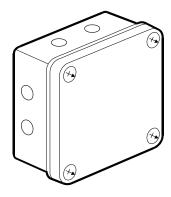


KNX/RF unidirectional gateway

Cat. No(s): 0 488 77



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1. USE

The KNX/RD gateway Cat. No. 0 488 77 is a unidirectional gateway between radio devices (0 784 61, 0 883 09) and the KNX BUS. It transfers commands and measured values from wireless sensors to the KNX BUS, for example, to control KNX actuators. The KNX/RD gateway Cat. No. 0 488 77 is divided into 16 channels for control and 4 channels for motion sensors. Each channel can be assigned to one of the following functions:

- Switching
- Dimming
- Shutters control
- Scenes control

The device and channels are configured using the ETS software via the KNX-BUS. The links between the RADIO devices and the RADIO/KNX interface are configured via the gateway push-buttons and display.

2. TECHNICAL CHARACTERISTICS

2.1 Climatic characteristics

- Ambient operating temperature: -5 to +45°C
- Storage temperature: -25 to +70°C
- Relative humidity (non-condensing): 5 to 93%

2.2 Electrical characteristics

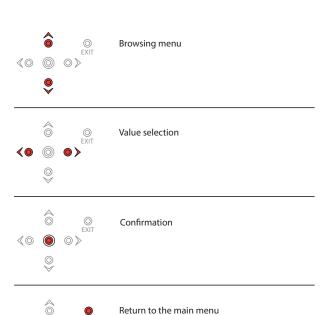
- KNX BUS current consumption: 12 mA
- KNX BUS power supply: 29 V=

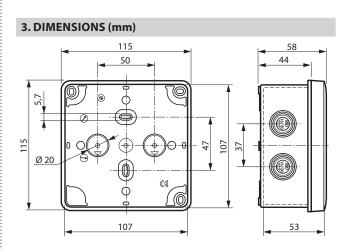
2.3 Mechanical characteristics

- Protection class: IP 20
- Weight: 90 g
- KNX connection via terminal block

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2.4 Description KNX connector programming LED Radio programming keypad KNX connector programming button



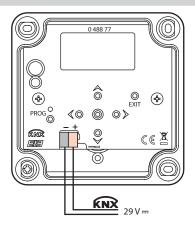


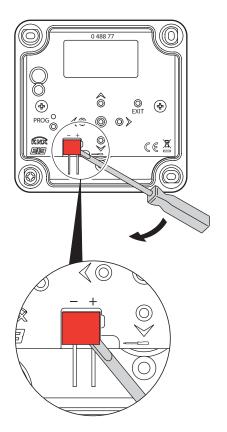
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4. WIRING



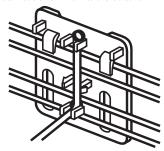


5. ACCESSORIES

- ISO cable gland (RAL 7001 polyamide)
- IP 68 protection
- Resistance to incandescent wire 850°C 30 s
- ISO 16: 0 980 01
- ISO 20: 0 980 03



- Fixing plate Cat. No. 0 919 41 on cable duct for wire 05 mm max.

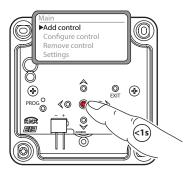


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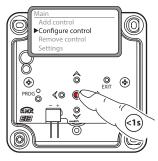
6. OPERATION

6.1 INSTALLING A TRANSMITTER



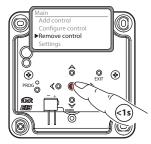
- Find "Add control" in the menu, confirm. "Awaiting control..." is displayed.
- Activate the control for the transmitter to be installed.
- The transmitter is detected, and is displayed on the screen along with "Configure control". If it is the right sensor, confirm.
- Configure the different values (1 to 16) for all 4 buttons using the navigation buttons and confirmation button.

6.2 CONFIGURING A TRANSMITTER



- Find "Configure control" in the menu, confirm. The list of batteryless sensors and installed sensors is displayed.
- Select the transmitter to be configured from the list using the ID marked on the product, confirm.
- Configure the different values (1 to 16) for all 4 buttons using the navigation buttons and confirmation button.

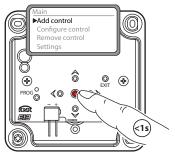
6.3 REMOVING A TRANSMITTER



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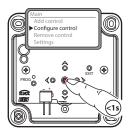
- Find "Remove control" in the menu, confirm. The list of batteryless sensors and installed sensors is displayed.
- Select the transmitter to be removed from the list using the ID marked on the product, confirm.
- Select "Yes", then confirm using the navigation buttons and confirmation button.

