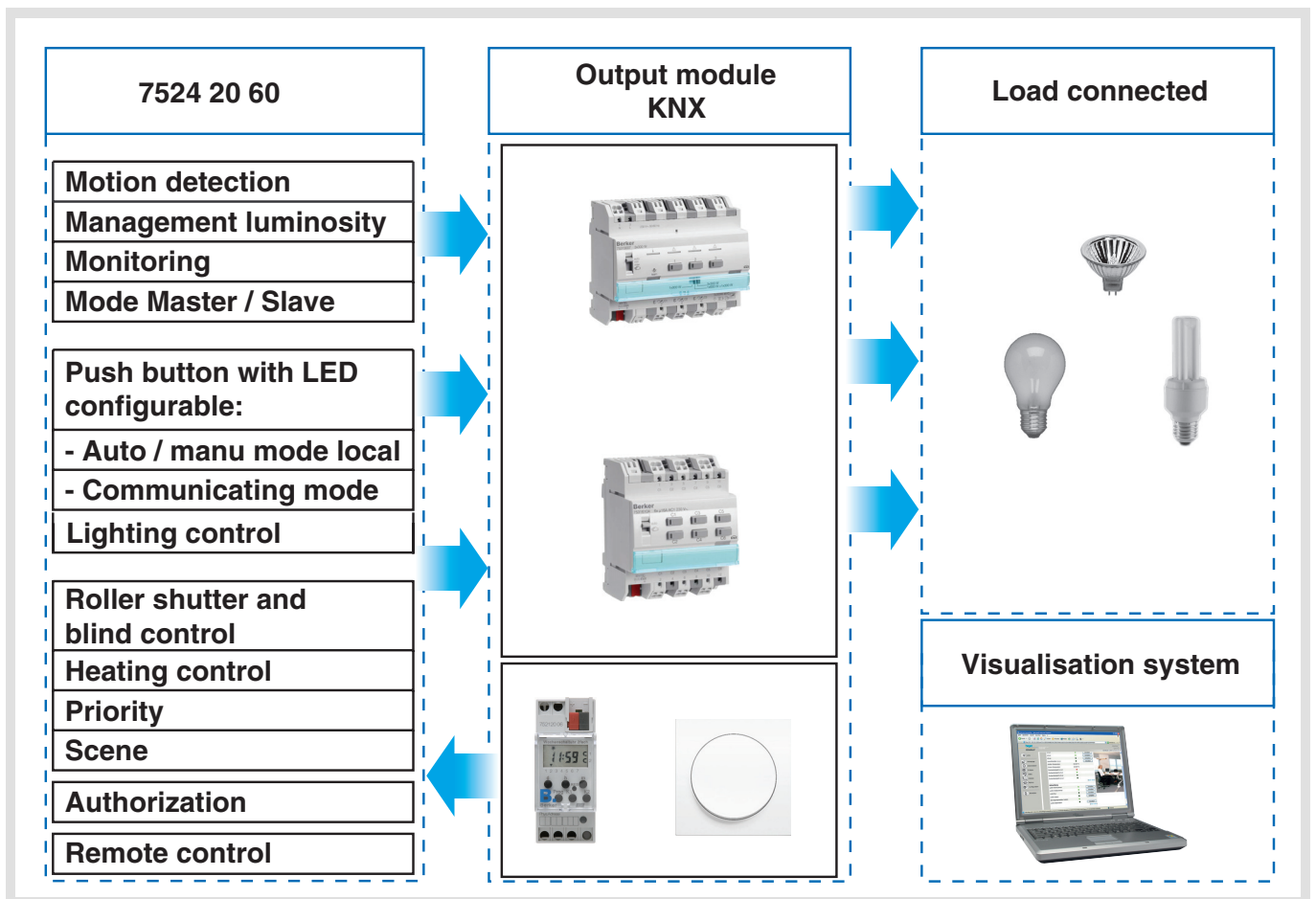


Application software

KNX Movement detector module
 2 channels motion detector with push button
Electrical/Mechanical characteristics: see user's instructions

	Product reference	Product designation
	7524 20 60	KNX Movement detector module



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1. Presentation of the functions

The main functions of the 75242060_V01 application are the following:

■ Détection de mouvement

The motion detector is sensitive to infrared rays associated with heat emitted by moving bodies. In case of motion detection, lighting, priority or scenes commands may be sent.

Removable shutters allow limiting the detection area to adapt the motion detector to its environment.

■ Lighting channel

The lighting channel controls a lighting circuit according to the ambient brightness and to the motion detection. A function like ON/OFF, Timer, Illumination value, Illumination value for Presence and Absence, Scene and Scene for Presence and Absence can be defined.

■ Surveillance channel

The Surveillance channel sends commands on the bus according to motion detection. The ambient brightness will not be taken into account. A function like ON/OFF, Timer, Illumination value, Illumination value for Presence and Absence, Scene and Scene for Presence and Absence can be defined.

■ Ambient brightness threshold

The ambient brightness threshold can be defined by ETS or directly on the device via a potentiometer. This threshold value defines the brightness level (darkness) from which, in case of motion detection a command is sent on the bus via the Lighting channel.

■ Switch OFF delay (Lighting channel and surveillance channel)

The Switch OFF delay is activated while switching from Absence (no movement) to Presence (movement). On the Lighting channel, the ambient brightness is also taken into account. The motion detector switches back to Absence mode (no movement) at the end of the delay. According to the function set for this channel, a telegram is sent on the bus in case of Presence and/or Absence. The switch OFF delay can be defined by the ETS or via the setting potentiometer on the device.

■ Remote control of the Lighting channel

The remote control is aimed to control the Lighting channel without taking into account the motion detection or the brightness threshold. An ON command on the Remote control object switches the motion detector in the Presence mode. An OFF command on the Remote control object switches the motion detector in the Absence mode.

■ Brightness probe locking (Lighting channel)

When the brightness probe is locked, the motion detector will send commands on the bus on the Lighting channel without taking into account the ambient brightness.

■ Lighting channel and Surveillance channel authorization

This function authorizes or inhibits motion detection on the Lighting and on the Surveillance channel.

■ Master/Slave

This function extends the motion detector's detection area by associating it with several other detectors. The slave motion detectors capture movement (without taking account of the ambient brightness) and transmit the movement information to the master detector.

■ Scene and Scene Presence/Absence functions

The Scene function allows calling a scene in case of motion detection (scene no. 1 to scene no. 32). If necessary, the ambient brightness can be taken into account.

