number of control gear on the DALI bus: 64 pieces

• Number of dimmable zones: 4 pieces

• Number of channels: 1 channel

• Light intensity range: 20 lux – 2000 lux, ∞

• Switch-off delay: pulse, 15 s – 2 h, ∞

• Detection angle: 360 °

• Detection range (PIR): up to 12 m in diameter from a height of 3 m

• Ambient temperature: -25 – 50 °C

• Mounting method: surface mounting

• Mounting height: 2 – 3.5 m

• Relay contact 1: NO (max. µ10 A), potential-free

• Potential-free contact: NO, 230 V, µ10 A

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Maximum load incandescent and halogen lamps (cosφ=1): 2300 W

• Maximum load fluorescent lamps (cosφ ≥ 0,5): 1200 VA

• Maximum load fluorescent lamps (cosφ ≥ 0,9): 1200 VA

• Maximum load low voltage halogen lamps: 300 W

• Maximum load economy lamps (CFLi): 350 W

• Maximum load LED lamps 230 V: 350 W

• Maximum load LED driver: 500 VA

• Maximum load electronic transformer: 500 VA

• Maximum switching current: 165 A/20 ms – 800 A/200 µs

• Colour: white (RAL 9010)

• Dimensions (HxWxD): 100 x 100 x 50 mm

• Maximum range Bluetooth®: 25 m

• Maximum radio frequency power: -5 dBm

• Minimum distance between Bluetooth® devices: 1,2 m

• Detector settings: Niko detector tool app and 2-way Bluetooth® communication

• Protection degree: IP54

• Protection class: Class II device

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-700021

**Specification text:**

Presence detector, 360°, 230 V, 28 m, slave, for flush-mounting box. IP20

• Easy mounting in a standard flush-mounting box (60 or 79 mm diagonal screw distance)

• Quick cabling using screwless and easily accessible plug-in terminals

• User-friendly app for settings (iOS/Android)

• 2-way Bluetooth communication ensures quick modification of settings and live feedback in the app

• Fitted with three PIR sensors, each covering 120°

• Pre-configured functions: adjustable PIR sensitivity (4 levels) in 3 x 120°, one or more PIR sensors can be disabled, event log keeps track of recent changes

• Wireless communication between master and slave detectors

• Settings and configuration can be locked with a PIN code

Technical data

• Detector technology: PIR

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Maximum power consumption: 0,3 W

• Detection angle: 360 °

• Detection range (PIR): up to 28 m in diameter from a height of 3 m

• Ambient temperature: -25 – 50 °C

• Mounting method: flush-mounting box

• Mounting height: 2 – 3,5 m

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Colour: white (RAL 9010)

• Dimensions (HxWxD): 100 x 100 x 77,2 mm

• Maximum range Bluetooth®: 25 m

• Maximum radio frequency power: -5 dBm

• Minimum distance between Bluetooth® devices: 1,2 m

• Detector settings: Niko detector tool app and 2-way Bluetooth® communication

• Protection degree: IP20

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-700121

**Specification text:**

Presence detector, 360°, 230 V, 28 m, master, for flush-mounting box. IP20

• Easy mounting in a standard flush-mounting box (60 or 79 mm diagonal screw distance)

• Quick cabling using screwless and easily accessible plug-in terminals

• User-friendly app for commissioning (iOS/Android)

• 2-way Bluetooth communication ensures quick modification of settings and live feedback in the app

• Fitted with three PIR sensors, each covering 120°

• Pre-configured functions: adjustable PIR sensitivity (4 levels) in 3 x 120°, one or more PIR sensors can be disabled, event log keeps track of recent changes

• Detection range can be increased using up to 10 slave detectors

• Wireless communication between master- and slave detectors

• Robust potential-free relay

• Automatic lighting control can be overridden with a 230 V push button - different options available

• Settings and configuration can be locked with a PIN code

• Cloud solution for backing up and exchanging configuration files

Technical data

• Detector technology: PIR

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Maximum power consumption: 0,3 W

• Number of channels: 1 channel

• Light intensity range: 20 lux – 2000 lux, ∞

• Hysteresis on light sensitivity: + 10 %

• Switch-off delay: pulse, 15 s – 2 h, ∞

• Detection angle: 360 °

• Detection range (PIR): up to 28 m in diameter from a height of 3 m

• Ambient temperature: -25 – 50 °C

• Mounting method: flush-mounting box

• Mounting height: 2 – 3,5 m

• Relay contact 1: NO (max. µ10 A), potential-free

• Potential-free contact: NO, 230 V, µ10 A

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Maximum load incandescent and halogen lamps (cosφ=1): 2300 W

• Maximum load fluorescent lamps (cosφ ≥ 0,5): 1200 VA

• Maximum load low voltage halogen lamps: 500 W

• Maximum load economy lamps (CFLi): 350 W

• Maximum load LED lamps 230 V: 350 W

• Maximum load LED driver: 500 VA

• Maximum capacitive load: 140 µF

• Maximum switching current: 165 A/20 ms – 800 A/200 µs

• Colour: white (RAL 9010)

• Dimensions (HxWxD): 100 x 100 x 77,2 mm

• Maximum range Bluetooth®: 25 m

• Maximum radio frequency power: -5 dBm

• Minimum distance between Bluetooth® devices: 1,2 m

• Detector settings: Niko detector tool app and 2-way Bluetooth® communication

• Protection degree: IP20

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-70020

**Specification text:**

DALI push-button interface.

• Ambient temperature: 5 – 40 °C

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-701021

**Specification text:**

Presence detector, 360°, 230 V, 28 m, slave, for flush mounting. IP20

• SnapFit mounting bracket (patent pending) for easy and stable mounting in all types of suspended ceilings with or without removable tiles

• Quick cabling using screwless and easily accessible plug-in terminals

• Screwless strain relief and screwless installation of cable cover

• User-friendly app for commissioning (iOS/Android)

• 2-way Bluetooth communication ensures quick modification of settings and live feedback in the app

• Fitted with three PIR sensors, each covering 120°

• Pre-configured functions: adjustable PIR sensitivity (4 levels) in 3 x 120°, one or more PIR sensors can be disabled, event log keeps track of recent changes

• Wireless communication between master and slave detectors

• Settings and configuration can be locked with a PIN code

Technical data

• Detector technology: PIR

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Maximum power consumption: 0,3 W

• Detection angle: 360 °

• Detection range (PIR): up to 28 m in diameter from a height of 3 m

• Ambient temperature: -25 – 50 °C

• Mounting method: flush-mounting

• Drill diameter: 76 mm

• Mounting height: 2 – 3,5 m

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Colour: white (RAL 9010)

• Dimensions (HxWxD): 120 x 120 x 99,1 mm

• Maximum range Bluetooth®: 25 m

• Maximum radio frequency power: -5 dBm

• Minimum distance between Bluetooth® devices: 1,2 m

• Detector settings: Niko detector tool app and 2-way Bluetooth® communication

• Protection degree: IP20

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-701121

**Specification text:**

Presence detector, 360°, 230 V, 28 m, master, for flush mounting. IP20

• SnapFit mounting bracket (patent pending) for easy and stable mounting in all types of suspended ceilings with or without removable tiles

• Quick cabling using screwless and easily accessible plug-in terminals

• Screwless strain relief and screwless installation of cable cover

• User-friendly app for commissioning (iOS/Android)

• 2-way Bluetooth communication ensures quick modification of settings and live feedback in the app

• Fitted with three PIR sensors, each covering 120°

• Pre-configured functions: adjustable PIR sensitivity (4 levels) in 3 x 120°, one or more PIR sensors can be disabled, event log keeps track of recent changes

• Detection range can be increased using up to 10 slave detectors

• Wireless communication between master- and slave detectors

• Robust potential-free relay

• Automatic lighting control can be overridden with a 230 V push button - different options available

• Settings and configuration can be locked with a PIN code

• Cloud solution for backing up and exchanging configuration files

Technical data

• Detector technology: PIR

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Maximum power consumption: 0,3 W

• Number of channels: 1 channel

• Light intensity range: 20 lux – 2000 lux, ∞

• Switch-off delay: pulse, 15 s – 2 h, ∞

• Detection angle: 360 °

• Detection range (PIR): up to 28 m in diameter from a height of 3 m

• Ambient temperature: -25 – 50 °C

• Mounting method: flush-mounting

• Drill diameter: 76 mm

• Mounting height: 2 – 3,5 m

• Relay contact 1: NO (max. µ10 A), potential-free

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Maximum load incandescent and halogen lamps (cosφ=1): 2300 W

• Maximum load fluorescent lamps (cosφ ≥ 0,5): 1200 VA

• Maximum load low voltage halogen lamps: 500 W

• Maximum load economy lamps (CFLi): 350 W

• Maximum load LED lamps 230 V: 350 W

• Maximum load LED driver: 500 VA

• Maximum load electronic transformer: 500 VA

• Maximum capacitive load: 140 µF

• Maximum switching current: 165 A/20 ms – 800 A/200 µs

• Colour: white (RAL 9010)

• Dimensions (HxWxD): 120 x 120 x 99,1 mm

• Maximum range Bluetooth®: 30 m

• Maximum radio frequency power: -5 dBm

• Minimum distance between Bluetooth® devices: 1,2 m

• Detector settings: Niko detector tool app and 2-way Bluetooth® communication

• Protection degree: IP20

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-701221

**Specification text:**

Presence detector, 360°, 230 V, 28 m, master, 2 channel, for flush mounting.

• each channel can be set independently

• SnapFit mounting bracket (patent pending) for easy and stable mounting in all types of suspended ceilings with or without removable tiles

• Quick cabling using screwless and easily accessible plug-in terminals

• Screwless strain relief and screwless installation of cable cover

• User-friendly app for settings (iOS/Android)

• 2-way Bluetooth communication ensures quick modification of settings and live feedback in the app

• Fitted with three PIR sensors, each covering 120°

• Pre-configured function: adjustable PIR sensitivity (4 levels), one or more PIR sensors can be disabled, event log keeps track of recent changes

• Detection range can be increased using up to 10 slave detectors

• Wireless communication between master- and slave detectors

• Robust potential-free relay

• Automatic lighting control can be overridden with a 230 V push button - different options available

• Settings and configuration can be locked with a PIN code

• Cloud solution for backing up and exchanging configuration files

Technical data

• Detector technology: PIR

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Maximum power consumption: 0,4 W

• Number of channels: 2 channels

• Light intensity range: 20 lux – 2000 lux, ∞

• Hysteresis on light sensitivity: + 10 %

• Switch-off delay: pulse, 15 s – 2 h, ∞

• Detection angle: 360 °

• Detection range (PIR): up to 28 m in diameter from a height of 3 m

• Ambient temperature: -25 – 50 °C

• Mounting method: flush-mounting

• Drill diameter: 76 mm

• Mounting height: 2 – 3,5 m

• Relay contact 1: 2 x NO (max. µ10 A), potential-free

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Maximum load incandescent and halogen lamps (cosφ=1): 2300 W

• Maximum load fluorescent lamps (cosφ ≥ 0,5): 1200 VA

• Maximum load fluorescent lamps (cosφ ≥ 0,9): 1200 VA

• Maximum load low voltage halogen lamps: 500 W

• Maximum load economy lamps (CFLi): 350 W

• Maximum load LED lamps 230 V: 350 W

• Maximum load LED driver: 500 VA

• Maximum load electronic transformer: 500 VA

• Maximum capacitive load: 140 µF

• Maximum switching current: 165 A/20 ms – 800 A/200 µs

• Colour: white (RAL 9010)

• Dimensions (HxWxD): 120 x 120 x 142,2 mm

• Maximum range Bluetooth®: 25 m

• Maximum radio frequency power: -5 dBm

• Minimum distance between Bluetooth® devices: 1,2 m

• Detector settings: Niko detector tool app and 2-way Bluetooth® communication

• Protection degree: IP20

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-702021

**Specification text:**

Presence detector, 360°, 230 V, 28 m, slave, for surface mounting.