6.4 INSTALLING A SENSOR



- Find "Add control" in the menu, confirm. "Waiting control..." is
- Briefly press the NETW button on the sensor to be installed, its orange LED (NETW) comes on with a steady light and then flashes quickly.
- The sensor is detected, and is displayed on the screen along with "Configure control". If it is the right sensor, confirm, the sensor's orange LED (NETW) goes out.
- Configure the different values (1 to 4) for all 4 buttons using the navigation buttons and confirmation button.

6.5 CONFIGURING A SENSOR



- Find "Configure control" in the menu, confirm, the list of batteryless sensors and installed sensors is displayed.
- Select the sensor to be configured from the list using the ID marked on the product, confirm.
- Configure the different values (1 to 4) for all 4 buttons using the navigation buttons and confirmation button.

6.6 REMOVING A SENSOR

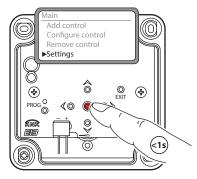


- Find "Remove control" in the menu, confirm. The list of batteryless transmitters and installed sensors is displayed.
- Select the sensor to be removed from the list using the ID marked on the product, confirm.
- Select "Yes", then confirm using the navigation buttons and confirmation button.

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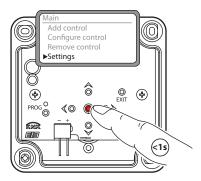
7. OTHER OPTIONS

7.1 RADIO DIAGNOSTICS



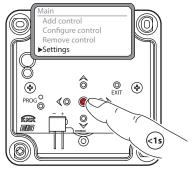
- Find "Settings" in the menu, confirm.
- Select "Radio diagnosis", confirm.
- The software version, PAN ID and channel are displayed, confirm.
- Briefly press the button on the transmitter to be controlled.
- Check on the screen it is the right transmitter by means of its ID.
- Press the "Exit" button to exit the programme.

7.2 KNX DIAGNOSTICS



- Find "Settings" in the menu, confirm.
- Select "KNX diagnosis", confirm.
- Select the transmitter or sensor you wish to check, confirm.
- Check on the ETS/Diagnosis/Bus monitoring screen that the requested action is happening.
- Press the "Exit" button to exit the programme.

7.3 FORMING THE NETWORK ON THE BEST RADIO CHANNEL



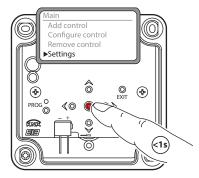
- Find "Settings" in the menu, confirm.

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- Find "Advanced setting" in the menu, confirm.

- Find "Form best radio network" in the menu, confirm.
- "Confirm" is displayed, confirm.
- "Continue" is displayed, confirm.

7.4 RETURN TO FACTORY SETTINGS



- Find "Settings" in the menu, confirm.
- Find "Advanced setting" in the menu, confirm.
- Find "Return to factory setting" in the menu, confirm.
- "Confirm" is displayed, confirm.
- "Continue" is displayed, confirm.

8. STANDARDS AND APPROVALS

Electrical safety

The products satisfy the provisions of:

Directive 1999/5/EC issued by the European Parliament and Council of 9th March 1999

On condition that they are used in the manner intended and/ or in accordance with current installation standards and/or the manufacturer's recommendations.

Channel availability depends on national regulations. The wireless LAN system administrator must choose the correct country of use. The channels are then automatically configured to comply with the specified country's regulations.

These provisions are satisfied for directive 1999/5/EC by conformity to the following standards:

EN 301 489

EN 300 328

EN 504 91

KNX certificate CE

9. MAINTENANCE

Clean the surface with a cloth.

Do not use acetone, tar-removing cleaning agents or trichloroethylene. **Caution:** Always test before using other special cleaning products.

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10. DESCRIPTION OF COMMUNICATION OBJECTS

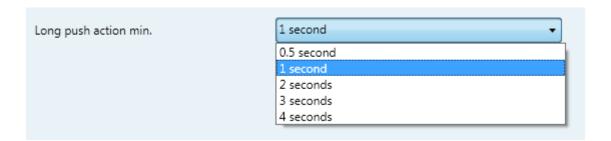
■ 10.1 General configuration

The KNX controls can be configured via ETS software (versions ETS \geq 3).

■ General settings

This screen contains the main command parameters, common to all the channels:

Long push settings



■ 10.2 Long push configuration

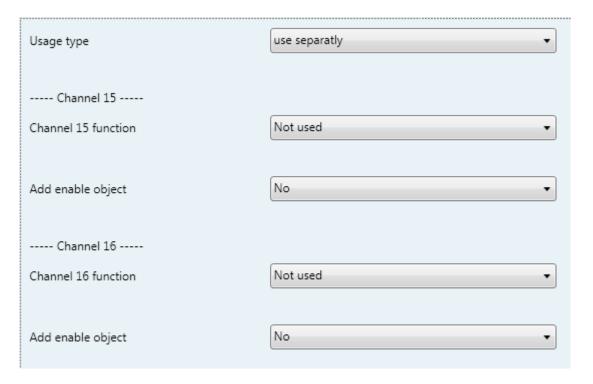
This parameter determines the minimum time for detecting a long push action.