The Scene Presence/Absence function allows switching between two scenes. A scene is then active in case of motion detection (Presence) and another scene is active in case of no motion detection (Absence). If necessary, the ambient brightness can be taken into account.

■ Push button

The push button on the motion detector may be used either for local operation or as a communicating push button. In case of local operation, the key allows switching between automatic and manual mode. When using it as a communicating push button, it allows selecting the following functions: ON/OFF, Toggle switch, Timer, Dimming, Shutters/blinds, Heating setpoint, Priority, Scene, Value, 2-channel ON/OFF mode.

If the push button is used to switch between automatic and manual mode, the LED on the push button will be ON in manual mode. The blinking of the LED indicates that the manual mode is limited to 1 hour and that, when the hour has elapsed, the motion detector will switch back to automatic mode. Manual mode is locked when the push button is pressed for more than 10 seconds. The locking can be cancelled by pressing again for more than 10 seconds.

2. Configuration and parameterising

2.1 Motion detector objects list (without bus key)

Function Object name	Not used	ON/OFF	Timer	Illumination value	Illumination value Presence / Absence	Scene	Scene Presence / Absence
ON/OFF *	X	X	X				
Status indication ON/OFF *		X	X	X			
Timer *			X				
Dimming *				X			
Scene *						X	X
Remote control		X	X	X	X	X	X
Slave Input	X ₁	X ₁	X ₁	X ₁	X ₁	X ₁	X ₁
Slave Output	X ₂	X ₂	X ₂	X ₂	X ₂	X ₂	X ₂
Brightness probe locking	X ₃	X ₃	X ₃	X ₃	X ₃	X ₃	X ₃
Timer/toggle change over *	X ₄	X ₄	X ₄	X ₄	X ₄	X ₄	X ₄

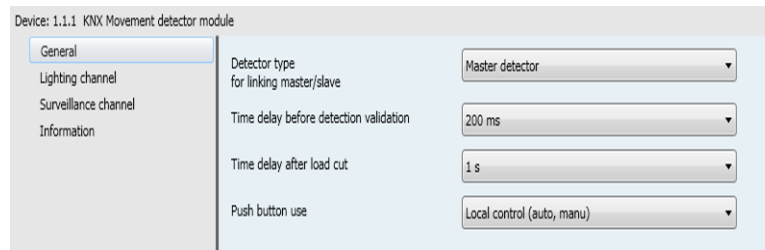
* These objects will be differentiated in the Lighting channel and in the Surveillance channel

1. The Slave input object is available when the Detector is used as master detector. This object allows using a slave detector in order to extend the detection area.
2. The Slave output object is available only when the Detector is used as a slave detector. This object allows sending to a master detector the Motion detected information. The slave detector is then used to extend the detection area of the master detector.
3. The Brightness probe locking object allows inhibiting the brightness measurement of the Lighting channel. The emission of the channel then only depends on the motion (and on the switch OFF delay).
4. The Timer/toggle change over object is available both for the Lighting channel and for the Surveillance channel. This object authorizes or inhibits the concerned channel.

2.2 General parameters

The general configuration screen is mainly used to configure basic operation: type of detector (Master or Slave) and use of the pushbutton located on the product (local control or communicating pushbutton).

→ Parameter Setting screen



Screen 1

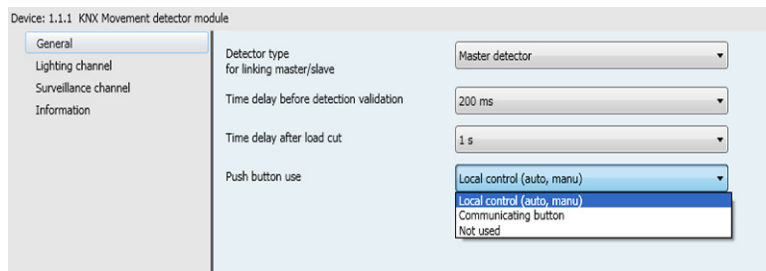
→ Parameters

Designation	Description	Values
Detector type for linking master/slave	Allows configuring the detector as a Master (it measures and manages the brightness) or as a Slave (no brightness measurement).	Master detector, Slave detector. Default value: Master detector.
Time delay before detection validation	Used to define immunity after each detection: if an ON/OFF information object emitted by the pilot arrives during this time delay, detection is invalidated.	Not used, 50 ms, 100 ms, 200 ms, 300 ms, 500 ms, 750 ms, 1 s. Default value: 200 ms.
Time delay after load cut	Used to define immunity after sending an OFF command to the pilot: movement detection is inhibited during this time delay.	Not used, 50 ms, 100 ms, 200 ms, 300 ms, 500 ms, 750 ms, 1 s, 1.5 s, 2 s, 2.5 s, 3 s, 4 s, 5 s. Default value: 1 s.
Push button use	Used to define the function of the pushbutton on the product. If the pushbutton is a communicating pushbutton, additional parameters appear*.	Local control (Auto/Manu), Communicating push button, Not used. Default value: Local control (auto, manu).

2.2.1 Push button function

The push button on the motion detector may be used either for local operation or as a communicating push button. In case of local operation, the key allows switching between automatic and manual mode. When using it as a communicating push button, it allows selecting the following functions: ON/OFF, Key, Timer operation, Dimming, Shutters/Blinds, Set point selection, Priority, Scene, Value, Two-channel mode ON/OFF and Two-channel mode value.

If the push button is used to switch between automatic and manual mode, the LED on the push button will be ON in manual mode. The blinking of the LED indicates that the manual mode is limited to 1 hour and that, when the hour has elapsed, the motion detector will switch back to automatic mode (to reach this mode, press the key for at least 3 seconds).

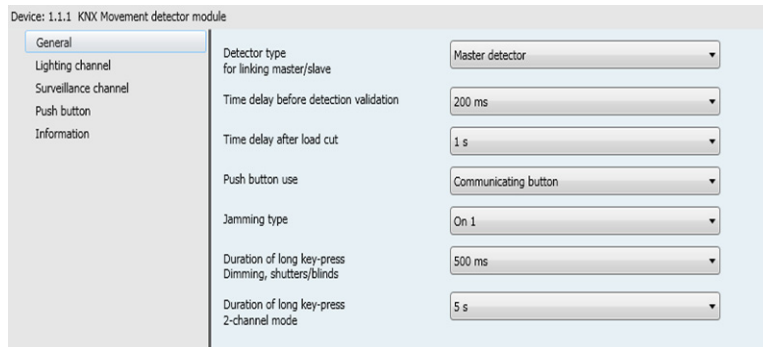


Screen 2

Designation	Description	Values
Push button use	Used to define the function of the pushbutton on the product.	Local control (Auto/Manu), Communicating button, Not used Default value: Local control (auto, manu).