• Surface mounting

• Quick cabling using screwless and easily accessible plug-in terminals

• User-friendly app for commissioning (iOS/Android)

• 2-way Bluetooth communication ensures quick modification of settings and live feedback in the app

• Fitted with three PIR sensors, each covering 120°

• Pre-configured functions: adjustable PIR sensitivity (4 levels) in 3 x 120°, one or more PIR sensors can be disabled, event log keeps track of recent changes

• Wireless communication between master and slave detectors

• Settings and configuration can be locked with a PIN-code

• IP54 protection degree

Technical data

• Detector technology: PIR

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Maximum power consumption: 0,3 W

• Detection angle: 360 °

• Detection range (PIR): up to 28 m in diameter from a height of 3 m

• Ambient temperature: -25 – 50 °C

• Mounting method: surface mounting

• Mounting height: 2 – 3.5 m

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Colour: white (RAL 9010)

• Dimensions (HxWxD): 100 x 100 x 70.7 mm

• Maximum range Bluetooth®: 25 m

• Maximum radio frequency power: -5 dBm

• Minimum distance between Bluetooth® devices: 1,2 m

• Detector settings: Niko detector tool app and 2-way Bluetooth® communication

• Protection degree: IP54

• Protection class: Class II device

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-702121

**Specification text:**

Presence detector, 360°, 230 V, 28 m, master, for surface mounting.

• Surface mounting

• Quick cabling using screwless and easily accessible plug-in terminals

• User-friendly app for commissioning (iOS/Android)

• 2-way Bluetooth communication ensures quick modification of settings and live feedback in the app

• Fitted with three PIR sensors, each covering 120°

• Pre-configured functions: adjustable PIR sensitivity (4 levels) in 3 x 120°, one or more PIR sensors can be disabled, event log keeps track of recent changes

• Detection range can be increased using up to 10 slave detectors

• Wireless communication between master and slave detectors

• Robust potential-free relay

• Automatic lighting control can be overridden with a 230 V push button - different options available

• Settings and configuration can be locked with a PIN code

• Cloud solution for backing up and exchanging configuration files

• IP54 protection degree

Technical data

• Detector technology: PIR

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Maximum power consumption: 0,3 W

• Number of channels: 1 channel

• Light intensity range: 20 lux – 2000 lux, ∞

• Switch-off delay: pulse, 15 s – 2 h, ∞

• Detection angle: 360 °

• Detection range (PIR): up to 28 m in diameter from a height of 3 m

• Ambient temperature: -25 – 50 °C

• Mounting method: surface mounting

• Mounting height: 2 – 3,5 m

• Relay contact 1: NO (max. µ10 A), potential-free

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Maximum load incandescent and halogen lamps (cosφ=1): 2300 W

• Maximum load fluorescent lamps (cosφ ≥ 0,5): 1200 VA

• Maximum load fluorescent lamps (cosφ ≥ 0,9): 1200 VA

• Maximum load low voltage halogen lamps: 300 W

• Maximum load economy lamps (CFLi): 350 W

• Maximum load LED lamps 230 V: 350 W

• Maximum load LED driver: 500 VA

• Maximum load electronic transformer: 500 VA

• Maximum switching current: 165 A/20 ms – 800 A/200 µs

• Colour: white (RAL 9010)

• Dimensions (HxWxD): 100 x 100 x 70,7 mm

• Maximum range Bluetooth®: 25 m

• Maximum radio frequency power: -5 dBm

• Minimum distance between Bluetooth® devices: 1,2 m

• Detector settings: Niko detector tool app and 2-way Bluetooth® communication

• Protection degree: IP54

• Protection class: Class II device

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-702221

**Specification text:**

Presence detector, 360°, 230 V, 28 m, master, 2 channel, for surface mounting.

• Surface mounting

• Quick cabling using screwless and easily accessible plug-in terminals

• User-friendly app for commissioning (iOS/Android)

• 2-way Bluetooth communication ensures quick modification of settings and live feedback in the app

• Fitted with three PIR sensors, each covering 120°

• Pre-configured functions:

• adjustable PIR sensitivity (4 levels) in 3 x 120°

• one or more PIR sensors can be disabled

• event log keeps track of recent changes

• Each channel can be set independently

• Detection range can be increased using up to 10 slave detectors

• Wireless communication between master- and slave detectors is possible

• Robust potential-free relay

• Automatic lighting control can be overridden with a 230 V push button, one for each channel - different options available

• Settings and configuration can be locked with a PIN code

• Cloud solution for backing up and exchanging configuration files

• IP54 protection degree

Technical data

• Detector technology: PIR

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Maximum power consumption: 0,4 W

• Number of channels: 2 channels

• Light intensity range: 20 lux – 2000 lux, ∞

• Switch-off delay: pulse, 15 s – 2 h, ∞

• Detection angle: 360 °

• Detection range (PIR): up to 28 m in diameter from a height of 3 m

• Ambient temperature: -25 – 50 °C

• Mounting method: surface mounting

• Mounting height: 2 – 3.5 m

• Relay contact 1: 2 x NO (max. µ10 A), potential-free

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Maximum load incandescent and halogen lamps (cosφ=1): 2300 W

• Maximum load fluorescent lamps (cosφ ≥ 0,5): 1200 VA

• Maximum load fluorescent lamps (cosφ ≥ 0,9): 1200 VA

• Maximum load low voltage halogen lamps: 300 W

• Maximum load economy lamps (CFLi): 350 W

• Maximum load LED lamps 230 V: 350 W

• Maximum load LED driver: 500 VA

• Maximum load electronic transformer: 500 VA

• Maximum switching current: 165 A/20 ms – 800 A/200 µs

• Colour: white (RAL 9010)

• Dimensions (HxWxD): 100 x 100 x 70.7 mm

• Maximum range Bluetooth®: 25 m

• Maximum radio frequency power: -5 dBm

• Minimum distance between Bluetooth® devices: 1,2 m

• Detector settings: Niko detector tool app and 2-way Bluetooth® communication

• Protection degree: IP54

• Protection class: Class II device

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-70985

**Specification text:**

Compact power supply for DALI bus systems.

• Minimum ambient temperature: 0 °C

• Maximum ambient temperature: +50 °C

• Protection degree: IP20

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-750021

**Specification text:**

Presence detector, 360°, DALI, 28 m, slave, for flush-mounting box. IP20

• Easy installation thanks to the direct connection to the DALI bus

• Communication with the master via the DALI bus

• Power supply via the DALI bus

• Easy mounting in a standard European-flush mounting box

• Quick cabling using screwless and easily accessible plug-in terminals

• User-friendly app for settings (iOS/Android)

• 2-way Bluetooth communication ensures quick modification of settings and live feedback in the app

• Fitted with three PIR sensors, each covering 120°

• Pre-configured functions: adjustable PIR sensitivity (4 levels) in 3 x 120°, one or more PIR sensors can be disabled, event log keeps track of recent changes

• Settings and configuration can be locked with a PIN-code

• DALI-2 compliant

Technical data

• Detector technology: PIR

• Input voltage: via DALI bus

• Maximum power consumption: 0,2 W

• Detection angle: 360 °

• Detection range (PIR): up to 28 m in diameter from a height of 3 m

• Ambient temperature: -25 – 50 °C

• Mounting method: flush-mounting box

• Mounting height: 2 – 3,5 m

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Colour: white (RAL 9010)

• Dimensions (HxWxD): 100 x 100 x 77,2 mm

• Maximum range Bluetooth®: 30 m

• Maximum radio frequency power: -5 dBm

• Minimum distance between Bluetooth® devices: 1,2 m

• Detector settings: Niko detector tool app and 2-way Bluetooth® communication

• Protection degree: IP20

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-750321

**Specification text:**

Presence detector, 360°, DALI standard, 28 m, master, for flush-mounting box. IP20

• Daylight control in 1-3 daylight zones

• Easy mounting in a standard flush-mounting box (60 or 79 mm diagonal screw distance)

• Quick cabling using screwless and easily accessible plug-in terminals

• User-friendly app for commissioning (iOS/Android)

• 2-way Bluetooth communication ensures quick commissioning and live

feedback in the app

• Supports DALI broadcast (default) and DALI addressable

• Supports one zone auto assignment in DALI addressable mode

• Fitted with three PIR sensors, each covering 120°

• Pre-configured functions: auto configuration when replacing one DALI ballast/DALI device, orientation light, adjustable power-on level when daylight control is disabled, adjustable PIR sensitivity (4 levels) , tunable white third-party integration, event log keeps track of recent changes

• DALI lighting control can be overridden with a 230 V push button

• Suitable for controlling up to 64 DALI devices

• Settings and configuration can be locked with a PIN code

• Cloud solution for backing up and exchanging configuration files

• Suitable for BMS integration

• DALI-2 compliant

Technical data

• Detector technology: PIR

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Maximum power consumption: 0,4 W

• Maximum voltage on the DALI bus: 13,5 V

• Maximum current on the DALI bus: 100 mA

• Maximum number of slaves on the DALI bus: 10 Pieces

• Number of dimmable zones: 3 pieces

• Light intensity range: 20 lux – 2000 lux, ∞

• Switch-off delay: pulse, 15 s – 2 h, ∞

• Detection angle: 360 °

• Detection range (PIR): up to 28 m in diameter from a height of 3 m

• Ambient temperature: -25 – 50 °C

• Mounting method: flush-mounting box

• Mounting height: 2 – 3,5 m

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Colour: white (RAL 9010)

• Dimensions (HxWxD): 100 x 100 x 77,2 mm

• Maximum range Bluetooth®: 25 m

• Maximum radio frequency power: -5 dBm

• Minimum distance between Bluetooth® devices: 1,2 m

• Detector settings: Niko detector tool app and 2-way Bluetooth® communication

• Protection degree: IP20

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-750921

**Specification text:**

Presence detector, 360°, DALI BMS, 28 m, for flush-mounting box. IP20

• Presence and lux level information is instantly sent to the controller

• Fitted with three PIR sensors, each covering 120°

• Adjustable sensitivity for each sensor to avoid incorrect detection

• One or more PIR sensors can be disabled

• Adjustable hysteresis for lux level and presence changes to minimize bus traffic

• Easy mounting in a standard flush-mounting box (60 or 79 mm diagonal screw distance)

• Quick cabling using screwless and easily accessible plug-in terminals

• Pre-configured functions: adjustable PIR sensitivity (4 levels) in 3 x 120°, one or more PIR sensors can be disabled, event log keeps track of recent changes

