## OUTDOOR MOTION DETECTOR, KNX, 360°, 16 M, FOR SURFACE MOUNTING



350-213001



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### **1. FUNCTIONAL DESCRIPTION**

The 360° KNX presence detector is designed for outdoor surface-mounted installation on walls (or ceilings) and use in integrated solutions with other KNX system components. The device detects movement and the presence of persons with the aid of Passive InfraRed technology (PIR). The detector has five independent output channels: two light control outputs, two HVAC control outputs and one alarm function output. The detector is designed for outdoor surface mounting on walls or ceilings and has a detection area of 16 meter in diameter from a height of 2,5 meter.

The detector is supplied with power by the KNX bus. Communication on the KNX bus follows the KNX principle. This manual describes the configuration of the detector using the ETS 4.0 software or higher.

## 2. COMMUNICATION OBJECTS



Object number & name		Object function	Description	
0: Secondary input	<b>→</b>	Secondary motion input	Secondary detectors can be connected to the master detector to enlarge the detection area. This object receives the detecting telegram from a secondary detector.	
1: Secondary output	+	Secondary motion output	Send the detecting telegram from a secondary detector to a master detector.	
2: Test output	-	Test mode ON/OFF	Used to check and adjust the detection coverage while installing the detector.	
3: C1 manual input	<b>→</b>	Channel 1 ON/OFF/Dim manual control	Receive a telegram from a push button (ON/OFF/Dim) connected to the bus and control channel 1. The telegram must be a 1-bit value, sending 1 at a push of the button, and 0 when when the button is released.	
4: C2 manual input	<b>→</b>	Channel 2 ON/OFF/Dim manual control	Receive a telegram from a push button (ON/OFF/Dim) connected to the bus and control channel 2. The telegram must be a 1-bit value, sending 1 at a push of the button, and 0 when when the button is released.	
5: C3 manual input	<b>→</b>	Channel 3 ON/OFF manual control	Receive a telegram from a push button (ON/OFF/Dim) connected to the bus and control channel 3. The telegram must be a 1-bit value, sending 1 at a push of the button, and 0 when when the button is released.	
6: C4 manual input	<b>→</b>	Channel 4 ON/OFF manual control	Receive a telegram from a push button (ON/OFF/Dim) connected to the bus and control channel 4. The telegram must be a 1-bit value, sending 1 at a push of the button, and 0 when when the button is released.	
7: C1 Light control output	<del>(</del>	Settings for lighting channel 1 ON/OFF	When movement is detected and the ambient light level is below the pre-set lux value, the output sends an ON telegram. If ambient light is sufficient and/or no person is present, an OFF telegram is sent once the switch-off delay time has elapsed.	
8: C1 Light control dimming value	+	Settings for lighting channel 1 Absolute dimming control	When movement is detected, the output sends a pre-set light level telegram and enters into switch-off delay mode. When the switch-off delay time is elapsed, the output sends a pre-set standby brightness telegram and enters into standby mode. The output sends an OFF telegram once the standby delay time has elapsed.	
10: C1 Constant light control	+	Settings for lighting channel 1 Relative dimming control	When movement is detected, the output sends an ON telegram and executes the constant lighting control function depending on the set point during switch-off delay time. If no person is present, an OFF telegram is sent once the switch-off delay time has elapsed.	
11: C2 Light control output	-	Settings for lighting channel 2 ON/OFF	When movement is detected and the ambient light level is below the pre-set lux value, the output sends an ON telegram ambient light is sufficient and/or no person is present, an OFF telegram is sent once the switch-off delay time has elaps	
12: C2 Light control dimming value	-	Settings for lighting channel 2 Absolute dimming control	When movement is detected or when a telegram is received from a secondary detector, the output sends a pre-set light level telegram and enters into switch-off delay mode. When the switch-off delay time is elapsed, the output sends a pre-set standby brightness telegram and enters into standby mode. The output sends an OFF telegram once the standby delay time has elapsed.	
14: C2 Constant light control	+	Settings for lighting channel 2 Relative dimming control	When movement is detected or when a telegram is received from a secondary detector, the output sends an ON telegram and executes the constant lighting control function depending on the set point during switch-off delay time. If no person is present, an OFF telegram is sent once the switchoff delay time has elapsed.	
15: C3 HVAC control output	+	Settings for HVAC channel 3 ON/OFF	When movement is detected, depending on the input delay, an ON telegram is sent. If no movement is detected, depending on the switch-off delay time, an OFF telegram is sent.	
16: C4 HVAC control output	-	Settings for HVAC channel 4 ON/OFF	When movement is detected, depending on the input delay, an ON telegram is sent. If no movement is detected, depending on the switch-off delay time, an OFF telegram is sent.	
17: Lock alarm	+	Settings for Alarm channel 3 "1" locks "0" unlocks	"1" locks the alarm function, while "0" unlocks the alarm function.	
18: Alarm output	+	Settings for Alarm channel 3 ON/OFF	An alarm is triggered if a continuous number of movements are detected within a parameter in a certain time frame. Different time frames can be defined for the switching ON and OFF of an alarm.	