2.2.1.1 Parameters when used as communicating push button

When using the local push button as a communicating push button, the following additional parameters can be set.



Screen 3

Designation	Description	Values
Jamming type	The Jamming function authorizes product locking. Jamming forbids sending commands. This parameter defines the level at which jamming is active.	On 1, On 0. Default value: On 1.
Duration of long key-press Dimming, shutters/blinds	This parameter defines the duration of a long push button press for sending Dimming or Up/Down commands. In Timer mode, the length of this long key-press will be used to take account of a timer interruption.	400 ms, 500 ms, 600 ms, 700 ms, 800 ms, 900 ms, 1 s. Default value: 500 ms.
Duration of long key-press 2-channel mode	This parameter defines the length of a long push button press for activating 2-channel mode.	500 ms, 1 s, 2 s, 3 s, 4 s, 5 s, 6 s, 7 s, 8 s, 9 s, 10 s. Default value: 5 s.

2.2.1.2 Push button parameters setting

- Jamming function parameters



Screen 4

The Jamming function authorizes push button locking. Jamming forbids sending commands. This function is started by the General - Jamming object. Jamming is indicated by the indicator flashing for 5 seconds when the push button is pressed.

Designation	Description	Values
Jamming	This parameter defines whether push button jamming by a distinct object is permitted.	Not used, Used Default value: Not used

- Description of the ON/OFF, toggle switch, time-limited toggle switch and timer functions

ON/OFF:

Pressing the pushbutton switches the circuit ON or OFF (no change after pressing again).

Description: After pressing the pushbutton, an ON or OFF command will be sent to the bus via the ON/OFF object. The command sent is not linked to the output's previous status. The command to be sent (ON or OFF) must be defined in the parameters.

Furthermore, it can be specified whether the command must be sent when the pushbutton is pressed or released (see parameter settings).

Toggle switch:

Pressing the push button inverts the output.

Description: After pressing the pushbutton, depending on the Status indication object, an ON or OFF command will be sent to the bus via the ON/OFF object. The command sent to the bus is the inverse of the previous command (previous command: ON → OFF command sent; previous command: OFF → ON command sent).

Time-limited toggle switch:

A short push button press: The output's status is inverted. The status changes after each new short key-press. If there is no short key-press, the output will be switched OFF once the delay time has elapsed. A long push button press restarts the delay time.

Description: A short key-press sends the Time-limited toggle switch object to the bus with the value of the inverse of the Status indication object. A long push button press sends an ON command via the Time-limited toggle switch object.

Upon receipt of an ON command from the limited toggle switch object, products output switch the output to ON for the set time. Upon reception of an OFF command from the time-limited toggle switch, the outputs switch to OFF. Reception of an ON command while the output is still set to ON restarts the delay time.

Timer:

A short push button press: The output contact switches to ON for the output's set time.

A long push button press: Timer interruption and output stopped.

Description: A short key-press sends an ON command to the bus via the Timer object. A long key-press sends an OFF command to the bus via the Timer object.

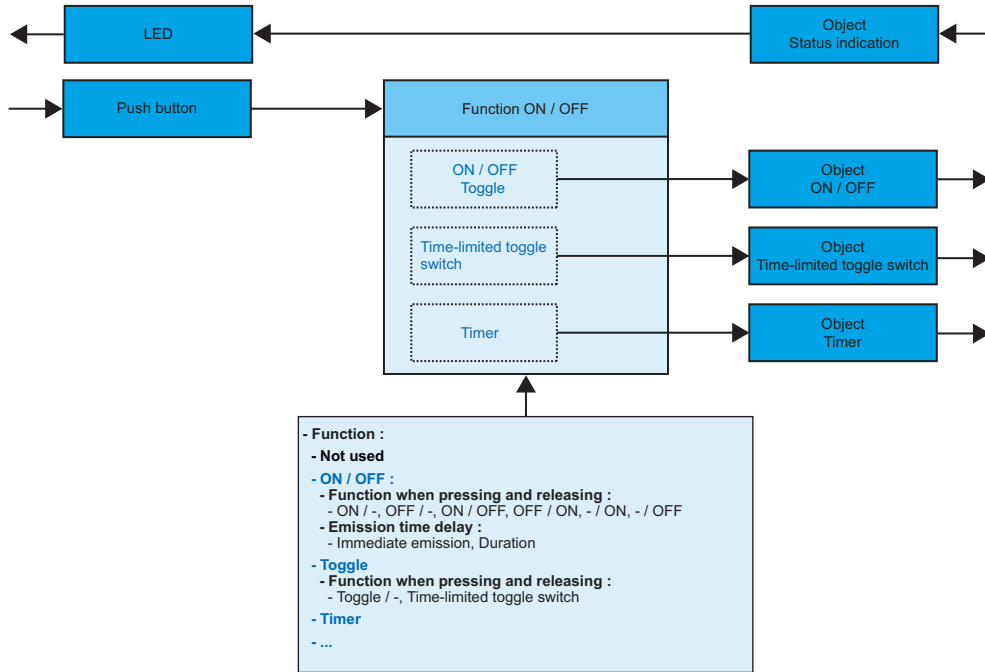
Upon receipt of an ON command object timer products output switch the output to ON for the set time.

Additional ON commands on the timer object within 10 s. increase the output's delay time period (on release products) as follows:

$$\text{ON-switching time} = (1 + \text{Number of repeated key-presses}) * \text{time set.}$$

The delay time starts after the last key-press. An ON command received after the 10s resets the set delay time. An OFF command switches immediately the output to OFF.

Description of the ON/OFF, toggle switch, time-limited toggle switch and timer functions



• ON/OFF function parameters

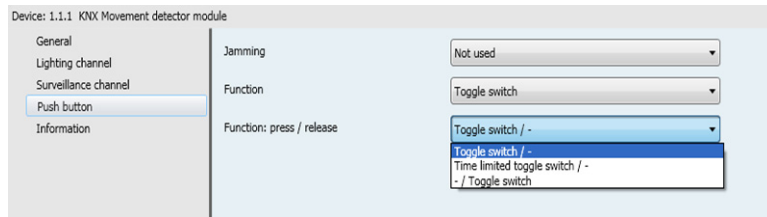


Screen 5

Designation	Description	Values
Function: press / release	This parameter defines the commands sent when the push button is pressed and released.	ON/-, OFF/-, ON/OFF, OFF/ON, -/ON, -/OFF. Default value: ON/-. Command when pressing/Command when releasing (" - " = No action).
Emission time delay*	This parameter sends commands with a set delay in relation to pressing or releasing.	Immediate emission, 1 s, 2 s, 3 s, 5 s, 10 s, 15 s, 20 s, 25 s, 30 s, 40 s, 50 s, 1 min, 1 min 30 s, 2 min, 2 min 30 s, 3 min, 3 min 30 s, 4 min, 4 min 30 s, 5 min. Default value: Immediate emission.