Long push action min.	0.5 second			
	1 second	Long push action min.	0.5 second	•
	2 seconds			
	3 seconds			
	4 seconds			

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■ 10.3 Channel configuration (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16)

This screen allows users to choose how to manage the channels and to configure their settings.



11.3.1 Use separately

Channel X function

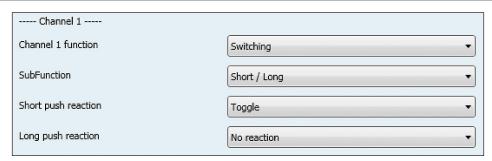
Not used

Channel is not used, no accessible communication objects

11.3.1.1 Switching

No.	Object name	Function	Size	Flags
2 (9,16,23,30,37,44,51,58,65, 72,79,86,93,100,107)	Channel 1 (2 ->16)	Switching	1.001 DP_Switch (1 bit)	CWT
Switching telegrams are sent via the group address linked with this object.				
3 (10,17,24,31,38,45,52,59,6 6,73,80,87,94,101,108)	Channel 1 (2 ->16)	Switching Status	1.001 DP_Switch (1 bit)	CW

Switching states are received via the group address linked with this object.



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11.3.1.1 Switching (continued)

SubFunction

Short/long

Parameters	Setting
Short push reaction	No reaction
	On
	On Off
	Toggle

The setting entered here defines which switching value is written into the storage cell of the communication object and sent after a short press on the push-button related to the channel.

"No reaction": A short push does not change the object value and also does not send a telegram.

"On": After a short push, the switching value "ON" (binary value "1") is transferred into the communication object and sent.

"Off": After a short push, the switching value "OFF" (binary value "0") is transferred into the communication object and sent.

"Toggle": After a short push, the switching value stored in the communication object is inverted and the new value is sent.

Long push reaction

No reaction

On

Off

Toggle

The setting entered here defines which switching value is written into the storage cell of the communication object and sent after a long press on the push-button related to the channel.

"No reaction": A long push does not change the object value and also does not send a telegram.

"On": After a long push, the switching value "ON" (binary value "1") is transferred into the communication object and sent.

"Off": After a long push, the switching value "OFF" (binary value "0") is transferred into the communication object and sent.

"Toggle": After a long push, the switching value stored in the communication object is inverted and the new value is sent.

Push/Release

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Parameters	Setting
Push reaction	No reaction
	On
	On Off
	Toggle

The setting entered here defines which switching value is written into the storage cell of the communication object and sent after pressing the push-button related to the channel.

"No reaction": Pressing a push-button does not change the object value and also does not send a telegram.

"On": On pressing a push-button, the switching value "ON" (binary value "1") is transferred into the communication object and sent.

"Off": On pressing a push-button, the switching value "OFF" (binary value "0") is transferred into the communication object and sent.

"Toggle": On pressing a push-button, the switching value stored in the communication object is inverted and the new value is sent.

99 -	
Release reaction	No reaction
	On
	Off
	Toggle

The setting entered here defines which switching value is written into the storage cell of the communication object and sent after releasing the push-button related to the channel.

"No reaction": Releasing the push-button does not change the object value and also does not send a telegram.

"On": On releasing a push-button, the switching value "ON" (binary value "1") is transferred into the communication object and sent.

"Off": On releasing a push-button, the switching value "OFF" (binary value "0") is transferred into the communication object and sent.

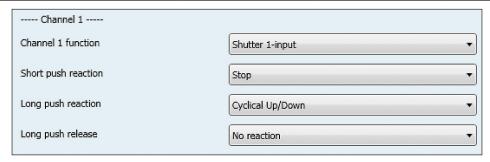
"Toggle": On releasing a push-button, the switching value stored in the communication object is inverted and the new value is sent.

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11.3.1.2 Shutter 1-input

No.	Object name	Function	Size	Flags
2 (9,16,23,30,37,44,51,58,65, 72,79,86,93,100,107)	Channel 1 (2 ->16)	Shutter Up/Down	1.008 DP_UpDown (1 bit)	CWT
The Up/Down movement commands are sent via the address linked with this object in order to raise/lower the solar protection.				
8 (15,22,29,36,43,50,57,64,7 1,78,85,92,99,106,113)	Channel 1 (2 ->16)	Shutter Stop - slats	1.009 DP_OpenClose (1 bit)	CWT
The "STOP" or "Slats OPEN/CLOSE" command is sent via the group address linked with this object.				
7 (14,21,28,35,42,49,56,63,7 0,77,84,91,98,105,112)	Channel 1 (2 ->16)	Shutter Status	5.001 DP_Scaling (1 byte)	CW

The shutter status telegrams are received from the shutter actuator via the group address linked with this object.