• Settings and configuration can be locked with a PIN code

• DALI-2 compliant

Technical data

• Detector technology: PIR

• Input voltage: via DALI bus

• Maximum power consumption: 0,2 W

• Light intensity range: 0 lux – 10360 lux

• Detection angle: 360 °

• Detection range (PIR): up to 28 m in diameter from a height of 3 m

• Ambient temperature: -25 – 50 °C

• Mounting method: flush-mounting box

• Mounting height: 2 – 3,5 m

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Colour: white (RAL 9010)

• Dimensions (HxWxD): 100 x 100 x 77,2 mm

• Maximum range Bluetooth®: 25 m

• Maximum radio frequency power: -5 dBm

• Minimum distance between Bluetooth® devices: 1,2 m

• Detector settings: Niko detector tool app and 2-way Bluetooth® communication

• Protection degree: IP20

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-751021

**Specification text:**

Presence detector, 360°, DALI, 28 m, slave, for flush mounting. IP20

• Easy installation thanks to the direct connection to the DALI bus

• Communication with the master via the DALI bus

• Power supply via the DALI bus

• SnapFit mounting bracket (patent pending) for easy and stable mounting in all types of suspended ceilings with or without removable tiles

• Quick cabling using screwless and easily accessible plug-in terminals

• Screwless strain relief and screwless installation of cable cover

• User-friendly app for settings (iOS/Android)

• 2-way Bluetooth communication ensures quick modification of settings and live feedback in the app

• Fitted with three PIR sensors, each covering 120°

• Pre-configured functions: adjustable PIR sensitivity (4 levels) in 3 x 120°, one or more PIR sensors can be disabled, event log keeps track of recent changes

• Settings and configuration can be locked with a PIN code

• DALI-2 compliant

Technical data

• Detector technology: PIR

• Input voltage: via DALI bus

• Maximum power consumption: 0,2 W

• Detection angle: 360 °

• Detection range (PIR): up to 28 m in diameter from a height of 3 m

• Ambient temperature: -25 – 50 °C

• Mounting method: flush-mounting

• Drill diameter: 76 mm

• Mounting height: 2 – 3,5 m

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Colour: white (RAL 9010)

• Dimensions (HxWxD): 120 x 120 x 99,1 mm

• Maximum range Bluetooth®: 25 m

• Maximum radio frequency power: -5 dBm

• Minimum distance between Bluetooth® devices: 1,2 m

• Detector settings: Niko detector tool app and 2-way Bluetooth® communication

• Protection degree: IP20

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-751321

**Specification text:**

Presence detector, 360°, DALI standard, 28 m, master, for flush mounting. IP20

• Daylight control in 1-3 daylight zones

• SnapFit mounting bracket (patent pending) for easy and stable mounting in all types of suspended ceilings with or without removable tiles

• Quick cabling using screwless and easily accessible plug-in terminals

• Screwless strain relief and screwless installation of cable cover

• User-friendly app for commissioning (iOS/Android)

• 2-way Bluetooth communication ensures quick commissioning and live

feedback in the app

• Supports DALI broadcast (default) and DALI addressable

• Supports one zone auto assignment in DALI addressable mode

• Fitted with three PIR sensors, each covering 120°

• Pre-configured functions: auto configuration when replacing one DALI ballast/DALI device, orientation light, adjustable power-on level when daylight control is disabled, one or more PIR sensors can be disabled, adjustable PIR sensitivity (4 levels) in 3 x 120°, tunable white third-party integration, event log keeps track of recent changes

• DALI lighting control can be overridden with a 230 V push button

• Suitable for controlling up to 64 DALI devices

• Settings and configuration can be locked with a PIN code

• Cloud solution for backing up and exchanging configuration files

• Suitable for BMS integration

• DALI-2 compliant

Technical data

• Detector technology: PIR

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Maximum power consumption: 0,4 W

• Maximum voltage on the DALI bus: 13,5 V

• Maximum current on the DALI bus: 100 mA

• Maximum number of slaves on the DALI bus: 10 Pieces

• Maximum number of control gear on the DALI bus: 64 pieces

• Number of dimmable zones: 3 pieces

• Light intensity range: 20 lux – 2000 lux, ∞

• Switch-off delay: pulse, 15 s – 2 h, ∞

• Detection angle: 360 °

• Detection range (PIR): up to 28 m in diameter from a height of 3 m

• Ambient temperature: -25 – 50 °C

• Mounting method: flush-mounting

• Drill diameter: 76 mm

• Mounting height: 2 – 3,5 m

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Colour: white (RAL 9010)

• Dimensions (HxWxD): 120 x 120 x 99,1 mm

• Maximum range Bluetooth®: 25 m

• Maximum radio frequency power: -5 dBm

• Minimum distance between Bluetooth® devices: 1,2 m

• Detector settings: Niko detector tool app and 2-way Bluetooth® communication

• Protection degree: IP20

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-751421

**Specification text:**

Presence detector, 360°, DALI comfort, 28 m, master, for flush mounting.

• Lighting control in up to 4 zones (daylight/secondary)

• SnapFit mounting bracket for easy and stable mounting

• Quick cabling using screwless and easily accessible plug-in terminals

• Commissioning using app (iOS/Android) and 2-way Bluetooth® communication

• Supports DALI broadcast (default) and DALI addressable (up to 64 devices)

• Pre-configured functions: Auto configuration / orientation light / 2 level control, Light scenarios – define and control up to 16 light scenarios, Wireless communication master-to-master enabling: folding door, lighting control in adjacent areas, unlimited number of DALI devices ( > 64 DALI devices), Multi zone for (smart) board lighting, Tunable white using integrated presets or third-party integration , Output relay - control HVAC / standby minimization / light, External relay for HVAC / standby minimization, Adjustable turn-on level when daylight control is disabled, Adjustable PIR sensitivity (5 levels incl. disable) in 3 x 120°, Event log keeps track of recent changes

• DALI lighting control can be overridden with a 230 V push button

• External input devices via DALI bus - up to 64 devices (DALI-2 compliant)

• External trigger can be connected e.g. security alarm

• Cloud solution for backing up and exchanging configuration files

• Settings and configuration can be locked with a PIN code

• Suitable for BMS integration

Technical data

• Detector technology: PIR

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Maximum power consumption: 0,5 W

• Maximum power consumption wireless link active: 0,6 W

• Maximum voltage on the DALI bus: 13,5 V

• Maximum current on the DALI bus: 200 mA

• Maximum number of slaves on the DALI bus: 10 Pieces

• Maximum number of control gear on the DALI bus: 64 pieces

• Number of dimmable zones: 4 pieces

• Number of channels: 1 channel

• Light intensity range: 20 lux – 2000 lux, ∞

• Switch-off delay: pulse, 15 s – 2 h, ∞

• Detection angle: 360 °

• Detection range (PIR): up to 28 m in diameter from a height of 3 m

• Ambient temperature: -25 – 50 °C

• Mounting method: flush-mounting

• Drill diameter: 76 mm

• Mounting height: 2 – 3,5 m

• Relay contact 1: NO (max. µ10 A), potential-free

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Maximum load incandescent and halogen lamps (cosφ=1): 2300 W

• Maximum load fluorescent lamps (cosφ ≥ 0,5): 1200 VA

• Maximum load fluorescent lamps (cosφ ≥ 0,9): 1200 VA

• Maximum load low voltage halogen lamps: 500 W

• Maximum load economy lamps (CFLi): 350 W

• Maximum load LED lamps 230 V: 350 W

• Maximum load LED driver: 500 VA

• Maximum load electronic transformer: 500 VA

• Maximum capacitive load: 140 µF

• Maximum switching current: 165 A/20 ms – 800 A/200 µs

• Dimensions (HxWxD): 120 x 120 x 142,2 mm

• Maximum range Bluetooth®: 25 m

• Maximum radio frequency power: -5 dBm

• Minimum distance between Bluetooth® devices: 1,2 m

• Detector settings: Niko detector tool app and 2-way Bluetooth® communication

• Protection degree: IP20

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-751921

**Specification text:**

Presence detector, 360°, DALI BMS, 28 m, for flush mounting. IP20

• Presence and lux level information is instantly sent to the controller

• Fitted with three PIR sensors, each covering 120°

• Adjustable sensitivity for each sensor to avoid incorrect detection

• One or more PIR sensors can be disabled

• Adjustable hysteresis for lux level and presence changes to minimize

bus traffic

• SnapFit mounting bracket (patent pending) for easy and stable mounting in all types of suspended ceilings with or without removable tiles

• Quick cabling using screwless and easily accessible plug-in terminals

• Screwless strain relief and screwless installation of cable cover

• Pre-configured functions: adjustable PIR sensitivity (4 levels) in 3 x 120°, one or more PIR sensors can be disabled, event log keeps track of recent changes

• Settings and configuration can be locked with a PIN code

• DALI-2 compliant

Technical data

• Detector technology: PIR

• Input voltage: via DALI bus

• Maximum power consumption: 0,2 W

• Light intensity range: 0 lux – 10360 lux

• Detection angle: 360 °

• Detection range (PIR): up to 28 m in diameter from a height of 3 m

• Ambient temperature: -25 – 50 °C

• Mounting method: flush-mounting

• Drill diameter: 76 mm

• Mounting height: 2 – 3,5 m

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Colour: white (RAL 9010)

• Dimensions (HxWxD): 120 x 120 x 99,1 mm

• Maximum range Bluetooth®: 25 m

• Maximum radio frequency power: -5 dBm

• Minimum distance between Bluetooth® devices: 1,2 m

• Detector settings: Niko detector tool app and 2-way Bluetooth® communication

• Protection degree: IP20

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-752021

**Specification text:**

Presence detector, 360°, DALI, 28 m, slave, for surface mounting.

• Surface mounting

• Easy installation thanks to the direct connection to the DALI bus

• Communication with the master via the DALI bus

• Power supply via the DALI bus

• Quick cabling using screwless and easily accessible plug-in terminals

• Screwless strain relief and screwless installation of cable cover

• User-friendly app for settings (iOS/Android)

• 2-way Bluetooth communication ensures quick modification of settings and live feedback in the app

• Fitted with three PIR sensors, each covering 120°

• Pre-configured functions: adjustable PIR sensitivity (4 levels) in 3 x 120°, one or more PIR sensors can be disabled, event log keeps track of recent changes

• Settings and configuration can be locked with a PIN code

• IP54 protection degree

• DALI-2 compliant

Technical data

• Detector technology: PIR

• Input voltage: via DALI bus

• Maximum power consumption: 0,2 W

• Detection angle: 360 °

• Detection range (PIR): up to 28 m in diameter from a height of 3 m

• Ambient temperature: -25 – 50 °C

• Mounting method: surface mounting

• Mounting height: 2 – 3.5 m

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Colour: white (RAL 9010)

• Dimensions (HxWxD): 100 x 100 x 70.7 mm

• Maximum range Bluetooth®: 25 m

• Maximum radio frequency power: -5 dBm

• Minimum distance between Bluetooth® devices: 1,2 m

• Detector settings: Niko detector tool app and 2-way Bluetooth® communication

• Protection degree: IP54

• Protection class: Class II device

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-752321

**Specification text:**

Presence detector, 360°, DALI standard, 28 m, master, for surface mounting.