* The emission time delay is not available for the ON/OFF or OFF/ON functions.

- Toggle function parameters

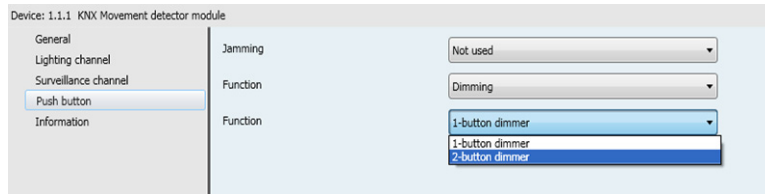


Screen 6

Designation	Description	Values
Function : press and release	This parameter defines the commands sent when the push button is pressed and released.	Toggle switch / -, Time limited toggle switch, -/Toggle switch. Default value: Toggle switch / -. Command when pressing/Command when releasing (" - " = No action).

- Dimming function parameters

This function dims/switches a lighting circuit using one or two push buttons.
A short key-press sends ON/OFF commands to the bus via the ON/OFF object.
A long key-press sends a dimming command (increase or decrease) to the bus via the Dimming object.



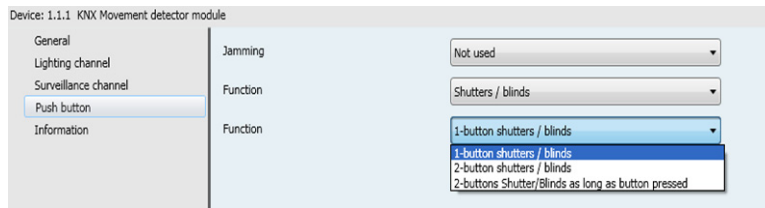
Screen 7

Designation	Description	Values
Function	This parameter selects the utilization mode: 1-button dimmer or 2-button dimmer.	1-button dimmer, 2-button dimmer. Default value: 1-button dimmer.
Dimming direction*	This parameter defines the dimming direction associated to the button.	Increase, Decrease. Default value: Increase.

*This parameter only appears when the Function parameter has the value 2-button dimmer.

- Shutters / Blinds function parameters

This function controls shutters or a blind using one or two push buttons.
A long key-press sends raising or lowering commands to the bus via the Up/Down object.
A short key-press sends stop or slat angle value commands to the bus via the Stop/Angle object.



Screen 8





Designation	Description	Values
Function	This parameter selects the utilization mode.	1-button shutters / blinds 2-button shutters / blinds 2-buttons Shutter/Blinds as long as button pressed* Default value: 1-button shutters / blinds
Control type**	This parameter defines the movement direction associated to the button.	Up, Down. Default value: Up.

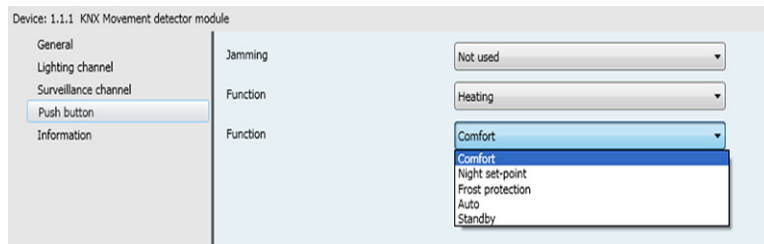
* Pressing the push button sends Up or Down commands to the bus via the Up/Down object. When the push button is released, a Stop command is sent via the Stop/Angle object.

**This parameter is only visible when the Function parameter has the value : 2-button shutters / blinds, 2-buttons Shutter/Blinds as long as button pressed.

- Heating set points function parameters

This function is used to select the setpoint for heating/air-conditioning.
The 1-byte heating setpoint object sends the following values:

Values	Product designation	Icon
0	Auto	
1	Comfort	
2	Absence	
3	Reduced	
4	Frost protection	



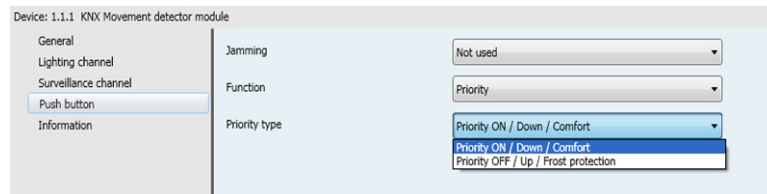
Screen 9

Designation	Description	Values
Function	This parameter selects the setpoint associated to the button.	Comfort, Night set-point, Frost protection, Auto, Standby. Default value: Comfort.

- Priority function parameters

The Priority function sends priority-start or priority-stop commands. The Priority object is sent when the push button is pressed. The Priority action depends on the type of application controlled: Lighting, shutters/blinds, heating, etc.. The 2-bit priority object sends the following values

Values		Output behaviour
Bit 1	Bit 0	
0	0/1	Priority-end
1	0	Priority OFF - Up - Frost protection
1	1	Priority ON - Down - Comfort



Screen 10

Designation	Description	Values
Priority type	This parameter selects a Priority type.	Priority ON - Down - Comfort * Priority OFF - Up - Frost protection * Default value: Priority ON - Down - Comfort

* Pressing the push button sends alternatively a priority-start request and a priority-end request.

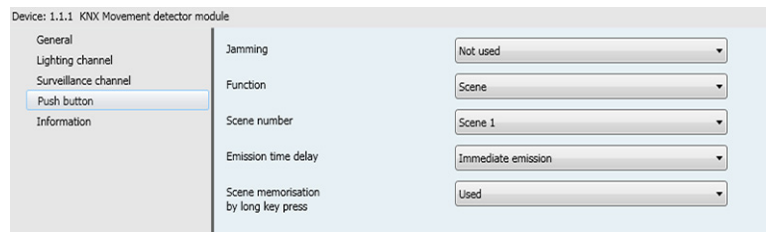
- Scene function parameters

The Scene function sends group controls sent to different kinds of outputs to create ambiences or scenarios. Pressing the push button activates or stores a scene from 1 to 32. A short key-press sends a Scene object with a value of between 0 and 31 (value 0 = scene 1, value 31 = scene 32) to the bus. The command is sent when the push button is released. If the Scene memorisation by long key press parameter has the used value, pressing the pus button for longer than 5 sec sends a Scene object with a value of between 128 and 159 [(Scene no.-1) + 128] to the bus.