Parameters	Setting
Short push reaction	No reaction
	Cyclical Up/Down + stop
	Up + stop
	Down + stop
	Cyclical Up/Down
	Stop
	Open slats
	Close slats
	Up
	Down

The setting entered here defines which movement command is written into the storage cell of the communication object and sent after a short press on the push-button related to the channel.

"No reaction": A short push does not change the object value and also does not send a telegram.

Cyclical Up/Down + stop: Each short push transfers the following sequence of command values into the communication object: Up, Stop, Down, Stop, Up, Stop, Down, Stop, etc.

Up + stop: Each short push transfers the following sequence of command values into the communication object: Up, Stop, Up, Stop, etc.

Down + stop: Each short push transfers the following sequence of command values into the communication object: Down, Stop, Down, Stop, etc.

Cyclical Up/Down: Each short push transfers the following sequence of command values into the communication object: Up, Down, Up, Down, etc.

Stop: A short push transfers the stop command value ("1" or "0") into the communication object.

Open slats: A short push transfers the stop (open slats) command value ("0") into the communication object.

Close slats: A short push transfers the stop (close slats) command value ("1") into the communication object.

Up: A short push transfers the Up command (value "0") into the communication object.

Down: A short push transfers the Down command (value "1") into the communication object.

Down: A short push transfers the Down Command (value 1) into the Com	munication object.
Long push reaction	No reaction
	Up
	Down
	Cyclical Up/Down
	Stop
	Cyclical Open/Close slats
	Open slats
	Close slats

The setting entered here defines which movement command is written into the storage cell of the communication object and sent after a long press on the push-button related to the channel.

"No reaction": A long push does not change the object value and also does not send a telegram.

Up: A long push sends the Up command (value "0").

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Down: A long push sends the Down command (value "1").

Cyclical Up/Down: Each long push sends the following sequence of commands: Up, Down, Up, Down, etc.

Stop: A long push sends the stop command (value "1" or "0").

 $Cyclical\ Open/Close\ slats;\ Each\ long\ push\ sends\ the\ following\ sequence\ of\ commands;\ Open\ slats,\ Close\ slats,\ Close\ slats.$

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11.3.1.2 Shutter 1-input (continued)

Parameters	Setting	
Open slats: A long push sends the (open slats) command (value "0") Close slats: A long push sends the (close slats) command (value "1")		
Long push release	No reaction Stop	

The setting entered here defines which value is written into the storage cell of the communication object and sent when releasing the push-button related to the input after a long push.

"No reaction": A release does not change the object value and also does not lead to the sending of a telegram.

Stop: the stop command (value "1" or "0") is transferred into the communication object and sent.

11.3.1.3 8-bit scene control

This function is used to recall/save up to 64 scenes.

A short push recalls the scene and a special long push (10 s) allows users to save a scene; for the defined scene number all the states of the actuators involved are saved.

No.	Object name	Function	Size	Flags
5 (12,19,26,33,40,47,54,61,6	Channel 1 (2 -> 16)	8-bit scene	17.001 DP_SceneNumber	СТ
8,75,82,89,96,103,110)			(1 byte)	

The telegrams to recall the scene with the configured number (1 -> 64) are sent via the group address linked with this object.



Parameters	Setting
Scene num. on short push	0 -> 64

This parameters determines which scene (1 -> 64) has to be recalled on rising edge.

If value "0" is set, no scene is going to be recalled

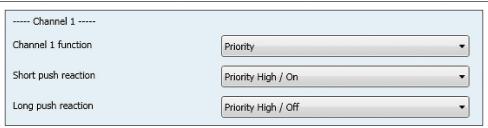
11.3.1.4 Priority

This function is used to send lock/unlock commands.

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No.	Object name	Function	Size	Flags
5 (12,19,26,33,40,47,54,61,6	Channel 1 (2 -> 16)	Override 2 bits	2.001 DP_Switch_Control	СТ
8,75,82,89,96,103,110)			(2 bits)	

Telegrams with the override commands are sent via the address linked with this object.



Parameters	Setting
Short push reaction	Priority High/On (Lock On)
	Priority High/Off (Lock Off)
	Priority Low/On (Unlock On)
	Priority Low/Off (Unlock Off)
This is where the desired value to be sent upon a sho	rt press of the push-button related to the channel is chosen.
Long push reaction	Priority High/On
	Priority High/Off
	Priority Low/On
	Priority Low/Off

This is where the desired value to be sent upon a long press of the push-button related to the channel is chosen.