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## 3. PARAMETERS

To configure the 360° KNX presence detector with the KNX ETS software, you should open the parameter screen of the presence detector. To do this, select the presence detector in the Devices panel of the respective project and click on the Parameter tab.

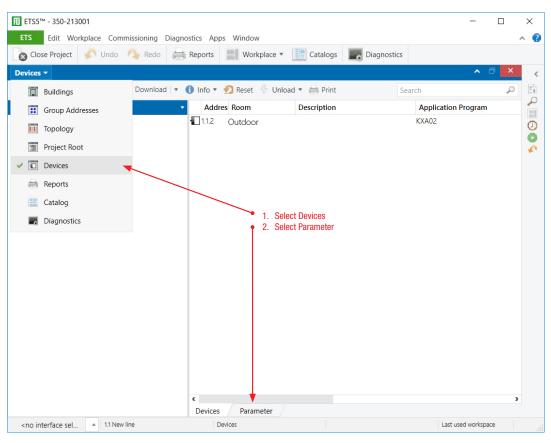


Figure 1: Devices panel

## 3.1. GENERAL

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1.1.2 350-213001	General	Sensor warm-up time after voltage recovery	Need about 60sec to stabilize the ser	nsor
	Motion sensors	The device type is	Master      Secondary	•
		> Input Secondary	Light output C2	•
	Light control output C1	> Light control output C1	Oisable O Enable	
	Light control output C2	> Light control output C2	Oisable O Enable	
	HVAC control output C3	> HVAC control output C3	O Disable O Enable	
	HVAC control output C4	> HVAC control output C4	O Disable O Enable	
	Alarm function	> Alarm function	Oisable O Enable	
	Group Objects Parameter			

Figure 2: General panel



Parameter	Description			
The device type is	With this parameter the detector can be configured as master or secondary device. Default Value: Master			
	Master	When the device type is set to Master, all the functions and parameters are applicable. A master device can receive the triggering signal from one or more secondary detectors. However, the signal reception channel can be selected depending on the requirement.		
	Secondary	When the device type is set to Secondary, it is used exclusively to extend the detection area. Only the Motion sensors panel (to configure the sensor sensitivity) will be shown. When the secondary detector detects movement, it transmits a signal to the Master for evaluation according to the set parameters.		
Input Secondary	Select Light Output C1, C2, C3 or C4 to receive a s Default value: Light output C1	econdary signal or not		
	Light output C1 Light output C2 HVAC output C3 HVAC output C4	Assign the appropriate channel to receive the signal from a secondary detector. Please refer to above mentioned section "Master/secondary" for detailed information.		
Light control output C1	When light control output C1 is set to Enable, the re panel for this channel is hidden. Default: Enable	espective parameter panel for this channel is shown. When Light control output C1 is set to Disable, the respective parameter		
	Disable	Light control output C1 is not active and the respective parameter panel is hidden.		
	Enable	Light control output C1 is active and the respective parameter panel is shown.		
Light control output C2	When light control output C2 is set to Enable, the respective parameter panel for this channel is shown. When Light control output C2 is set to Disable, the respective parameter panel for this channel is hidden. Default: Disable			
	Disable	Light control output C2 is not active and the respective parameter panel is hidden.		
	Enable	Light control output C2 is active and the respective parameter panel is shown.		
HVAC control output C3	When HVAC control output C3 is set to Enable, the respective parameter panel for this channel is shown. When HVAC control output C3 is set to Disable, the respective parameter panel for this channel is hidden. Default: Disable			
	Disable	HVAC control output C3 is not active and the respective parameter panel is hidden.		
	Enable	HVAC control output C3 is active and the respective parameter panel is shown.		
HVAC control output C4	When HVAC control output C4 is set to Enable, the panel for this channel is hidden. Default: Disable	respective parameter panel for this channel is shown. When HVAC control output C4 is set to Disable, the respective parameter		
	Disable	HVAC control output C4 is not active and the respective parameter panel is hidden.		
	Enable	HVAC control output C4 is active and the respective parameter panel is shown.		
Alarm function	When Alarm function output is set to Enable, the re this output is hidden. Default: Disable	spective parameter panel for this output is shown. When Alarm function output is set to Disable, the respective parameter panel for		
	Disable	Alarm function output is not active and the respective parameter panel is hidden.		
	Enable	Alarm function output is active and the respective parameter panel is shown.		