Construction of the 1-octet scene object:

Bit no.							
7	6	5	4	3	2	1	0
Store	X	Scene number (0 means Scene 1)					

X = Not significant



Screen 11

Designation	Description	Values
Scene number	This parameter defines the scene number to be activated.	Scene 1 to Scene 32. Default value: Scene 1.
Emission time delay	This parameter defines if scene activation must be immediate or time-delayed*	Immediate emission, 1 s, 2 s, 3 s, 5 s, 10 s, 15 s, 20 s, 30 s, 40 s, 50 s, 1 min, 1 min 30 s, 2 min, 2 min 30 s, 3 min, 3 min 30 s, 4 min, 4 min 30 s, 5 min. Default value: Immediate emission.
Scene memorisation by long key press**	This parameter authorizes or not storage of a scene via a long push button press.	Used, Not used Default value: Used

*The scene storing command is not concerned by this parameter.

**Scene learning is confirmed by the push button indicator flashing (1 second).

- Value function parameters

The Value function sends a value in %, a temperature, a brightness level, an illumination value or a 2-bit absolute value. The Value function is only available for an independent push button. Pressing the push button sends the Value object to the bus; the object is in 1-byte or 2-byte format, depending on the value type to be sent.

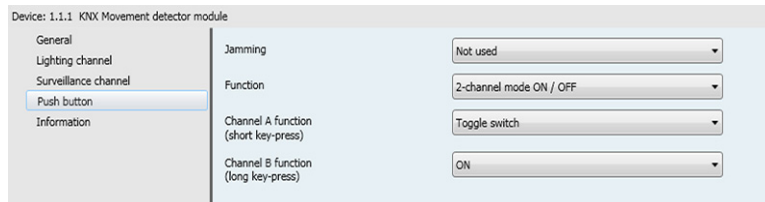


Screen 12

Designation	Description	Values
Value type	This parameter defines the type of value sent.	Value in %, Temperature, Brightness value, Luminosity level. Default value: Value in %.
Value	This parameter defines the value to be sent to the bus.	<p>Value in % 0% to 100% in 1% steps. Default value: 0%.</p> <p>Temperature 0°C to 40°C in 0.5°C steps. Default value: 20°C.</p> <p>Brightness value 0 lux to 1000 lux in 50 lux steps. Default value: 300 lux.</p> <p>Luminosity level 0% to 100% in 1% steps. Default value: 0%.</p> <p>Valeur 0 to 65535 in 1 steps. Default value: 0.</p>

- 2 channels mode ON/OFF function parameters

The 2-channel ON/OFF mode is used to perform two different functions using the same push button. The distinction between the two functions is made by a short key-press or a long key-press (the length of the long key press can be set on the General Parameters screen, via the Length of long key-press for 2-channel mode parameter). Only the ON, OFF and toggle switch functions are available in 2-channel mode. A short key-press sends ON or OFF commands to the bus via the Channel A ON/OFF object. A long key-press sends ON or OFF commands to the bus via the Channel B ON/OFF object.



Screen 13

Designation	Description	Values
Channel A function (short key-press)	This parameter defines the command sent by a short key-press.	ON, OFF, Toggle switch. Default value: Toggle switch.
Channel B function (long key-press)	This parameter defines the command sent by a long key-press.	ON, OFF, Toggle switch. Default value: ON.

2.3 Lighting channel parameters

The Lighting channel is only available when the Master/Slave parameter is set to Master (See "2.2 General parameters" Page: 5).

Sending the Lighting channel on the bus is authorized or inhibited by the Timer/toggle change over object. If the brightness measurement is locked (an ON command on the Brightness probe locking object), the motion detector will send the command telegrams on the bus without taking into account the ambient brightness. The Remote control object allows controlling the Lighting channel on the bus without taking the Presence into account. An ON command on the Remote control object switches the motion detector in the Presence mode. An OFF command on the Remote control object switches the motion detector in the Absence mode.

2.3.1 Functions of the Lighting channel

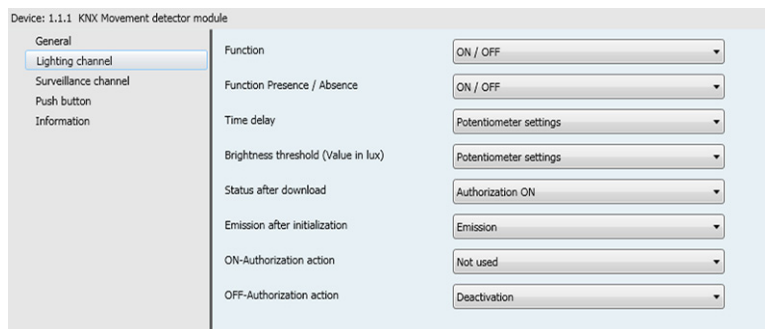
When detecting a motion, the command for Presence is sent on the bus, taking into account the ambient brightness. If there is no more motion detection, the command for Absence is sent on the bus after the switch OFF delay has elapsed (if it was set). The Function parameter allows selecting the commands or values that are to be sent on the bus in case of Presence or Absence.

2.3.1.1 ON/OFF function

The ON/OFF function allows setting a switching output (lighting circuit) to one (ON or OFF) value in case of Presence and to another value in case of Absence, these values being preset in the parameters.

The ON/OFF function sends commands on the bus via the ON/OFF object.

Description: According to the setting of the parameters, when switching from Absence to Presence, an ON or an OFF command is sent on the bus via the ON/OFF object. When the Switch OFF delay has elapsed, either no command, or an OFF or ON command is sent on the bus (See "2.3.2 Switch OFF delay" Page: 22). Motion detection and ambient brightness are taken into account for presence detection (See "2.3.3 Brightness threshold" Page: 23).



Screen 14

Designation	Description	Values
Function Presence / Absence	This parameter defines the command to be sent upon a Presence or Absence detection. The command for Absence will be sent after the Switch OFF delay has elapsed.	ON, OFF, OFF/ON, ON/OFF. Default value: ON/OFF.