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11.3.1.4 Priority (continued)

Value	Behaviour
00b	Low Priority, Off-State
01b	Low Priority, On-State
10b	High Priority, Off-State
11b	High Priority, On-State

11.3.1.5 Counting

This function is used to send incremental values on each press.

No.	Object name	Function	Size	Flags	
5 (12,19,26,33,40,47,54,61,6 8,75,82,89,96,103,110)	Channel 1 (2 -> 16)	Counting	17.001 DP_SceneNumber (1 byte)	СТ	
The telegrams to recall the scene with the configured number (1 -> 64) are sent via the group address linked with this object.					
3 (10,17,24,31,38,45,52,59,6 6,73,80,87,94,101,108)	Channel 1 (2 -> 16)	Reset Counter	1.015 DP_Reset (1 bit)	CW	
If a telegram linked with this object is received, then the counter value is reset to the minimum value set by the "minimum value" parameter.					

Channel 1 ---
Channel 1 function

Counting

Minimum value

Maximum value

255

Increment / Decrement

Add "Reset counter" Object

No

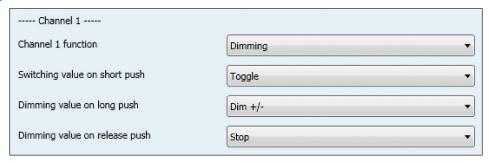
Parameters	Setting			
Minimum value	0 -> 255, 0			
The setting entered via this parameter defines the minimum counter value. If the "Increment/decrement" parameter is set to "decrement", the next counter value is set to the maximum.				
Maximum value	0 -> 255, 255			
The setting entered via this parameter defines the maximum counter value. If the "Increment/decrement" parameter is set to "increment", the next counter value is set to the minimum.				
Increment/Decrement Increment Decrement				
The setting entered here defines whether the counter value is to be increased by value 1 or decreased by the value 1 after each rising edge.				
Add "Reset counter" object Yes/No				
This parameter determines whether the "Reset Counter" ob	ings in completed on most			

11.3.1.6 Dimming

No.	Object name	Function	Size	Flags	
2 (9,16,23,30,37,44,51,58,65, 72,79,86,93,100,107)	Channel 1 (2 -> 16)	Switching	1.001 DP_Switch (1 bit)	CWT	
Switching telegrams are sent via the group address linked with this object.					
6 (13,20,27,34,41,48,55,62,6 9,76,83,90,97,104,111)	Channel 1 (2 -> 16)	Dimming	3.007 DP_Control_Dimming (4 bits)	СТ	
Dimming telegrams are sent via the group address linked with this object.					
7 (14,21,28,35,42,49,56,63,7 0,77,84,91,98,105,112)	Channel 1 (2 -> 16)	Value Status	5.001 DP_Scaling (1 byte)	CW	
Dimming status telegrams are received via the group address linked with this object.					

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11.3.1.6 Dimming (continued)



Parameters	Setting
Switching value on short push	No reaction
	On
	Off
	Toggle

The setting entered here defines which switching value is written into the storage cell of the communication object and sent after a short press on the push-button related to the channel.

[&]quot;Toggle": After a short push, the switching value stored in the communication object is inverted and the new value is sent.

Dimming value on long push	Dim +/-
	Dim +
	Dim –
	No reaction

The setting entered here defines which dimming value is written into the storage cell of the communication object and sent after a long press on the push-button related to the channel.

[&]quot;Dim -": After a long push, the dimming value "Decrease 100%" is transferred into the communication object and sent

	2111 17 area a long pash, the alliming value Bedease 100% is dansiened into the communication object and sent			
D	Dimming value on release push	No reaction		
		Stop		

The setting entered here defines which dimming value is written into the storage cell of the communication object and sent after a long push and release of the push-button related to the channel.

11.3.1.7 1 x 1 unsigned byte

No.	Object name	Function	Size	Flags
5 (12,19,26,33,40,47,54,61,6	Channel 1 (2 -> 16)	Unsigned Value	5.010 DP_Value_1_Ucount	CT
8,75,82,89,96,103,110)			(1 byte)	

Telegrams with the unsigned value are sent via the group address linked with this object.



Parameters	Setting
Byte value on short push (0 -> 255)	0 -> 255, 1

The setting entered here defines which unsigned 8-bit value is written into the storage cell of the communication object and sent after a rising edge in the signal status at the channel (input). The rising edge corresponds to a change in the signal status at the channel from logical "0" to "1".

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[&]quot;No reaction": A short push does not change the object value and also does not send a telegram.

[&]quot;On": After a short push, the switching value "ON" (binary value "1") is transferred into the communication object and sent.

[&]quot;Off": After a short push, the switching value "OFF" (binary value "0") is transferred into the communication object and sent.