Surface mounting

• Daylight control in 1-3 daylight zones

• Quick cabling using screwless and easily accessible plug-in terminals

• User-friendly app for commissioning (iOS/Android)

• 2-way Bluetooth® communication ensures quick commissioning and live feedback in the app

• Supports DALI broadcast (default) and DALI addressable

• Supports one zone auto assignment in DALI addressable mode

• Fitted with three PIR sensors, each covering 120°

• Pre-configured functions:

- Auto configuration when replacing one DALI ballast/DALI device

- Orientation light

- Adjustable power-on level when daylight control is disabled

- Adjustable PIR sensitivity (4 levels) in 3 x 120°

- One or more PIR sensors can be disabled

- Tunable white third-party integration

- Event log keeps track of recent changes

• DALI lighting control can be overridden with a 230 V push button

• Suitable for controlling up to 64 DALI devices

• Cloud solution for backing up and exchanging configuration files

• Settings and configuration can be locked with a PIN code

• IP54 protection degree

• Suitable for BMS integration

• DALI-2 compliant

Technical data

• Detector technology: PIR

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Maximum power consumption: 0,4 W

• Maximum voltage on the DALI bus: 13,5 V

• Maximum current on the DALI bus: 100 mA

• Maximum number of slaves on the DALI bus: 10 Pieces

• Maximum number of control gear on the DALI bus: 64 pieces

• Number of dimmable zones: 3 pieces

• Light intensity range: 20 lux – 2000 lux, ∞

• Switch-off delay: pulse, 15 s – 2 h, ∞

• Detection angle: 360 °

• Detection range (PIR): up to 28 m in diameter from a height of 3 m

• Ambient temperature: -25 – 50 °C

• Mounting method: surface mounting

• Mounting height: 2 – 3,5 m

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Colour: white (RAL 9010)

• Dimensions (HxWxD): 100 x 100 x 70,7 mm

• Maximum range Bluetooth®: 25 m

• Maximum radio frequency power: -5 dBm

• Minimum distance between Bluetooth® devices: 1,2 m

• Detector settings: Niko detector tool app and 2-way Bluetooth® communication

• Protection degree: IP54

• Protection class: Class II device

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-752421

**Specification text:**

Presence detector, 360°, DALI comfort, 28 m, master, for surface mounting.

• Surface mounting

• Lighting control in up to 4 zones (daylight/secondary)

• Quick cabling using screwless and easily accessible plug-in terminals

• Commissioning using app (iOS/Android) and 2-way Bluetooth® communication

• Supports DALI broadcast (default) and DALI addressable (up to 64 devices)

• Pre-configured functions: Auto configuration / orientation light / 2 level control, Light scenarios – define and control up to 16 light scenarios, Wireless communication master-to-master enabling: folding door, lighting control in adjacent areas, unlimited number of DALI devices ( > 64 DALI devices), Multi zone for board lighting and smart board lighting, Tunable white using integrated presets or third-party integration , Output relay - control HVAC / standby minimization / light, External relay for HVAC / standby minimization, Adjustable turn-on level when daylight control is disabled, Adjustable PIR sensitivity (5 levels incl. disable) in 3 x 120°, Event log keeps track of recent changes

• DALI lighting control can be overridden with a 230 V push button

• External input devices via DALI bus - up to 64 devices (DALI-2 compliant)

• External trigger can be connected e.g. security alarm

• Cloud solution for backing up and exchanging configuration files

• Settings and configuration can be locked with a PIN code

• IP54 protection degree

• Suitable for BMS integration

Technical data

• Detector technology: PIR

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Maximum power consumption: 0,5 W

• Maximum power consumption wireless link active: 0,6 W

• Maximum voltage on the DALI bus: 13,5 V

• Maximum current on the DALI bus: 200 mA

• Maximum number of slaves on the DALI bus: 10 Pieces

• Maximum number of control gear on the DALI bus: 64 pieces

• Number of dimmable zones: 4 pieces

• Number of channels: 1 channel

• Light intensity range: 20 lux – 2000 lux, ∞

• Switch-off delay: pulse, 15 s – 2 h, ∞

• Detection angle: 360 °

• Detection range (PIR): up to 28 m in diameter from a height of 3 m

• Ambient temperature: -25 – 50 °C

• Mounting method: surface mounting

• Mounting height: 2 – 3.5 m

• Relay contact 1: NO (max. µ10 A), potential-free

• Potential-free contact: NO, 230 V, µ10 A

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Maximum load incandescent and halogen lamps (cosφ=1): 2300 W

• Maximum load fluorescent lamps (cosφ ≥ 0,5): 1200 VA

• Maximum load fluorescent lamps (cosφ ≥ 0,9): 1200 VA

• Maximum load low voltage halogen lamps: 300 W

• Maximum load economy lamps (CFLi): 350 W

• Maximum load LED lamps 230 V: 350 W

• Maximum load LED driver: 500 VA

• Maximum load electronic transformer: 500 VA

• Maximum switching current: 165 A/20 ms – 800 A/200 µs

• Colour: white (RAL 9010)

• Dimensions (HxWxD): 100 x 100 x 70.7 mm

• Maximum range Bluetooth®: 25 m

• Maximum radio frequency power: -5 dBm

• Minimum distance between Bluetooth® devices: 1,2 m

• Detector settings: Niko detector tool app and 2-way Bluetooth® communication

• Protection degree: IP54

• Protection class: Class II device

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-752921

**Specification text:**

Presence detector, 360°, DALI BMS, 28 m, for surface mounting.

• Surface mounting

• Presence and lux level information is instantly sent to the controller

• Fitted with three PIR sensors, each covering 120°

• Adjustable sensitivity for each sensor to avoid false triggers

• One or more PIR sensors can be disabled

• Adjustable hysteresis for lux level and presence changes to minimize bus traffic

• Quick cabling using screwless and easily accessible plug-in terminals

• Pre-configured functions: adjustable PIR sensitivity (4 levels) in 3 x 120°, one or more PIR sensors can be disabled, event log keeps track of recent changes

• IP54 protection degree

• DALI-2 compliant

Technical data

• Detector technology: PIR

• Input voltage: via DALI bus

• Maximum power consumption: 0,2 W

• Detection angle: 360 °

• Detection range (PIR): up to 28 m in diameter from a height of 3 m

• Ambient temperature: -25 – 50 °C

• Mounting method: surface mounting

• Mounting height: 2 – 3.5 m

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Colour: white (RAL 9010)

• Dimensions (HxWxD): 100 x 100 x 70.7 mm

• Maximum range Bluetooth®: 25 m

• Maximum radio frequency power: -5 dBm

• Minimum distance between Bluetooth® devices: 1,2 m

• Detector settings: Niko detector tool app and 2-way Bluetooth® communication

• Protection degree: IP54

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-761421

**Specification text:**

Presence detector, 360°, DALI comfort, wireless, 28 m, master, for flush mounting.

• Lighting control in up to 4 zones (daylight/secondary)

• Lighting zones can be controlled wirelessly by push buttons

• SnapFit mounting bracket for easy and stable mounting

• Quick cabling using screwless and easily accessible plug-in terminals

• Commissioning using app (iOS/Android) and 2-way Bluetooth® communication

• Supports DALI broadcast (default) and DALI addressable (up to 64 devices)

• Pre-configured functions:

- Auto configuration / orientation light / 2 level control

- Light scenarios – define and control up to 16 light scenarios

- Wireless communication master-to-master enabling: folding door, lighting control in adjacent areas, unlimited DALI devices ( > 64 DALI devices)

- Multi zone for board lighting and smart board lighting

- Tunable white using integrated presets or third-party integration

- Output relay - control HVAC / standby minimization / light

- External relay for HVAC / standby minimization

- Adjustable turn-on level when daylight control is disabled

- Adjustable PIR sensitivity (5 levels incl. disable) in 3 x 120°

- Event log keeps track of recent changes

• DALI lighting control can be overridden with a 230 V push button

• External input devices via DALI bus - up to 64 devices (DALI-2 compliant)

• External trigger can be connected e.g. security alarm

• Cloud solution for backing up and exchanging configuration files

• Settings and configuration can be locked with a PIN code

• Suitable for BMS integration

Technical data

• Detector technology: PIR

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Maximum power consumption: 0,5 W

• Maximum power consumption wireless link active: 0,6 W

• Maximum voltage on the DALI bus: 13,5 V

• Maximum current on the DALI bus: 200 mA

• Maximum number of slaves on the DALI bus: 10 Pieces

• Maximum number of control gear on the DALI bus: 64 pieces

• Number of dimmable zones: 4 pieces

• Number of channels: 1 channel

• Light intensity range: 20 lux – 2000 lux, ∞

• Switch-off delay: pulse, 15 s – 2 h, ∞

• Detection angle: 360 °

• Detection range (PIR): up to 28 m in diameter from a height of 3 m

• Ambient temperature: -25 – 50 °C

• Mounting method: flush-mounting

• Drill diameter: 76 mm

• Mounting height: 2 – 3,5 m

• Relay contact 1: NO (max. µ10 A), potential-free

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Maximum load incandescent and halogen lamps (cosφ=1): 2300 W

• Maximum load fluorescent lamps (cosφ ≥ 0,5): 1200 VA

• Maximum load low voltage halogen lamps: 500 W

• Maximum load economy lamps (CFLi): 350 W

• Maximum load LED lamps 230 V: 350 W

• Maximum load LED driver: 500 VA

• Maximum load electronic transformer: 500 VA

• Maximum capacitive load: 140 µF

• Maximum switching current: 165 A/20 ms – 800 A/200 µs

• Colour: white (RAL 9010)

• Dimensions (HxWxD): 120 x 120 x 142,2 mm

• Maximum range Bluetooth®: 25 m

• Maximum radio frequency power: -5 dBm

• Minimum distance between Bluetooth® devices: 1,2 m

• Detector settings: Niko detector tool app and 2-way Bluetooth® communication

• Protection degree: IP20

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-762421

**Specification text:**

Presence detector, 360°, DALI comfort, wireless, 28 m, master, for surface mounting.