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## 3.2. MOTION SENSORS

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Devices	1.1.2 350-213001 > Motion :	sensors			
1.1.2 350-213001	General	External switch as ON/OFF/Dim input	● NO ○ YES		
	Motion sensors	Lux/Time/Meter/STBY selected by	© ETS ○ IR		÷
	Light control output C1	> Test mode (activated for 10min. ,After download by choosing "Enable")	O Disable C Enable		
	Light control output C2	> Sensor sensitivity (Front area)	Maximum		•
	HVAC control output C3	Sensor sensitivity (Lower area)     Maximum     LED ON when PIR trigged     Disable     Disable		-	
	HVAC control output C4				
	Alarm function				
	Course Objects				
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Figure 3: Motion sensors - Master

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E Devices •	1.1.2 350-213001 > Motion	sensors				
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1.1.2 350-213001	General	When the device type is selected by	Secondary			0
	Motion sensors	> Sensor sensitivity (Front area)	Maximum		-	*
		> Sensor sensitivity (Lower area)	Maximum		•	
		LED ON when PIR trigged	🔵 Disable 🔘 Enable			
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Figure 4: Motion sensors - secondary

### 350-213001



Parameter	Description		
External push button as ON/ OFF/Dim input	The Manual ON/OFF and DIM function can be operate Default: NO	ed by an external push button that is connected to the KNX bus system with a KNX interface module.	
	NO	Disable this feature.	
	YES	Enable this feature.	
lux/Time/Meter/STBY selected by	The lux-, Time-, Meter- and STBY-setting of the detec Note: It is only valid for C1 and C2. Default: ETS	tor can be changed by the KNX ETS software or the IR remote control (350-999908).	
	ETS	When the control mode is set to "ETS", all the parameters on the detector can only be changed by the KNX ETS software after completing the object build up. Value settings performed by the potentiometer on the detector or by the IR remote control (350-999908) are invalid.	
	IR	When the control mode is set to "IR control", all the parameters on detector can be changed by the IR remote control (350- 999908): changing the switch-off delay value, switch on lux value, etc.	
Test mode		ion sensors. When Test mode is set to Enable, the test mode will be activated after storing the settings in the device and will be then enter into auto mode or semi-auto mode according to the setting of Auto-Semi-auto select.	
	Disable	Test mode function is disabled.	
	Enable	Test mode function is activated. Once the movement is detected, both the load and the red LED turn on for 2sec and then off for 2sec.	
Sensor sensitivity (Front area)	This parameter is used to increase or decrease the sensitivity of the PIR-sensor for the front area of the detector. The sensitivity can be adjusted according to user's requirement whether the detector is configured as master or secondary. Default: Maximum		
	Maximum	Set the PIR-sensor for the front area to maximal sensitivity.	
	High	Set the PIR-sensor for the front area to high sensitivity.	
	Medium	Set the PIR-sensor for the front area to medium sensitivity.	
	Low	Set the PIR-sensor for the front area to minimal sensitivity.	
	Off	Deactivate the detecting function of the PIR-sensor for the front area.	
Sensor sensitivity (Lower area)	This parameter is used to increase or decrease the se whether the detector is configured as master or secon Default: Maximum	nsitivity of the PIR-sensor for the underlying area of the detector. The sensitivity can be adjusted according to user's requirement ndary.	
	Maximum	Set the PIR-sensor for the underlying area to maximal sensitivity.	
	High	Set the PIR-sensor for the underlying area to high sensitivity.	
	Medium	Set the PIR-sensor for the underlying area to medium sensitivity.	
	Low	Set the PIR-sensor for the underlying area to minimal sensitivity.	
	Off	Deactivate the detecting function of the PIR-sensor for the underlying area.	
LED ON when PIR triggered	If this parameter is enabled, the indication LED on the Default: Enable	detector will switch on when the PIR-sensor is triggered.	
	Disable	The LED will give no indication when the PIR-sensor is triggered. Other LED indicating functions will remain.	
	Enable	LED will turn on for 1 sec for indication when PIR-sensor is triggered.	