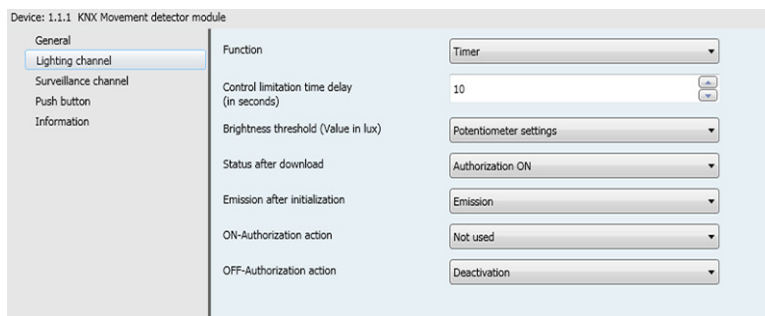
2.3.1.2 Timer function

The Timer function allows switching ON a switching output (lighting circuit) for a time adjustable in the switching output in case of a Presence.

The Timer function sends commands via the Timer object.

Description: Upon Presence detection, the motion detector sends an ON command on the bus via the Timer object. Then, sending of commands is locked for the time set in the Detection inhibition time parameter. This means that, even in the case of Presence detection, no commands will be sent during this time. When this time has elapsed, the motion detector will send again an ON command on the bus in the case of Presence detection, and the locking time will start again. Motion detection and ambient brightness are taken into account for presence detection (See "2.3.3 Brightness threshold" Page: 23).

Caution: When using the Timer function, the locking time for output commands should imperatively be set >10s. Several ON commands on the timer object within 10s will increase the switch-ON time of our switching outputs.



Screen 15

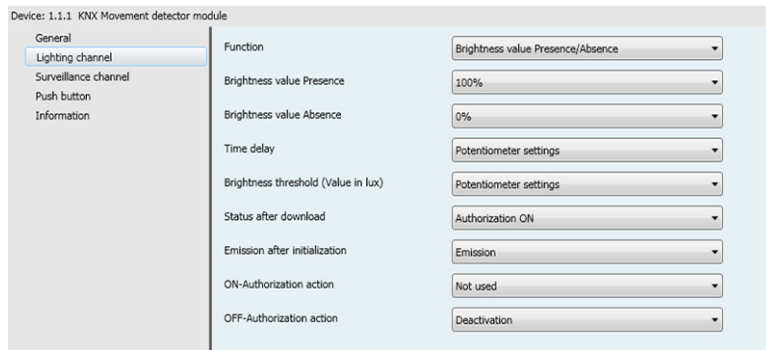
Designation	Description	Values
Control limitation time delay (in seconds)	This parameter sets the minimum possible time between two telegrams from the Timing object.	From 1 s to 30 s by steps of 1. Default value: 10 s.

2.3.1.3 Illumination value and Illumination value Presence/Absence functions

The Illumination value (presence) function sets a dimming output to a parameterizable value in the case of a presence.
The Illumination value Presence/Absence function sets a dimming output to a parameterizable value in the case of a presence and to another parameterizable value in the case of an absence.

The Illumination value and Illumination value Presence/Absence sent commands on the bus via the Brightness value object.

Description: When switching from Absence to Presence, an illumination value is sent on the bus via the Illumination value object. For the Illumination value Presence/Absence function, the illumination value sent after the Switch OFF delay has elapsed can be set in the parameters (See "2.3.2 Switch OFF delay" Page: 22). Motion detection and ambient brightness are taken into account for presence detection (See "2.3.3 Brightness threshold" Page: 23).



Screen 16

Designation	Description	Values
Brightness value Presence	This parameter defines the illumination value in Presence mode.	0% to 100% in 1% steps. Default value: 100%.
Brightness value Absence*	This parameter defines the illumination value in Absence mode (after the Switch OFF delay has elapsed).	0% to 100% in 1% steps. Default value: 0 %.

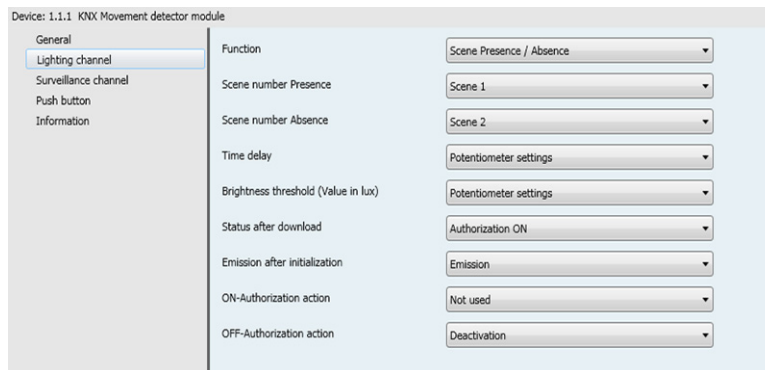
*This parameter is only visible when the Function has the value Illumination value Presence/Absence.

2.3.1.4 Scene and Scene Presence/Absence functions

The Scene Presence function allows calling a scene in the case of a presence (e. g. various light circuits ON, others dimmed, heating ON). The Scene Presence/Absence function allows calling one scene in the case of a presence and another scene in the case of an absence.

The Scene Absence and Scene Presence/Absence functions send, in the case of presence and absence, commands via the Scene object.

Description: When switching from Absence to Presence, a scene call is sent on the bus via the Scene object. With the Scene Presence/Absence function, when the Switch OFF delay has elapsed, another scene call is sent on the bus (See "2.3.2 Switch OFF delay" Page: 22). Motion detection and ambient brightness are taken into account for presence detection (See "2.3.3 Brightness threshold" Page: 23).



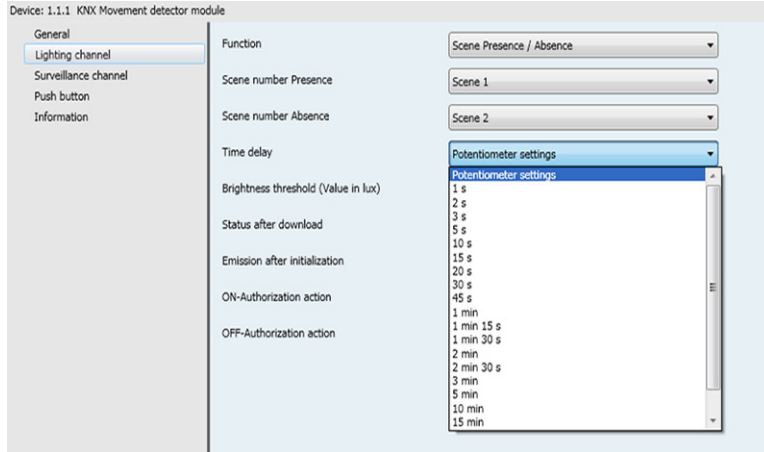
Screen 17

Designation	Description	Values
Scene number Presence	This parameter defines the scene in Presence mode.	Scene 1 to Scene 32. Default value: Scene 1.
Scene number Absence*	This parameter defines the scene in Absence mode.	Scene 1 to Scene 32. Default value: Scene 2.