• Lighting control in up to 4 zones (daylight/secondary)

• Lighting zones can be controlled wirelessly by push buttons

• SnapFit mounting bracket for easy and stable mounting

• Quick cabling using screwless and easily accessible plug-in terminals

• Commissioning using app (iOS/Android) and 2-way Bluetooth® communication

• Supports DALI broadcast (default) and DALI addressable (up to 64 devices)

• Pre-configured functions: Auto configuration / orientation light / 2 level control, Light scenarios – define and control up to 16 light scenarios, Wireless communication master-to-master enabling: folding door, lighting control in adjacent areas, unlimited DALI devices ( > 64 DALI devices), Multi zone for board lighting and smart board lighting, Tunable white using integrated presets or third-party integration , Output relay - control HVAC / standby minimization / light, External relay for HVAC / standby minimization, Adjustable turn-on level when daylight control is disabled, Adjustable PIR sensitivity (5 levels incl. disable) in 3 x 120°, Event log keeps track of recent changes

• DALI lighting control can be overridden with a 230 V push button

• External input devices via DALI bus - up to 64 devices (DALI-2 compliant)

• External trigger can be connected e.g. security alarm

• Cloud solution for backing up and exchanging configuration files

• Settings and configuration can be locked with a PIN code

• Suitable for BMS integration

Technical data

• Detector technology: PIR

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Maximum power consumption: 0,5 W

• Maximum power consumption wireless link active: 0,6 W

• Maximum voltage on the DALI bus: 13,5 V

• Maximum current on the DALI bus: 200 mA

• Maximum number of slaves on the DALI bus: 10 Pieces

• Maximum number of control gear on the DALI bus: 64 pieces

• Number of dimmable zones: 4 pieces

• Number of channels: 1 channel

• Light intensity range: 20 lux – 2000 lux, ∞

• Switch-off delay: pulse, 15 s – 2 h, ∞

• Detection angle: 360 °

• Detection range (PIR): up to 28 m in diameter from a height of 3 m

• Ambient temperature: -25 – 50 °C

• Mounting method: surface mounting

• Mounting height: 2 – 3.5 m

• Relay contact 1: NO (max. µ10 A), potential-free

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Maximum load incandescent and halogen lamps (cosφ=1): 2300 W

• Maximum load fluorescent lamps (cosφ ≥ 0,5): 1200 VA

• Maximum load fluorescent lamps (cosφ ≥ 0,9): 1200 VA

• Maximum load low voltage halogen lamps: 300 W

• Maximum load economy lamps (CFLi): 350 W

• Maximum load LED lamps 230 V: 350 W

• Maximum load LED driver: 500 VA

• Maximum load electronic transformer: 500 VA

• Maximum switching current: 165 A/20 ms – 800 A/200 µs

• Colour: white (RAL 9010)

• Dimensions (HxWxD): 100 x 100 x 70.7 mm

• Maximum range Bluetooth®: 25 m

• Maximum radio frequency power: -5 dBm

• Minimum distance between Bluetooth® devices: 1,2 m

• Detector settings: Niko detector tool app and 2-way Bluetooth® communication

• Protection degree: IP54

• Protection class: Class II device

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-802011

**Specification text:**

High ceiling detector, 360°, 230 V, 40 m, slave, for surface mounting.

• High ceiling detector for surface mounting

• Quick cabling using screwless and easily accessible plug-in terminals

• User-friendly app for commissioning (iOS/Android)

• 2-way Bluetooth® communication ensures quick modification of settings and live feedback in the app

• Fitted with three PIR sensors, each covering 120°

• Pre-configured functions: adjustable PIR sensitivity (4 levels) in 3 x 120°, one or more PIR sensors can be disabled, event log keeps track of recent changes

• Wireless communication between master and slave detectors

• Settings and configuration can be locked with a PIN code

• IP54 protection degree

Technical data

• Detector technology: PIR

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Maximum power consumption: 0,3 W

• Detection angle: 360 °

• Detection range (PIR): up to 40 m in diameter from a height of 12 m

• Ambient temperature: -25 – 50 °C

• Mounting method: surface mounting

• Mounting height: 4 – 12 m

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Colour: white (RAL 9010)

• Dimensions (HxWxD): 100 x 100 x 70,7 mm

• Maximum range Bluetooth®: 25 m

• Maximum radio frequency power: -5 dBm

• Minimum distance between Bluetooth® devices: 1,2 m

• Detector settings: Niko detector tool app and 2-way Bluetooth® communication

• Protection degree: IP54

• Protection class: Class II device

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-802111

**Specification text:**

High ceiling detector, 360°, 230 V, 40 m, master, for surface mounting. IP20

• High ceiling detector for surface mounting

• Quick cabling using screwless and easily accessible plug-in terminals

• User-friendly app for commissioning (iOS/Android)

• 2-way Bluetooth® communication ensures quick modification of settings and live feedback in the app

• Fitted with three PIR sensors, each covering 120°

• Pre-configured functions: adjustable PIR sensitivity (4 levels) in 3 x 120°, one or more PIR sensors can be disabled, event log keeps track of recent changes

• Detection range can be increased using up to 10 slave detectors

• Wireless communication between master and slave detectors

• Robust potential-free relay

• Automatic lighting control can be overridden with a 230 V push button - different options available

• Settings and configuration can be locked with a PIN code

• Cloud solution for backing up and exchanging configuration files

• IP54 protection degree

Technical data

• Detector technology: PIR

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Maximum power consumption: 0,3 W

• Number of channels: 1 channel

• Light intensity range: 20 lux – 2000 lux, ∞

• Switch-off delay: pulse, 15 s – 2 h, ∞

• Detection angle: 360 °

• Detection range (PIR): up to 40 m in diameter from a height of 12 m

• Ambient temperature: -25 – 50 °C

• Mounting method: surface mounting

• Mounting height: 4 – 12 m

• Relay contact 1: NO (max. µ10 A), potential-free

• Potential-free contact: NO, 230 V, µ10 A

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Maximum load incandescent and halogen lamps (cosφ=1): 2300 W

• Maximum load fluorescent lamps (cosφ ≥ 0,5): 1200 VA

• Maximum load fluorescent lamps (cosφ ≥ 0,9): 1200 VA

• Maximum load low voltage halogen lamps: 300 W

• Maximum load economy lamps (CFLi): 350 W

• Maximum load LED lamps 230 V: 350 W

• Maximum load LED driver: 500 VA

• Maximum load electronic transformer: 500 VA

• Maximum switching current: 165 A/20 ms – 800 A/200 µs

• Colour: white (RAL 9010)

• Dimensions (HxWxD): 100 x 100 x 70,7 mm

• Maximum range Bluetooth®: 25 m

• Maximum radio frequency power: -5 dBm

• Minimum distance between Bluetooth® devices: 1,2 m

• Detector settings: Niko detector tool app and 2-way Bluetooth® communication

• Protection degree: IP54

• Protection class: Class II device

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-852011

**Specification text:**

High ceiling detector, 360°, DALI, 40 m, slave, for surface mounting.

• High ceiling detector for surface mounting

• Easy installation thanks to the direct connection to the DALI bus

• Communication with the master via the DALI bus

• Power supply via the DALI bus

• Quick cabling using screwless and easily accessible plug-in terminals

• Screwless strain relief and screwless installation of cable cover

• User-friendly app for settings (iOS/Android)

• 2-way Bluetooth® communication ensures quick modification of settings and live feedback in the app

• Fitted with three PIR sensors, each covering 120°

• Pre-configured functions: adjustable PIR sensitivity (4 levels) in 3 x 120°, one or more PIR sensors can be disabled, event log keeps track of recent changes

• Settings and configuration can be locked with a PIN code

• IP54 protection degree

• DALI-2 compliant

Technical data

• Detector technology: PIR

• Input voltage: via DALI bus

• Maximum power consumption: 0,2 W

• Detection angle: 360 °

• Detection range (PIR): up to 40 m in diameter from a height of 12 m

• Ambient temperature: -25 – 50 °C

• Mounting method: surface mounting

• Mounting height: 4 – 12 m

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Colour: white (RAL 9010)

• Dimensions (HxWxD): 100 x 100 x 70,7 mm

• Maximum range Bluetooth®: 25 m

• Maximum radio frequency power: -5 dBm

• Minimum distance between Bluetooth® devices: 1,2 m

• Detector settings: Niko detector tool app and 2-way Bluetooth® communication

• Protection degree: IP54

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-852411

**Specification text:**

High ceiling detector, 360°, DALI comfort, 40 m, master, for surface mounting.

• High ceiling detector for surface mounting

• Lighting control in up to 4 zones (daylight/secondary)

• Quick cabling using screwless and easily accessible plug-in terminals

• Commissioning using app (iOS/Android) and 2-way Bluetooth® communication

• Supports DALI broadcast (default) and DALI addressable (up to 64 devices)

• Pre-configured functions: auto configuration / orientation light / 2 level control, light scenarios – define and control up to 16 light scenarios, wireless communication master-to-master enabling: folding door, lighting control in adjacent areas, unlimited number of DALI devices ( > 64 DALI devices), multi zone for board lighting and smart board lighting, tunable white using integrated presets or third-party integration, output relay - control HVAC / standby minimization / light, external relay for HVAC / standby minimization, adjustable turn-on level when daylight control is disabled, adjustable PIR sensitivity (5 levels incl. disable) in 3 x 120°, event log keeps track of recent changes

• DALI lighting control can be overridden with a 230 V push button

• External input devices via DALI bus - up to 64 devices (DALI-2 compliant)

• External trigger can be connected e.g. security alarm

• Cloud solution for backing up and exchanging configuration files

• Settings and configuration can be locked with a PIN code

• IP54 protection degree

• Suitable for BMS integration

Technical data

• Detector technology: PIR

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Maximum power consumption: 0,5 W

• Maximum power consumption wireless link active: 0,6 W

• Maximum voltage on the DALI bus: 13,5 V

• Maximum current on the DALI bus: 200 mA

• Maximum number of slaves on the DALI bus: 10 Pieces

• Maximum number of control gear on the DALI bus: 64 pieces

• Number of dimmable zones: 4 pieces

• Number of channels: 1 channel

• Light intensity range: 20 lux – 2000 lux, ∞

• Switch-off delay: pulse, 15 s – 2 h, ∞

• Detection angle: 360 °

• Detection range (PIR): up to 40 m in diameter from a height of 12 m

• Ambient temperature: -25 – 50 °C

• Mounting method: surface mounting

• Mounting height: 4 – 12 m

• Relay contact 1: NO (max. µ10 A), potential-free

• Potential-free contact: NO, 230 V, µ10 A

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Maximum load incandescent and halogen lamps (cosφ=1): 2300 W

• Maximum load fluorescent lamps (cosφ ≥ 0,5): 1200 VA

• Maximum load fluorescent lamps (cosφ ≥ 0,9): 1200 VA

• Maximum load low voltage halogen lamps: 300 W

• Maximum load economy lamps (CFLi): 350 W

• Maximum load LED lamps 230 V: 350 W

• Maximum load LED driver: 500 VA

• Maximum load electronic transformer: 500 VA

• Maximum switching current: 165 A/20 ms – 800 A/200 µs

• Colour: white (RAL 9010)

• Dimensions (HxWxD): 100 x 100 x 70,7 mm

• Maximum range Bluetooth®: 25 m

• Maximum radio frequency power: -5 dBm

• Minimum distance between Bluetooth® devices: 1,2 m

• Detector settings: Niko detector tool app and 2-way Bluetooth® communication

• Protection degree: IP54

• Protection class: Class II device

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

350-852911

**Specification text:**

High ceiling detector, 360°, DALI BMS, 40 m, for surface mounting.

• High ceiling detector for surface mounting

• Presence and lux level information is instantly sent to the controller

• Fitted with three PIR sensors, each covering 120°

• Adjustable sensitivity for each sensor to avoid false triggers

• One or more PIR sensors can be disabled

• Adjustable hysteresis for lux level and presence changes to minimize bus traffic

• Quick cabling using screwless and easily accessible plug-in terminals

• Pre-configured functions: adjustable PIR sensitivity (4 levels) in 3 x 120°, one or more PIR sensors can be disabled, event log keeps track of recent changes

• IP54 protection degree

• DALI-2 compliant

Technical data

• Detector technology: PIR

• Input voltage: via DALI bus

• Maximum power consumption: 0,2 W

• Detection angle: 360 °

• Detection range (PIR): up to 40 m in diameter from a height of 12 m

• Ambient temperature: -25 – 50 °C

• Mounting method: surface mounting

• Mounting height: 4 – 12 m

• Wire capacity: All connection terminals can contain up to 2.5 mm² of wire.