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## 3.3. LIGHT CONTROL OUTPUT (C1 AND C2)

The light control outputs C1 and C2 can be configured as switching output or dimming output.

#### 3.3.1. LIGHT CONTROL OUTPUT - SWITCHING

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Devices	1.1.2 350-213001 > Light cor	ntrol output C1			
<ul> <li>1.1.2 350-213001</li> </ul>	General	Auto/Semi auto select	O Auto Semi auto		0
	Motion sensors	Output type	Switching Dimming		**
	Light control output C1	When Lux/Time/Meter/STBY selected by	ETS		
	Light control output C2	> Switch ON Lux value 2000Lux		•	
		> Lighting delay time	5min.	-	
	HVAC control output C3				
	HVAC control output C4				
	Alarm function				
	Group Objects Parameter				
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#### Figure 4: Light control output – switching

Parameter	Description		
Auto/Semi auto select	This parameter is used to activate / deactivate Aut Default: Auto	to mode or Semi auto mode of the concerned light control output (C1 - C2).	
	Auto	When Auto mode is activated, the load will turn on automatically when movement is detected and the ambient light level is below the lux setting value. When movement is no longer detected and the switch-off delay time has expired, the load will turn off automatically.	
	Semi auto	When Semi auto mode is activated, the load can only be switched on manually with the connected external push button. When movement is no longer detected and the switch-off delay time has expired, the load will turn off automatically.	
Output type	This parameter is used to configure the output type of the detector as switching output or dimming output. Default: Switching		
	Switching	Configure the output type of the the concerned light control output ( $C1 - C2$ ) as switching output. That way, a switching actuator can be connected for ON/OFF operation.	
	Dimming	Configure the output type of the light control output as dimming output. That way, a dimming actuator can be connected for output operation (with absolute brightness, standby brightness and/or constant brightness control).	
Switch ON lux value	This parameter is used to set the desired lux value at which the sensor output must switch on. You can select the value via a drop-down list. Default: 2000 lux		
	5 – 2000, ∞ lux	Use the drop-down list to set the desired Switch on lux value for the concerned light control output (C1 $-$ C2). Infinity: not controlled by lux value.	
Lighting delay time	This parameter is used to set the switch-off delay Default: 5 min	value. You can select the value via a drop-down list.	
	5 sec – 60 min	Use the drop-down list to set the desired switch-off delay value for the concerned light control output (C1 $-$ C2).	

### 3.3.2. LIGHT CONTROL OUTPUT - DIMMING

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	Motion sensors	Output type	Switching O Dimming	*		
	Light control output C1 HVAC control output C3	> Dimming value during ON phase	100%	•		
		> Constant light control Preset setpoint	O Disable O Enable			
			300Lux	-		
		-Lux deviation	10	* *		
		-Time after switch-on until constant light control starts	1min.	•		
		When Lux/Time/Meter/STBY selected by	ETS			
		> Switch ON Lux value	2000Lux	-		
		> Lighting delay time	5min.	•		
		> Lighting standby time	O Disable O Enable			
		-Standby time	5min.	-		
		-Standby brightness	10%	-		
	Group Objects Parameter					
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Figure 5: Light control output – dimming