*This parameter is only visible when the Function has the value Illumination value Presence/Absence.

2.3.2 Switch OFF delay

The Switch OFF delay is activated while switching from Absence (no movement) to Presence (movement). On the Lighting channel, the ambient brightness is also taken into account (See "2.3.3 Brightness threshold" Page: 23). The motion detector switches back to Absence mode (no movement) at the end of the delay. According to the function set for this channel, a telegram is sent on the bus in case of Presence and/or Absence. The time can be set by the ETS or via the setting potentiometer on the device.



Screen 18

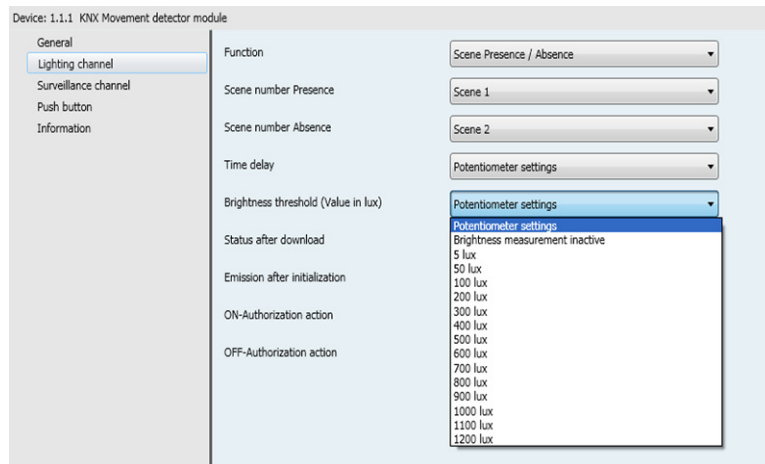
Designation	Description	Values
Time delay	This parameter defines the duration of the switch OFF delay.	Potentiometer settings, 1 s, 2 s, 3 s, 5 s, 10 s, 15 s, 20 s, 30 s, 45 s, 1 min, 1 min 15 s, 1 min 30 s, 2 min, 2 min 30 s, 3 min, 5 min, 10 min, 15 min, 20 min, 30 min. Default value: Potentiometer settings.

2.3.3 Brightness threshold

The brightness threshold defines as from which brightness (darkness) a motion detection will lead to the Presence status on the Lighting channel.

The Brightness probe locking object allows locking the brightness measurement. In this case, the Presence status does not take any more the ambient brightness into account.

The brightness threshold can be set by the ETS or via the setting potentiometer on the device.



Screen 19

Designation	Description	Values
Brightness threshold (Value in Lux)	This parameter defines a brightness threshold as from which a motion does not lead any more to a switching command.	Potentiometer settings, Brightness measurement inactive, 5 lux, 50 lux, 100 lux, 200 lux, 300 lux, 400 lux, 500 lux, 600 lux, 700 lux, 800 lux, 900 lux, 1000 lux, 1100 lux, 1200 lux. Default value: Potentiometer settings.

2.3.4 Status after downloading or bus return-Lighting channel

The Status after downloading or Emission after initialization define the starting behaviour of the motion detector for the Lighting channel.

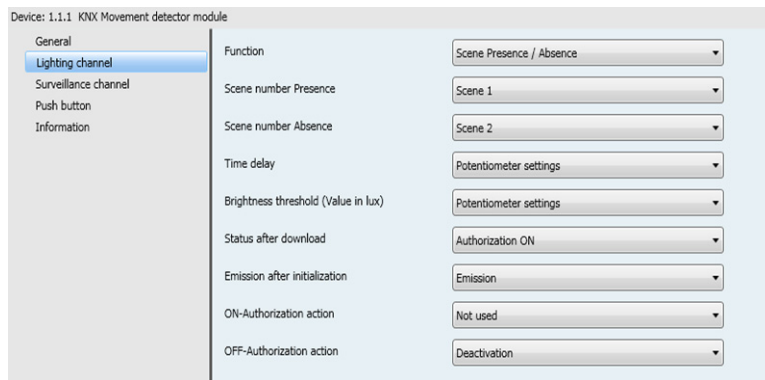
Status after downloading:

If the status of the Lighting channel after downloading is Authorization ON (authorized), telegrams are sent on the bus according to motion and ambient brightness.

If the status of the motion detector after downloading is Authorization OFF (inhibited), the motion detector will not send any telegrams on the bus according to motion and ambient brightness until the Lighting channel Timer/toggle change over object authorizes this again.

Emission after initialization:

The Mode when power ON parameter defines whether the motion detector will send the current status (according to the function set: ON/OFF, Scene number or Illumination value) via the Lighting channel after power restoration or not. Sending the status can e. g. be helpful when synchronizing a visualization.



Screen 20

Designation	Description	Values
Status after download	This parameter defines the authorization status after an ETS downloading.	Authorization OFF, Authorization ON. Default value: Authorization ON.
Emission after initialization	This parameter defines whether the current status must be sent or not after a bus failure.	Not used, Emission. Default value: Emission.

2.3.5 ON and OFF Authorization actions-Lighting channel

The ON Authorization action and OFF Authorization action parameters define the behaviour of the motion detector on the Lighting channel after the authorization (ON authorization) and after the inhibition (OFF authorization).

Activate:

When Activation is selected, the motion detector sends, after having received the authorization command (authorization or inhibition) the command for motion (Presence) on the bus.

The sent command depends on the function set.

Examples:

1. The selected function is ON/OFF and the command for Presence/Absence is ON/OFF.
In this case, the motion detector sends an ON command on the bus via the ON/OFF object after having received the authorization command (Timer/toggle change over object).
2. The selected function is Scene Presence/Absence and the scene number for Presence is scene 1.
In this case, the motion detector sends the call for scene 1 on the bus via the Scene object after having received the authorization command (Timer/toggle change over object).

Deactivation:

When Deactivation is selected, the motion detector sends, after having received the authorization command (authorization or inhibition) the command for no motion (Absence) on the bus.