[&]quot;No reaction": A long push does not change the object value and also does not send a telegram.

[&]quot;Dim+/-": After a long push, the dimming value stored in the communication object is inverted and the new value is sent.

[&]quot;Dim +" After a long push, the dimming value "Increase 100%" is transferred into the communication object and sent.

[&]quot;No reaction": A release after a long push does not change the object value and also does not send a telegram.

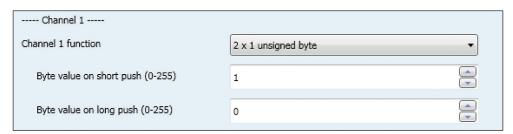
[&]quot;Stop": When the push-button is released after a long push, the dimming value "Stop" is transferred into the communication object and sent.

11.3.1.8 2 x 1 unsigned byte

Technical data sheet: S000088772EN-2

No.	Object name	Function	Size	Flags
5 (12,19,26,33,40,47,54,61,6	Channel 1 (2 -> 16)	Unsigned Value	5.010 DP_Value_1_Ucount	CT
8,75,82,89,96,103,110)			(1 byte)	

Telegrams with the unsigned value are sent via the group address linked with this object.



Parameters	Setting
Byte value on short push (0 -> 255)	0 -> 255, 1

The setting entered here defines which unsigned 8-bit value is written into the storage cell of the communication object and sent after a short press on the push-button attached to the channel.

Byte value on short push (0 -> 255) 0 -> 255,0

The setting entered here defines which unsigned 8-bit value is written into the storage cell of the communication object and sent after a long press on the push-button attached to the input.

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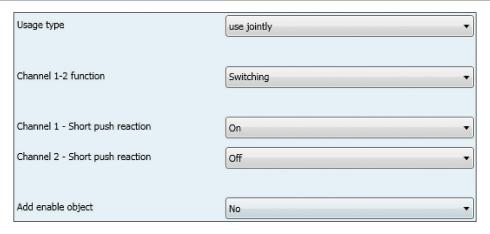
11.3.2 Use Jointly

11.3.2.1 Switching

No.	Object name	Object name Function		Flags
2 (16,30,44,58,72,86,100)	2 (16,30,44,58,72,86,100) Channel 1-2 (3-4 -> 15-16)		1.001 DP_Switch (1 bit)	CWT
Switching telegrams are sent via the group address linked with this object				
3 (17,31,45,59,73,87,101)	Channel 1-2 (3-4 -> 15-16)	Switching Status	1.001 DP_Switch (1 bit)	CW
Switching status are received via the group address linked with this object.				
4 (18,32,46,60,74,88,102)	Channel 1-2 (3-4 -> 15-16)	Enable	1.002 DP_Enable (1 bit)	CW

Enable telegrams are received via the group address linked with this object. They are used to lock (disable) or unlock (enable) the corresponding channels.

They are only visible if the "Add enable object" parameter value is set to "Yes".



Parameters	Setting
Channel Xn - Short push reaction	No reaction
	On
	Off
	Toggle

The setting entered here defines which switching value is written into the storage cell of the communication object and sent after a short press on the push-button related to the channel.

"No reaction": A short push does not change the object value and also does not lead to the sending of a telegram.

"On": After a short push, the switching value "ON" (binary value "1") is transferred into the communication object and sent.

"Off": After a short push, the switching value "OFF" (binary value "0") is transferred into the communication object and sent.

"Toggle": After a short push, the switching value stored in the communication object is inverted and the new value is sent.

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Channel Xn+1 - Short push reaction	No reaction
	On
	Off
	Toggle

The setting entered here defines which switching value is written into the storage cell of the communication object and sent after a short press on the push-button related to the channel.

"No reaction": A short push does not change the object value and also does not send a telegram.

"On": After a short push, the switching value "ON" (binary value "1") is transferred into the communication object and sent.

"Off": After a short push, the switching value "OFF" (binary value "0") is transferred into the communication object and sent.

"Toggle": After a short push, the switching value stored in the communication object is inverted and the new value is sent.

Add Enable object Yes/No

The parameter determines whether the channels (1-2 or 3-4) can be blocked via an additional Enable object or not. If the channels are blocked (Enable value = 1) the status changes of these channels are not transmitted.