• Colour: white (RAL 9010)

• Dimensions (HxWxD): 100 x 100 x 70,7 mm

• Maximum range Bluetooth®: 25 m

• Maximum radio frequency power: -5 dBm

• Minimum distance between Bluetooth® devices: 1,2 m

• Detector settings: Niko detector tool app and 2-way Bluetooth® communication

• Protection degree: IP54

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

360-35010

**Specification text:**

Niko modular lighting control to be used in combination with a Niko photo cell and Niko motion detector(s). Automatic activation dependent on the level of daylight measured and the motion detected. Automatic OFF in sufficient daylight or after switch-off delay. Optional control via N.O. push button. Suitable for indoor and outdoor applications.

Power supply voltage: 230 Vac ±10 %.

Secondary voltage: 24 Vdc ±10 %.

Relay contact: N.O. max 10 A.

Load: incandescent lamps: 2300 W, 230 V halogen: 500 W, all low-voltage halogen lamps: 500 VA, fluorescent lamps (non-compensated): 1200 VA

Maximum switching capacity: 140 µF.

Light range: 3…300 lux, 30 lux…3 Klux, 300 lux…30 Klux.

Hysteresis on light sensitivity: +10 %.

Switch-off delay: 0…60 min.

DIN 2 modules

Dimensions: H90 mm x W35 mm x D55 mm.

Protection degree: IP20.

Operating temperature: 5 °C to 50 °C.

## **Tender Text – Specifications – Detectors**

**Product reference:**

360-36194

**Specification text:**

Daylight control module with twilight switch, 3 - 300 lux. The daylight control module is suitable for car parks, outdoor areas, footpaths… The lighting is switched on automatically once the light level is below the preset level (standard setting: 35 lux). In the morning the lighting switches off automatically once the set lux level is exceeded by 10 %. The lux level is easy to set using the potentiometer on the daylight control module. There is a double cable connecting the daylight control module and the twilight switch.

• Input voltage: 230 Vac ± 10 %, 50 Hz

• Light intensity range: 3 lux – 300 lux

• Ambient temperature: -5 – 50 °C

• Relay contact 1: NO. (max. 16 A)

• Maximum load incandescent and halogen lamps (cosφ=1): 3000 W

• Maximum load economy lamps (CFLi): 1000 W

• Maximum capacitive load: 140 µF

• Maximum switching current: 165 A/20 ms – 800 A/200 µs

• Protection class: Class II device

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

360-45010

**Specification text:**

Niko modular daylight control for zone-based switching of indoor lighting. Use in combination with a Niko photo cell, motion detector(s) and Niko power supply 360-47000 for switching loads. Automatic activation dependent on the level of daylight measured and the motion detected. Automatic OFF in sufficient daylight or after switch-off delay. Optional control using time switch, N.O. push button, 4-fold push button with feedback LEDs. Equipped with four pre-programmed applications.

Power supply voltage: 24 Vdc ±10 %.

Zones: 1, 2 or 3.

Light range: 3…300 lux, 30 lux…3 Klux, 300 lux…30 Klux, 600 lux…60 Klux.

Hysteresis (positive): 10 %..80 %.

Switch-off delay: 0…60 min.

Protection degree: IP20.

DIN 4 module

Dimensions: H90 mm x W70 mm x D55 mm.

Operating temperature: 5 °C to 50 °C.

In compliance with the European directive for EMC and safety EN60669-2-1.

## **Tender Text – Specifications – Detectors**

**Product reference:**

360-45011

**Specification text:**

Niko modular daylight control for zone-based dimming of indoor lighting. Equipped with three 1-10 V outputs for the regulation of dimmable electronic control gear (EVSA) for fluorescent and compact fluorescent lighting. Use in combination with a Niko photo cell, motion detector(s) and Niko power supply 360-47000 for switching loads. Automatic lighting control dependent on the level of daylight measured and the motion detected. Automatic OFF in sufficient daylight or after switch-off delay. Optional control using time switch, N.O. push button, 4-fold push button with feedback LEDs. Equipped with five pre-programmed applications.

Power supply voltage: 24 Vdc ±10 %.

Outputs 1, 2 and 3: 1-10 V

Max. dimming capacity: 50 mA.

Zones: 1, 2 or 3.

Light range: 3…300 lux, 30 lux…3 Klux, 300 lux…30 Klux, 600 lux…60 Klux.

Switch-off delay: 0…60 min.

Protection degree: IP20.

DIN 4 modules

Dimensions (HxWxD): 90 x 70 x 55 mm.

Operating temperature: 5°C to 50°C.

In compliance with the European directives for EMC and safety EN60669-2-1.

## **Tender Text – Specifications – Detectors**

**Product reference:**

360-45012

**Specification text:**

Niko modular daylight control for zone-based dimming of indoor lighting. Equipped with three DALI outputs. Use in combination with a Niko photo cell, motion detector(s) and Niko power supply 360-47000 for switching loads. Automatic lighting control dependent on the level of daylight measured and the motion detected. Automatic OFF in sufficient daylight or after switch-off delay. Optional control using time switch, N.O. push button, 4-fold push button with feedback LEDs. Equipped with 5 pre-programmed applications.

Power supply voltage: 24 Vdc ± 10 %.

Outputs 1, 2 and 3: DALI

Protection degree: IP20.

DIN 4 modules

Dimensions: H 90 mm x W 70 mm x D 55 mm.

Operating temperature: -5 to 50 °C.

In compliance with the European directives for EMC and safety, EN 60669-2-1.

## **Tender Text – Specifications – Detectors**

**Product reference:**

390-10011

**Specification text:**

NA

## **Tender Text – Specifications – Detectors**

**Product reference:**

390-20000

**Specification text:**

NA

## **Tender Text – Specifications – Detectors**

**Product reference:**

390-20001

**Specification text:**

NA

## **Tender Text – Specifications – Detectors**

**Product reference:**

390-20010

**Specification text:**

NA

## **Tender Text – Specifications – Detectors**

**Product reference:**

390-20050

**Specification text:**

Niko mounting bracket for ceiling mounting of Niko outdoor motion detector 350-200050. Coulour: White.

## **Tender Text – Specifications – Detectors**

**Product reference:**

390-20056

**Specification text:**

Niko mounting box for ceiling mounting of the 360° presence detector with one channel (10A, flush mounting in ceiling) (350-20056). The mounting screws needed to mount the detector to the box are included. The box has a diameter of 89mm and is 42mm high.

## **Tender Text – Specifications – Detectors**

**Product reference:**

390-20057

**Specification text:**

Flush-mounting box for ceiling mounting of detectors. Provided with spring clips for easy mounting in false ceilings.

## **Tender Text – Specifications – Detectors**

**Product reference:**

390-20150

**Specification text:**

Niko mounting bracket for ceiling mounting of Niko outdoor motion detector 350-200050. Coulour: black.

## **Tender Text – Specifications – Detectors**

**Product reference:**

390-40010

**Specification text:**

NA

## **Tender Text – Specifications – Detectors**

**Product reference:**

550-13050

**Specification text:**

Thermostat Niko Home Control. Using the thermostat function, you can select heating or cooling options for several different zones or rooms. The thermostat operates in conjunction with a heating or cooling module. Each thermostat can be programmed independently. There are three weekly programmes to choose from: two for the heating function and one for the cooling function. In addition, there are five fixed temperature settings (DAY, NIGHT, ECO, COOL, and OFF). You can use the pre-programmed settings or enter your personal settings. Using the thermostat function, you can:

• select one of the pre-programmed weekly programmes or temperature settings.

• modify pre-programmed settings.

• modify fixed temperature settings.

• modify weekly programmes.

• set the date and time.

• calibrate the clock thermostat.

A thermostat can be mounted in any room fitted with a floor-heating system, radiator, heating unit or cooling unit. It controls the heating or cooling for the room in which it is mounted. The thermostat only functions properly when the temperature within the room can be measured accurately. Try to eliminate as many factors as you can that may inhibit the thermostat’s ability to accurately control the room temperature.

 DO NOT mount the thermostat:

• in direct sunlight.

• on an exterior wall.

• within the immediate vicinity of a heat generating source (heater, radiator, etc.) or electrical equipment that may radiate heat (TV, computer, etc.).

• behind a curtain.

Do not allow air to circulate behind the thermostat. If needed, fill in any gaps in the flush-mounting box or bus cable duct using PU foam. Push buttons with display are integrated in a bridge. The thermostat conforms to IEC60730-2-9, EN 50491-5-2, EN 50491-2 and EN 50090-2-3 The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed. When mounting in a flush-mounting box with grip surfaces, use claws that can be rotated open using screws with a slotted screwhead (slot 0.8 x 5 mm). The claws, which have a depth of engagement of 31 mm, turn back completely when loosened.

• Flush-mounting depth: 20 mm

• Screen type: lit colour display with the dimensions 45 x 45 x 32 (HxWxD)

• Minimum ambient temperature: +5 °C

• Maximum ambient temperature: +40 °C

• Input voltage: 26 Vdc (SELV, safety extra-low voltage)

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

550-13051

**Specification text:**

Thermostat Niko Home Control. Using the thermostat function, you can select heating or cooling options for several different zones or rooms. The thermostat operates in conjunction with a heating or cooling module. Each thermostat can be programmed independently. There are three weekly programmes to choose from: two for the heating function and one for the cooling function. In addition, there are five fixed temperature settings (DAY, NIGHT, ECO, COOL, and OFF). You can use the pre-programmed settings or enter your personal settings. Using the thermostat function, you can:

• select one of the pre-programmed weekly programmes or temperature settings.

• modify pre-programmed settings.

• modify fixed temperature settings.

• modify weekly programmes.

• set the date and time.

• calibrate the clock thermostat.

A thermostat can be mounted in any room fitted with a floor-heating system, radiator, heating unit or cooling unit. It controls the heating or cooling for the room in which it is mounted. The thermostat only functions properly when the temperature within the room can be measured accurately. Try to eliminate as many factors as you can that may inhibit the thermostat’s ability to accurately control the room temperature.

 DO NOT mount the thermostat:

• in direct sunlight.

• on an exterior wall.

• within the immediate vicinity of a heat generating source (heater, radiator, etc.) or electrical equipment that may radiate heat (TV, computer, etc.).

• behind a curtain.

Do not allow air to circulate behind the thermostat. If needed, fill in any gaps in the flush-mounting box or bus cable duct using PU foam. Push buttons with display are integrated in a bridge. The thermostat conforms to IEC60730-2-9, EN 50491-5-2, EN 50491-2 and EN 50090-2-3 The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate. The base is equipped on all sides with folded-up dovetails, allowing for both vertical and horizontal coupling (centre-to-centre distance of 71 x 71 mm) of several bases to be carried out quickly and perfectly. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. When fixing in a flush-mounting box screws should be used.