Parameter	Description			
Auto/Semi auto select	This parameter is used to activate / deactivate Auto mode or Semi auto mode of the concerned light control output (C1 – C2). Default: Auto			
	Auto	When Auto mode is activated, the load will turn on automatically when movement is detected and the ambient light level is below the lux setting value. When movement is no longer detected and the switch-off delay time has expired, the load will turn off automatically.		
	Semi auto	When Semi auto mode is activated, the load can only be switched on manually with the connected external push button. When movement is no longer detected and the switch-off delay time has expired, the load will turn off automatically.		
Output type	This parameter is used to configure the output type o Default: Switching	f the detector as switching output or dimming output.		
	Switching	Configure the output type of the concerned light control output (C1 $-$ C2) as switching output. That way, a switching actuator can be connected for ON/OFF operation.		
	Dimming	Configure the output type of the light control output as dimming output. That way, a dimming actuator can be connected for output operation (with absolute brightness, standby brightness and/or constant brightness control).		
Dimming value during ON phase	This parameter is used to set the initial dimming valu Default: 100%	e at which the lighting will switch on.		
	1% - 100%	Use the drop-down list to set the desired dimming value at which the lighting will switch on.		
Constant light control	This parameter is used to activate or deactivate the constant light control function. According to the changing ambient light level, the load will be dimmed brighter or darker automatically to match the Preset setpoint or light intensity setting. Default: Disable			
	Disable	Deactivate the constant light control function.		
	Enable	Activate the constant light control function.		
Preset setpoint	This parameter is used to set the pre-set lux value for constant light control function and can only be set by the KNX ETS software. Default: 300 lux			
	10 lux – 2000 lux	Use the drop-down list to set the desired pre-set setpoint (in lux) for constant light control.		
Lux deviation	This parameter is used to set the deviate value of cor Default: 10 lux	stant dimming function. The dimming output will react (dim up or down) depending on the deviation of the ambient light level.		
	0 – 255 lux	Set the ambient light level deviation for dimming up / down of the dimming output.		
Time after switch-on until constant light control starts	This parameter is used to set the time before the exe Default: 1 min	cution of the constant light control function starts, after the load is witched on.		
	1 sec. – 5 min.	Use the drop-down list to set the standby time of constant light control. It is mainly used to set the time of lighting from power on to stable.		
Switch ON lux value	This parameter is used to set the desired lux value at Default: 2000 lux	which the sensor output must switch on. You can select the value via a drop-down list.		
	5 – 2000, ∞ lux	Use the drop-down list to set the desired Switch on lux value for the concerned light control output (C1 $-$ C2). Infinity: not controlled by lux value.		
Lighting delay time	This parameter is used to set the switch-off delay val Default: 5 min	ue. You can select the value via a drop-down list.		
	5 sec – 60 min	Use the drop-down list to set the desired switch-off delay value for the concerned light control output (C1 – C2).		



Lighting standby time		When the lighting standby time is set to Enable, the detector is set to standby light control mode after the switch-off delay is elapsed. Selecting Disable will deactivate the standby light control mode, meaning the load will turn off directly when the switch-off delay is elapsed. Default: Disable		
	Disable	Deactivate the standby light function and the load will turn off directly when the switch-off delay is elapsed.		
	Enable	Activate the standby light function and detector enters into standby light control mode when the switch-off delay is elapsed.		
Standby time	This parameter is used to set the time perilist. Default: 5 min			
	30 sec. – 60 min. , ∞ min	Use the drop-down list to set the desired standby time for the concerned light control output ( $C1 - C2$ ). Infinity: the standby light control mode will remain activated until a new output command is sent.		
Standby brightness	This parameter is used to set the standby Default: 10%	brightness level. You can select the value via a drop-down list.		
	1%-60%	Use the drop-down list to set the desired standby brightness level for the concerned light control output (C1 – C2).		

## 3.4. HVAC CONTROL OUTPUT

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	Motion sensors	HVAC switch-'ON' delay     1min.       HVAC delay time     5min.       Behaviour at switching on lock by communication object     Switch on       Behaviour at switching off lock by communication object     Switch off	1min.		•	
	Light control output C1		5min.		•	
	Light control output C2			•		
	HVAC control output C3		Switch off		•	
	HVAC control output C4					
	Alarm function					
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#### Figure 6: HVAC control output