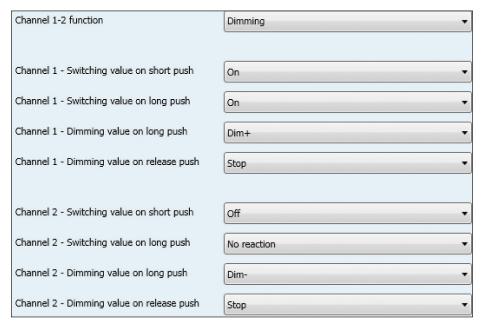
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11.3.2.2 Dimming

No.	Object name	Function	Size	Flags
2 (16,30,44,58,72,86,100)	Channel 1-2 (3-4 -> 15-16)	Switching	1.001 DP_Switch (1 bit)	CWT
Switching telegrams are sent via the group address linked with this object.				
6 (20,34,48,62,76,90,104)	Channel 1-2 (3-4 -> 15-16)	Dimming	3.007 DP_Control_Dimming (4 bits)	СТ
Dimming telegrams are sent via the group address linked with this object.				
7 (21,35,49,63,77,91,105)	Channel 1-2 (3-4 -> 15-16)	Value Status	5.001 DP_Scaling (1 byte)	CW
Dimming status telegrams are received from the dimming actuator via the group address linked with this object.				
4 (18,32,46,60,74,88,102)	Channel 1-2 (3-4 -> 15-16)	Enable	1.002 DP_Enable (1 bit)	CW

Enable telegrams are received via the group address linked with this object. They are used to lock (disable) or unlock (enable) the corresponding channels

They are only visible if the "Add enable object" parameter value is set to "Yes".



Parameters	Setting
Channel X - Switching value on short push	No reaction
	On
	Off
	Toggle

The setting entered here defines which switching value is written into the storage cell of the communication object and sent after a short press on the push-button related to the channel.

"No reaction": A short push does not change the object value and also does not send a telegram.

"On": After a short push, the switching value "ON" (binary value "1") is transferred into the communication object and sent.

"Off": After a short push, the switching value "OFF" (binary value "0") is transferred into the communication object and sent.

"Toggle": After a short push, the switching value stored in the communication object is inverted and the new value is sent.

Channel X - Switching value on long push

No reaction
On

The setting entered here defines which switching value is written into the storage cell of the communication object and sent after a long press on the push-button related to the channel.

"No reaction": A long push does not change the object value and also does not send a telegram.

"On": After a long push, the switching value "ON" (binary value "1") is transferred into the communication object and sent.

Channel X - Dimming value on long push	Dim +/-
	Dim +
	Dim –
	No reaction

The setting entered here defines which dimming value is written into the storage cell of the communication object and sent after a long press on the push-button related to the channel.

"No reaction": A long push does not change the object value and also does not send a telegram.

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"Dim+/-": After a long push, the dimming value stored in the communication object is inverted and the new value is sent.

"Dim +": After a short push, the dimming value "Increase 100%" is transferred into the communication object and sent.

"Dim -": After a short push, the dimming value "Decrease 100%" is transferred into the communication object and sent.

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11. DESCRIPTION OF COMMUNICATION OBJECTS (continued) 11.3.2.2 Dimming (continued) Setting Channel X - Dimming value on release push No reaction Stop The setting entered here defines which dimming value is written into the storage cell of the communication object and sent after a long press on the push-button related to the channel. "No reaction": A long push does not change the object value and also does not send a telegram. "Stop": When the push-button is released after a long push, the dimming value "Stop" is transferred into the communication object and sent. Channel X +1 - Switching value on short push No reaction Ω n Off Toggle The setting entered here defines which switching value is written into the storage cell of the communication object and sent after a short press on the push-button related to the channel. "No reaction": A short push does not change the object value and also does not send a telegram. "On": After a short push, the switching value "ON" (binary value "1") is transferred into the communication object and sent. "Off": After a short push, the switching value "OFF" (binary value "0") is transferred into the communication object and sent. "Toggle": After a short push, the switching value stored in the communication object is inverted and the new value is sent. Channel X +1 - Switching value on long push No reaction On The setting entered here defines which switching value is written into the storage cell of the communication object and sent after a long press on the push-button related to the channel. "No reaction": A long push does not change the object value and also does not lead to the sending of a telegram. "On": After a long push, the switching value "ON" (binary value "1") is transferred into the communication object and sent. Channel X +1 - Dimming value on long push Dim +/-Dim + Dim -No reaction The setting entered here defines which dimming value is written into the storage cell of the communication object and sent after a long press on the push-button related to the channel. "No reaction": A long push does not change the object value and also does not send a telegram. "Dim+/-": After a long push, the dimming value stored in the communication object is inverted and the new value is sent. "Dim +": After a short push, the dimming value "Increase 100%" is transferred into the communication object and sent. "Dim -": After a short push, the dimming value "Decrease 100%" is transferred into the communication object and sent. Channel X +1 - Dimming value on release push No reaction Stop The setting entered here defines which dimming value is written into the storage cell of the communication object and sent after a long press on the push-button related to the channel. "No reaction": A long push does not change the object value and also does not send a telegram. "Stop": When the push-button is released after a long push, the dimming value "Stop" is transferred into the communication object and sent.