Using the thermostat function, you can select heating or cooling options for several different zones or rooms. The thermostat operates in conjunction with a heating or cooling module.

Each thermostat can be programmed independently. There are three weekly programmes to choose from: two for the heating function and one for the cooling function. In addition, there are five fixed temperature settings (DAY, NIGHT, ECO, COOL, and OFF). You can use the pre-programmed settings or enter your personal settings.

Using the thermostat function, you can:

• select one of the pre-programmed weekly programmes or temperature settings.

• modify pre-programmed settings.

• modify fixed temperature settings.

• modify weekly programmes.

• set the date and time.

• calibrate the clock thermostat.

A thermostat can be mounted in any room fitted with a floor-heating system, radiator, heating unit or cooling unit. It controls the heating or cooling for the room in which it is mounted. The thermostat only functions properly when the temperature within the room can be measured accurately. Try to eliminate as many factors as you can that may inhibit the thermostat’s ability to accurately control the room temperature. DO NOT mount the thermostat:

• in direct sunlight.

• on an exterior wall.

• within the immediate vicinity of a heat generating source (heater, radiator, etc.) or electrical equipment that may radiate heat (TV, computer, etc.).

• behind a curtain.

Do not allow air to circulate behind the thermostat. If needed, fill in any gaps in the flush-mounting box or bus cable duct using PU foam.

Push buttons with display are integrated in a bridge. The bridge is mounted onto a standard flush-mounting box using screws.

Technical data:

• back-lit colour display

• resting potential: 26 Vdc (SELV, safety extra-low voltage)

• ambient temperature: 5 - 40°C

• dimensions of the display: 45 x 45 x 32 mm (HxWxD)

• flush-mounting depth: 20 mm

• daily/weekly programmes

• 5 temperature settings: day, night, eco, off (frost-free) and cool

• temperature accuracy: 0.5°C

• in conformity with IEC60730-2-9, EN 50491-5-2, EN 50491-2 and EN 50090-2-3

• protection rating: IP20

• bridge 71 x 71 mm with screw connection

• Flush-mounting depth: 20 mm

• Screen type: lit colour display with the dimensions 45 x 45 x 32 (HxWxD)

• Minimum ambient temperature: +5 °C

• Maximum ambient temperature: +40 °C

• Input voltage: 26 Vdc (SELV, safety extra-low voltage)

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

550-13052

**Specification text:**

Thermostat Niko Home Control. Using the thermostat function, you can select heating or cooling options for several different zones or rooms. The thermostat operates in conjunction with a heating or cooling module. Each thermostat can be programmed independently. There are three weekly programmes to choose from: two for the heating function and one for the cooling function. In addition, there are five fixed temperature settings (DAY, NIGHT, ECO, COOL, and OFF). You can use the pre-programmed settings or enter your personal settings. Using the thermostat function, you can:

• select one of the pre-programmed weekly programmes or temperature settings.

• modify pre-programmed settings.

• modify fixed temperature settings.

• modify weekly programmes.

• set the date and time.

• calibrate the clock thermostat.

A thermostat can be mounted in any room fitted with a floor-heating system, radiator, heating unit or cooling unit. It controls the heating or cooling for the room in which it is mounted. The thermostat only functions properly when the temperature within the room can be measured accurately. Try to eliminate as many factors as you can that may inhibit the thermostat’s ability to accurately control the room temperature.

 DO NOT mount the thermostat:

• in direct sunlight.

• on an exterior wall.

• within the immediate vicinity of a heat generating source (heater, radiator, etc.) or electrical equipment that may radiate heat (TV, computer, etc.).

• behind a curtain.

Do not allow air to circulate behind the thermostat. If needed, fill in any gaps in the flush-mounting box or bus cable duct using PU foam. Push buttons with display are integrated in a bridge. The thermostat conforms to IEC60730-2-9, EN 50491-5-2, EN 50491-2 and EN 50090-2-3 The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed. When fixing in a flush-mounting box screws should be used.

• Flush-mounting depth: 20 mm

• Screen type: lit colour display with the dimensions 45 x 45 x 32 (HxWxD)

• Minimum ambient temperature: +5 °C

• Maximum ambient temperature: +40 °C

• Input voltage: 26 Vdc (SELV, safety extra-low voltage)

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

550-13060

**Specification text:**

HVAC-thermostat Niko Home Control. The HVAC thermostat allows you to control the air conditioning system (HVAC system) within a zone or room. The HVAC thermostat and the air conditioning system communicate via an HVAC interface (CoolMaster). The HVAC thermostat can be operated locally or remotely via a touchscreen, smartphone or tablet. Each HVAC thermostat can be programmed independently. There are three adjustable temperature settings (DAY, NIGHT and CUSTOM) and two weekly programmes to choose from. You can use the pre-programmed settings or enter your personal settings. Each temperature setting has two values depending on the operating mode that has been activated (COOLING or HEATING). In addition, there are three status options (ECO, PROTECT and ON/OFF) as well as the option to enter the temperature of your choice. Statuses ECO and PROTECT cannot be selected via the HVAC thermostat. Using the HVAC thermostat function, you can:

• select one of the temperature settings or pre-programmed weekly programmes.

• modify temperature settings.

• modify weekly programmes.

• modify the temperature setting for a certain length of time.

• set the date and time.

• change the ventilation speed.

• Change the operating mode (cooling or heating).

• switch off all indoor units within the zone.

An HVAC thermostat can be mounted in any room fitted with indoor units of the HVAC system. It controls the heating or cooling for the room in which it is mounted. The HVAC thermostat only functions properly when the temperature within the room can be measured accurately. Try to eliminate as many factors as you can that may inhibit the thermostat’s ability to accurately control the room temperature.

DO NOT mount the HVAC thermostat:

• in direct sunlight.

• on an exterior wall.

• within the immediate vicinity of a heat generating source (heater, radiator, etc.) or electrical equipment that may radiate heat (TV, computer, etc.).

• behind a curtain.

Do not allow air to circulate behind the HVAC thermostat. If needed, fill in any gaps in the flush-mounting box or bus cable duct using PU foam. Push buttons with display are integrated in a bridge. The thermostat conforms to IEC60730-2-9, EN 50491-5-2, EN 50491-2 and EN 50090-2-3 The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed. When mounting in a flush-mounting box with grip surfaces, use claws that can be rotated open using screws with a slotted screwhead (slot 0.8 x 5 mm). The claws, which have a depth of engagement of 31 mm, turn back completely when loosened.

• Flush-mounting depth: 20 mm

• Screen type: lit colour display with the dimensions 45 x 45 x 32 (HxWxD)

• Minimum ambient temperature: +5 °C

• Maximum ambient temperature: +40 °C

• Input voltage: 26 Vdc (SELV, safety extra-low voltage)

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

550-13061

**Specification text:**

HVAC-thermostat Niko Home Control. The HVAC thermostat allows you to control the air conditioning system (HVAC system) within a zone or room. The HVAC thermostat and the air conditioning system communicate via an HVAC interface (CoolMaster). The HVAC thermostat can be operated locally or remotely via a touchscreen, smartphone or tablet. Each HVAC thermostat can be programmed independently. There are three adjustable temperature settings (DAY, NIGHT and CUSTOM) and two weekly programmes to choose from. You can use the pre-programmed settings or enter your personal settings. Each temperature setting has two values depending on the operating mode that has been activated (COOLING or HEATING). In addition, there are three status options (ECO, PROTECT and ON/OFF) as well as the option to enter the temperature of your choice. Statuses ECO and PROTECT cannot be selected via the HVAC thermostat. Using the HVAC thermostat function, you can:

• select one of the temperature settings or pre-programmed weekly programmes.

• modify temperature settings.

• modify weekly programmes.

• modify the temperature setting for a certain length of time.

• set the date and time.

• change the ventilation speed.

• Change the operating mode (cooling or heating).

• switch off all indoor units within the zone.

An HVAC thermostat can be mounted in any room fitted with indoor units of the HVAC system. It controls the heating or cooling for the room in which it is mounted. The HVAC thermostat only functions properly when the temperature within the room can be measured accurately. Try to eliminate as many factors as you can that may inhibit the thermostat’s ability to accurately control the room temperature.

DO NOT mount the HVAC thermostat:

• in direct sunlight.

• on an exterior wall.

• within the immediate vicinity of a heat generating source (heater, radiator, etc.) or electrical equipment that may radiate heat (TV, computer, etc.).

• behind a curtain.

Do not allow air to circulate behind the HVAC thermostat. If needed, fill in any gaps in the flush-mounting box or bus cable duct using PU foam. Push buttons with display are integrated in a bridge. The thermostat conforms to IEC60730-2-9, EN 50491-5-2, EN 50491-2 and EN 50090-2-3 The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate. The base is equipped on all sides with folded-up dovetails, allowing for both vertical and horizontal coupling (centre-to-centre distance of 71 x 71 mm) of several bases to be carried out quickly and perfectly. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. When fixing in a flush-mounting box screws should be used.

• Flush-mounting depth: 20 mm

• Screen type: lit colour display with the dimensions 45 x 45 x 32 (HxWxD)

• Minimum ambient temperature: +5 °C

• Maximum ambient temperature: +40 °C

• Input voltage: 26 Vdc (SELV, safety extra-low voltage)

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

550-13062

**Specification text:**

HVAC-thermostat Niko Home Control. The HVAC thermostat allows you to control the air conditioning system (HVAC system) within a zone or room. The HVAC thermostat and the air conditioning system communicate via an HVAC interface (CoolMaster). The HVAC thermostat can be operated locally or remotely via a touchscreen, smartphone or tablet. Each HVAC thermostat can be programmed independently. There are three adjustable temperature settings (DAY, NIGHT and CUSTOM) and two weekly programmes to choose from. You can use the pre-programmed settings or enter your personal settings. Each temperature setting has two values depending on the operating mode that has been activated (COOLING or HEATING). In addition, there are three status options (ECO, PROTECT and ON/OFF) as well as the option to enter the temperature of your choice. Statuses ECO and PROTECT cannot be selected via the HVAC thermostat. Using the HVAC thermostat function, you can:

• select one of the temperature settings or pre-programmed weekly programmes.

• modify temperature settings.

• modify weekly programmes.

• modify the temperature setting for a certain length of time.

• set the date and time.

• change the ventilation speed.

• Change the operating mode (cooling or heating).

• switch off all indoor units within the zone.

An HVAC thermostat can be mounted in any room fitted with indoor units of the HVAC system. It controls the heating or cooling for the room in which it is mounted. The HVAC thermostat only functions properly when the temperature within the room can be measured accurately. Try to eliminate as many factors as you can that may inhibit the thermostat’s ability to accurately control the room temperature.

DO NOT mount the HVAC thermostat:

• in direct sunlight.

• on an exterior wall.

• within the immediate vicinity of a heat generating source (heater, radiator, etc.) or electrical equipment that may radiate heat (TV, computer, etc.).

• behind a curtain.