Parameter	Description		
Auto/Semi auto select	This parameter is used to activate/deactivate the auto-/semi-auto mode of the concerned HVAC control output (C3-C4). Default: Auto		
	Auto	When Auto mode is activated, the load will turn on automatically when movement is detected and the ambient light level is below the lux setting value. When movement is no longer detected and the switch-off delay time has expired, the load will turn off automatically.	
	Semi auto	When Semi auto mode is activated, the load can only be switched on manually with the connected external push button. When movement is no longer detected and the switch-off delay time has expired, the load will turn off automatically.	
HVAC switch-"ON" delay	This parameter is used to set the desired switch-on delay time of the HVAC control output. When movement is detected, the HVAC control output will be switched on after the configured switch-on delay time. Default: 1 min		
	0 – 30 min	Use the drop-down list to set the desired switch-on delay time for the concerned HVAC control output (C3 $-$ C4).	
HVAC delay time	This parameter is used to set the switch-off delay value of the concerned HVAC control output (C3 – C4). You can select the value via a drop-down list. Default: 5 min		
	5 sec – 60 min	Use the drop-down list to set the desired switch-off delay time for the concerned HVAC control output (C3 – C4).	
Behaviour at switching on lock by communication object	This parameter is used to set the output status of the detector when it is triggered and switched on. Default: Switch on		
	No reaction	Use the drop-down list to set the operation mode when HVAC is switched on.	
	Switch off		
	Switch on		

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Behaviour at switching off lock by communication	It is used to set the output status of detector when it is triggered and switched off. Default: Switch off		
object	No reaction	Use the drop-down list to set the operation mode when HVAC is switched off.	
	Switch off		
	Switch on		

### **3.5. ALARM FUNCTION**

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Devices     Dynamic Folders	1.1.2 350-213001 > Alarm functio	n		
1.1.2 350-213001	General	Duration of one switch-on window	0.3sec.	· O
	Motion sensors	Number of switch-on windows     10       Duration of one switch-off windows     0.3sec.       Number of switch-off windows     10	10	÷
	Light control output C1		0.3sec.	•
	Light control output C2		10	*
	Light control output cz	Alerm Behaviour at switching off	No reaction	•
	HVAC control output C3	Alerm Behaviour at switching on	No reaction	-
	HVAC control output C4			
	Alarm function			
	Course Obligate - Descenden			
<no interface="" select<="" td=""><td>Group Objects Parameter    1.1 New line</td><td>1.1.2 350-213001</td><td>Last</td><td>used workspace</td></no>	Group Objects Parameter    1.1 New line	1.1.2 350-213001	Last	used workspace

Figure 6: Alarm function

An alarm is triggered if a continuous number of movements are detected within a parameter in a certain time frame. Different time frames can be defined for the switching ON and OFF of an alarm.

The alarm function can be set to react differently or the same at switch ON and switch OFF. The alarm output (object 18) can be locked using object 17. There are several options for the alarm behaviour at switching lock ON or OFF via object 17: "no reaction", "switch off", "switch on". The number of detected movements within a time frame can be set.

Parameter	Description		
Duration of one switch-on window	This parameter is used to set the time condition for the alarm to be switched on. Default: 0.3 sec		
	0.3 sec - 1 hour	Use the drop-down list to set the time condition for the alarm to be switched on.	
Number of switch-on windows	This parameter is used to set the number of times movement must be detected within a certain period to switch on the alarm. Default: 10		
	0 – 100	Use the increase- or decrease arrows to set the number of times movement must be detected within a certain period to switch on the alarm.	
Duration of one switch-off window	This parameter is used to set the time condition for the alarm to be switched off. Default: 5 min		
	0.3 sec - 1 hour	Use the drop-down list to set the time condition for the alarm to be switched off.	
Number of switch-off windows	This parameter is used to set the number of times movement must be detected within a certain period to switch off the alarm. Default: 10		
	0 – 100	Use the increase- or decrease arrows to set the number of times movement must be detected within a certain period to switch off the alarm.	
Alarm behaviour at switching off	This parameter is used to set the alarm behaviour of the detector when it is triggered and switched off. Default: No reaction		
	No reaction	Use the drop-down list to set the time condition for the alarm to be switched off.	
	Switch off		
	Switch on		
Alarm behaviour at switching on	This parameter is used to set the alarm behaviour of the detector when it is triggered and switched on. Default: No reaction		
	No reaction	Use the drop-down list to set the alarm behaviour of the detector when it is triggered and switched on.	
	Switch off		
	Switch on		