The sent command depends on the function set.

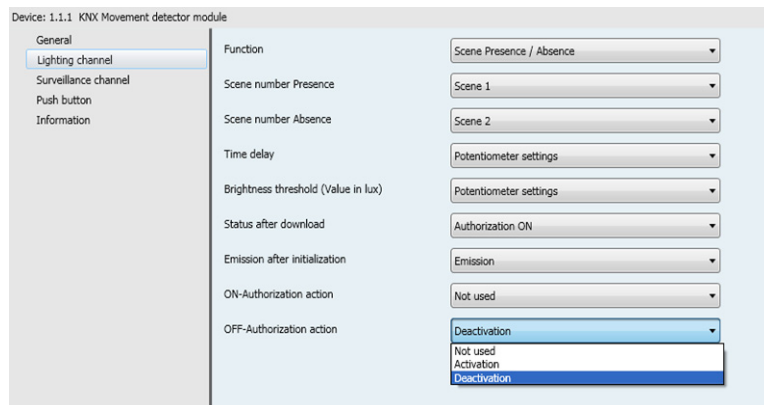
Examples:

1. The selected function is ON/OFF and the command for Presence/Absence is ON/OFF.
In this case, the motion detector sends an OFF command on the bus via the ON/OFF object after having received the authorization command (Timer/toggle change over object).
2. The selected function is Scene Presence/Absence and the scene number for Presence is scene 2.
In this case, the motion detector sends the call for scene 2 on the bus via the Scene object after having received the authorization command (Timer/toggle change over object).

Not used:

If the parameter is set to Not used, after having received the authorization command (authorization or inhibition), neither the command for motion (Presence), neither the command for no motion (Absence) on the bus.

Parameter Setting screen:



Screen 21

Designation	Description	Values
ON-Authorization action	This parameter defines the behaviour of the motion detector after having received the Authorization ON (authorization) command.	Not used, Activate, Deactivation. Default value: No used.
OFF-Authorization action	This parameter defines the behaviour of the motion detector after having received the Authorization OFF (inhibition) command.	Not used, Activate, Deactivation. Default value: Deactivation.

2.4 Surveillance channel parameters

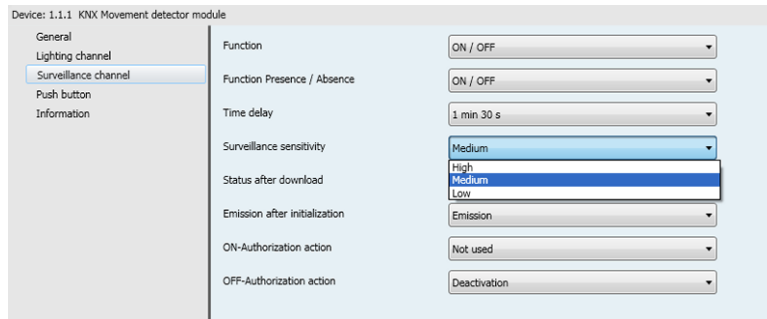
Depending on the detection of a motion (Presence) and on the switch OFF delay, the Surveillance channel sends commands on the bus, according to the selected function (ON/OFF, Timer, Illumination value, Illumination value Presence/Absence, Scene, Scene Presence/Absence). The emission of commands on the bus by the Surveillance channel depends on motion detection. Unlike the Lighting channel, the ambient brightness is not taken into account.

The emission by the Surveillance channel on the bus is authorized or inhibited by the Timer/toggle change over object.

2.4.1 Functions of the Surveillance channel

The same functions can be set for the Surveillance channel as for the Lighting channel. Refer to the explanations 2.3.1.1 to 2.3.1.4.

2.4.2 Surveillance sensitivity-Surveillance channel



Screen 22

Designation	Description	Values
Surveillance sensitivity	<p>High: A motion must be detected to detect a presence.</p> <p>Medium: At least one motion must be detected all 2 s over a period of time of 6 s to detect a presence.</p> <p>Low: At least one motion must be detected all 3 s over a period of time of 9 s to detect a presence.</p>	<p>High, Medium, Low.</p> <p>Default value: Medium.</p>

2.4.3 Status after downloading or bus return-Surveillance channel

The Status after downloading or Emission after initialization define the starting behaviour of the motion detector for the Lighting channel.

Status after downloading:

If the status of the Surveillance channel after downloading is Authorization ON (authorized), telegrams are sent on the bus according to motion.
If the status of the motion detector after downloading is Authorization OFF (inhibited), the motion detector will not send any telegrams on the bus according to motion until the Surveillance channel Timer/toggle change over object authorizes this again.

Emission after initialization:

The Mode when power ON parameter defines whether the motion detector will send the current status (according to the function set: ON/OFF, Scene number or Brightness value) via the Surveillance channel after power restoration or not. Sending the status can e. g. be helpful when synchronizing a visualization.

The operating mode corresponds to that of the Lighting channel (See "2.3.4 Status after downloading or bus return-Lighting channel" Page: 24).

2.4.4 ON and OFF Authorization actions-Surveillance channel

The ON Authorization action and OFF Authorization action parameters define the behaviour of the motion detector on the Surveillance channel after the authorization (ON authorization) and after the inhibition (OFF authorization) of the motion detector.

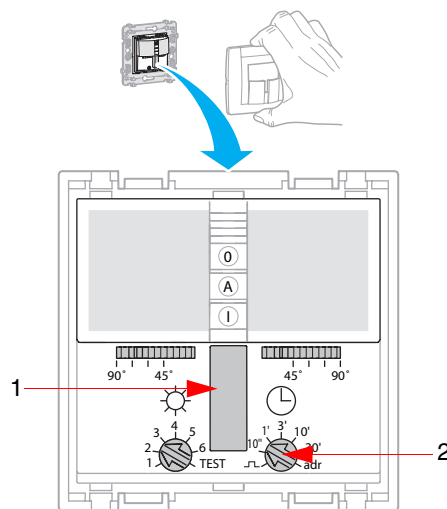
The operating mode corresponds to that of the Lighting channel (See "2.3.5 ON and OFF Authorization actions-Lighting channel" Page : 25).

3. Configuration and parameterising

Max. number of group addresses	252
Max. number of links	254
Objects	30

4. Physical addressing

To perform physical addressing or to check for the presence of the bus:



Set potentiometer 2 to the "adr" position and press button 1, the 3 indicators will light up. To quit this status, perform a ETS download and reset potentiometer 2 to another value.

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