Do not allow air to circulate behind the HVAC thermostat. If needed, fill in any gaps in the flush-mounting box or bus cable duct using PU foam. Push buttons with display are integrated in a bridge. The thermostat conforms to IEC60730-2-9, EN 50491-5-2, EN 50491-2 and EN 50090-2-3 The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed. When fixing in a flush-mounting box screws should be used.

• Flush-mounting depth: 20 mm

• Screen type: lit colour display with the dimensions 45 x 45 x 32 (HxWxD)

• Minimum ambient temperature: +5 °C

• Maximum ambient temperature: +40 °C

• Input voltage: 26 Vdc (SELV, safety extra-low voltage)

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

550-20200

**Specification text:**

Outdoor motion detector, 180°, Niko Home Control, 16 m, with orientable lens, (white). The outdoor motion detector detects moving heat sources and activates or deactivates Niko Home Control functions. Outdoor motion detectors are typically used near driveways, outdoor patios, garden areas and garages. The outdoor motion detector detects motion by using Passive Infrared Technology (PIR). It also includes an integrated light sensor. You can change the settings of the outdoor motion detector via the module itself to activate or deactivate Niko Home Control functions during the day, in the evening or during the night. These functions are assigned while programming the installation by linking functions to the unique address of each outdoor motion detector. To attach the motion detector to a ceiling, a mounting brace is required. This is available separately (390-20050). The potentiometers underneath the cover can be used for changing the light sensitivity, switch-off delay and detection range. To change these settings, simply open the cover and use a screwdriver to turn each potentiometer to the desired setting. The detection area can be divided by means of an adjustable cover mask.

• Input voltage: 26 Vdc (SELV, safety extra-low voltage)

• Light intensity range: 5 lux – , ∞

• Switch-off delay: 8 s – 30 min

• Detection angle: 180 °

• Detection range (PIR): up to 16 m in diameter from a height of 3 m

• Ambient temperature: -20 – 45 °C

• Mounting method: surface mounting

• Mounting height: 2.5 m

• Protection degree: IP54

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

550-20201

**Specification text:**

Outdoor motion detector, 180°, Niko Home Control, 13 m, with orientable lens, (black). The outdoor motion detector detects moving heat sources and activates or deactivates Niko Home Control functions. Outdoor motion detectors are typically used near driveways, outdoor patios, garden areas and garages. The outdoor motion detector detects motion by using Passive Infrared Technology (PIR). It also includes an integrated light sensor. You can change the settings of the outdoor motion detector via the module itself to activate or deactivate Niko Home Control functions during the day, in the evening or during the night. These functions are assigned while programming the installation by linking functions to the unique address of each outdoor motion detector. To attach the motion detector to a ceiling, a mounting brace is required. This is available separately (390-20050). The potentiometers underneath the cover can be used for changing the light sensitivity, switch-off delay and detection range. To change these settings, simply open the cover and use a screwdriver to turn each potentiometer to the desired setting. The detection area can be divided by means of an adjustable cover mask.

• Input voltage: 26 Vdc (SELV, safety extra-low voltage)

• Light intensity range: 5 lux – , ∞

• Switch-off delay: 8 s – 30 min

• Detection angle: 180 °

• Detection range (PIR): up to 13 m in diameter from a height of 3 m

• Ambient temperature: -20 – 45 °C

• Mounting method: surface mounting

• Mounting height: 2.5 m

• Protection degree: IP54

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

550-20210

**Specification text:**

Wall motion detector, 180°, Niko Home Control, 9 m. The indoor motion detector detects moving heat sources and activates or deactivates Niko Home Control functions. The indoor motion detector detects moving heat sources by using Passive Infrared Technology (PIR). When motion is detected, the motion detector activates or deactivates certain Niko Home Control functions. These functions are assigned while programming the installation by linking functions to the unique address of each indoor motion detector. When a person enters the detection area, the motion detector initiates the starting behaviour. When the person has left the detection area or remains motionless within the area (up to 10 s after last detection) the stopping behaviour will be initiated. The indoor motion detector includes a manual mode option. In manual mode, the indoor motion detector will behave as if there were permanent motion. Press the manual mode button to activate or deactivate this mode. If manual mode is not deactivated, the function linked to that motion detector will remain active for 4 hours. The indoor motion detector consists of two parts: the sensor (1XX-55511) and the base (550-20210). The bridge is mounted onto a standard flush-mounting box using screws. The maximum detection range is 8 m. The potentiometer underneath the cover of the sensor can be used for changing the light sensitivity setting. The sockets are equipped with screw terminals for clamping the wires. When mounting in a flush-mounting box with grip surfaces, use claws that can be rotated open using screws with a slotted screwhead (slot 0.8 x 5 mm). The claws, which have a depth of engagement of 31 mm, turn back completely when loosened. 0.5 or 1 mm² per connection terminal The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate.

• Connection terminals: 2 connection terminals

• Flush-mounting height: recommended from 0.9 to 1.1 m

• Detection range (PIR): 8 to 9 m horizontal

• Detection angle horizontal: 180°

• Detection angle vertical: 60°

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Input voltage: 26 Vdc (SELV, safety extra-low voltage)

• You can also turn lighting on and off manually with the push button on the unit. After four hours the light switches off automatically.

• Protection degree: IP20

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

550-20211

**Specification text:**

Wall motion detector, 180°, Niko Home Control, 9 m. The indoor motion detector detects moving heat sources and activates or deactivates Niko Home Control functions. The indoor motion detector detects moving heat sources by using Passive Infrared Technology (PIR). When motion is detected, the motion detector activates or deactivates certain Niko Home Control functions. These functions are assigned while programming the installation by linking functions to the unique address of each indoor motion detector. When a person enters the detection area, the motion detector initiates the starting behaviour. When the person has left the detection area or remains motionless within the area (up to 10 s after last detection) the stopping behaviour will be initiated. The indoor motion detector includes a manual mode option. In manual mode, the indoor motion detector will behave as if there were permanent motion. Press the manual mode button to activate or deactivate this mode. If manual mode is not deactivated, the function linked to that motion detector will remain active for 4 hours. The indoor motion detector consists of two parts: the sensor (1XX-55511) and the base (550-20210). The bridge is mounted onto a standard flush-mounting box using screws. The maximum detection range is 8 m. The potentiometer underneath the cover of the sensor can be used for changing the light sensitivity setting. The sockets are equipped with screw terminals for clamping the wires. When fixing in a flush-mounting box screws should be used. 0.5 or 1 mm² per connection terminal The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. The base is equipped on all sides with folded-up dovetails, allowing for both vertical and horizontal coupling (centre-to-centre distance of 71 x 71 mm) of several bases to be carried out quickly and perfectly. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate.

• Connection terminals: 2 connection terminals

• Flush-mounting height: recommended from 0.9 to 1.1 m

• Detection range (PIR): 8 to 9 m horizontal

• Detection angle horizontal: 180°

• Detection angle vertical: 60°

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Input voltage: 26 Vdc (SELV, safety extra-low voltage)

• You can also turn lighting on and off manually with the push button on the unit. After four hours the light switches off automatically.

• Protection degree: IP20

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

550-20212

**Specification text:**

Wall motion detector, 180°, Niko Home Control, 9 m. The indoor motion detector detects moving heat sources and activates or deactivates Niko Home Control functions. The indoor motion detector detects moving heat sources by using Passive Infrared Technology (PIR). When motion is detected, the motion detector activates or deactivates certain Niko Home Control functions. These functions are assigned while programming the installation by linking functions to the unique address of each indoor motion detector. When a person enters the detection area, the motion detector initiates the starting behaviour. When the person has left the detection area or remains motionless within the area (up to 10 s after last detection) the stopping behaviour will be initiated. The indoor motion detector includes a manual mode option. In manual mode, the indoor motion detector will behave as if there were permanent motion. Press the manual mode button to activate or deactivate this mode. If manual mode is not deactivated, the function linked to that motion detector will remain active for 4 hours. The indoor motion detector consists of two parts: the sensor (1XX-55511) and the base (550-20210). The bridge is mounted onto a standard flush-mounting box using screws. The maximum detection range is 8 m. The potentiometer underneath the cover of the sensor can be used for changing the light sensitivity setting. The sockets are equipped with screw terminals for clamping the wires. When fixing in a flush-mounting box screws should be used. 0.5 or 1 mm² per connection terminal The flush-mounting frame is made from 1 mm-thick metal which is galvanized on all sides after cutting, even on the cut edges. On the horizontal and vertical axes, the flush-mounting frame has 4 grooves for screw mounting in flush-mounting boxes. These grooves have a screw aperture of 7 mm. For mounting on panels, the flush-mounting frame is equipped with 4 screw holes (indicated by a screw symbol) with a diameter of 3 mm. The middle of the flush-mounting frame is indicated (chalk line, laser, ..) in both the horizontal and vertical directions, so that mounting one or more mechanisms can be carried out quickly and easily. At the right and left sides, the flush-mounting frame is equipped with folded-up dovetails, allowing for a quick and perfect horizontal coupling of several switches. The folded-up edges on the outside of the base and their continuation to the inside ensure additional robustness. The bases can be coupled vertically with a centre-to-centre distance of 60 x 71 mm by sliding them into each other. They automatically lock into place. For horizontal coupling of bases with a centre-to-centre distance of 71 mm, the base is equipped with two pre-formed lips at the bottom. By folding these lips down over a length of 1 mm, this rests perfectly on the one below and the centre-to-centre distance of 71 mm is guaranteed. The flush-mounting frame is equipped, both on the top and the bottom, with a dark grey, plastic end border. This border is made of PC+ASA and is joined to the flush-mounting frame using a melting process. The corners of the two end borders are equipped with rectangular openings (7.9 x 1.5 mm) each containing a multi-positional snap hook. Thanks to the snap hooks, the 4 rectangular openings ensure that the flush surround plate can always be attached flat to the wall, even in cases of untidy plasterwork. This works in two directions: If the flush-mounting box sticks out of the plasterwork, the multi-positional snap hooks can compensate for a 1 to 1.2 mm margin; if the flush-mounting box is sunk too deeply in the plasterwork, the snap hooks can compensate for up to a 1.8 mm margin. The end borders also have 4 round openings that ensure the correct positioning of the flush surround plate in relation to the central plate.

• Connection terminals: 2 connection terminals

• Flush-mounting height: recommended from 0.9 to 1.1 m

• Detection range (PIR): 8 to 9 m horizontal

• Detection angle horizontal: 180°

• Detection angle vertical: 60°

• Flush-mounting depth: 40 mm minimum depth of the flush-mounting box

• Input voltage: 26 Vdc (SELV, safety extra-low voltage)

• You can also turn lighting on and off manually with the push button on the unit. After four hours the light switches off automatically.

• Protection degree: IP20

• Marking: CE

## **Tender Text – Specifications – Detectors**

**Product reference:**

550-20220

**Specification text:**

Mini presence detector, 360°, Niko Home Control, 9 m. The detection area can be divided by means of an adjustable cover mask.

• Input voltage: 26 Vdc (SELV, safety extra-low voltage)

• Light intensity range: 2 lux – 2500 lux

• Detection angle: 360 °

• Detection range (PIR): up to 9 m in diameter from a height of 3 m

• Mounting method: flush-mounting

• Drill diameter: 30 mm

• Dimensions (HxWxD): 13 x 36 mm

• Marking: CE