Yes/No The parameter determines whether the channels can be blocked via an additional Enable object or not. If the channels are blocked (Enable value = 1)

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Add enable object

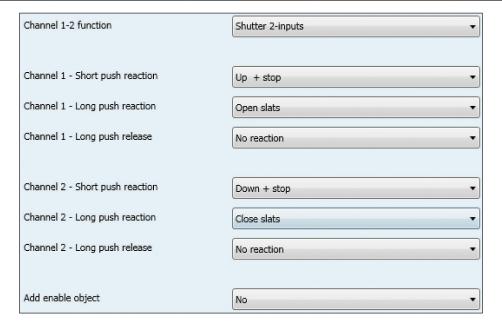
the status changes of these channels are not transmitted.

11.3.2.3 Shutter 2-inputs

No.	Object name	Function	Size	Flags
2 (16,30,44,58,72,86,100)	6,30,44,58,72,86,100) Channel 1-2 (3-4 -> 15-16)		1.008 DP_UpDown (1 bit)	CWT
The movement commands Up/Down are sent via the address linked with this object in order to raise/lower the solar protection.				
8 (22,36,50,64,78,92,106)	Channel 1-2 (3-4 -> 15-16)	Shutter Stop - slats	1.009 DP_OpenClose (1 bit)	CWT
The command "STOP" or "Slats OPEN/CLOSE" is sent via the group address linked with this object.				
7 (21,35,49,63,77,91,105)	Channel 1-2 (3-4 -> 15-16)	Shutter Status	5.001 DP_Scaling (1 byte)	CW
Shutter status telegrams are received from the shutter actuator via the group address linked with this object.				
4 (18,32,46,60,74,88,102)	Channel 1-2 (3-4 -> 15-16)	Enable	1.003 DP_Enable (1 bit)	CW

Enable telegrams are received via the group address linked with this object. They are used to lock (disable) or unlock (enable) the corresponding channels.

They are only visible if the "Add Enable object" parameter value is set to "Yes".



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11.3.2.3 Shutter 2-inputs (continued)

Parameters	Setting
Channel X - Short push reaction	No reaction
	Cyclical Up/Down + stop
	Up + stop
	Down + stop
	Cyclical Up/Down
	Stop
	Open slats
	Close slats
	Up
	Down

The setting entered here defines which movement command is written into the storage cell of the communication object and sent after a short press on the push-button related to the channel.

"No reaction": Actions do not change the object value and also do not send a telegram.

Cyclical Up/Down + stop: Each short push transfers the following sequence of command values into the communication object: Up, Stop, Down, Stop, Up, Stop, Down, Stop, etc.

Up + stop: Each short push transfers the following sequence of command values into the communication object: Up, Stop, Up, Stop, etc.

Down + stop: Each short push transfers the following sequence of command values into the communication object: Up, Stop, Up, Stop, etc.

Cyclical Up/Down: Each short push transfers the following sequence of command values into the communication object: Up, Down, Up, Down, etc.

Stop: A short push transfers the stop command value ("1" or "0") into the communication object.

Open slats: A short push transfers the stop (open slats) command value ("0") into the communication object.

Close slats: A short push transfers the stop (close slats) command value ("1") into the communication object.

Up: A short push transfers the Up command (value "0") into the communication object.

Down: A short push transfers the Down command (value "1") into the communication object.

Channel X - Long push reaction	No reaction
	Up
	Down
	Cyclical Up/Down
	Stop
	Cyclical Open/Close slats
	Open slats
	Close slats

The setting entered here defines which movement command is written into the storage cell of the communication object and sent after a long press on the push-button related to the channel.

"No reaction": Actions do not change the object value and also do not send a telegram.

Up: A long push transfers the Up command (value "0") into the communication object.

Down: A long push sends the Down command (value "1").

Cyclical Up/Down: Each short push sends the following sequence of commands: Up, Down, Up, Down, etc.

Stop: A long push sends the stop command (value "1" or "0").

Cyclical Open /Close slats: Each short push sends the following sequence of commands: Open slats, Close slats, Open slats, Close slats.

Open slats: A long push transfers the stop (open slats) command (value "0") into the communication object.

Close slats: A long push transfers the stop (close slats) command (value "1") into the communication object.

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Channel X - Long push release				No reaction
				Stop

The setting entered here defines which value is written into the storage cell of the communication object and sent after a long push release of the push-button related to the channel.

"No reaction": Actions do not change the object value and also do not send a telegram.

Stop: The stop command (value "1" or "0") is transferred into the communication object and sent.

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11.3.2.3 Shutter 2-inputs (continued)

Parameters	Setting
Channel X +1 - Short push reaction	No reaction
	Cyclical Up/Down + stop
	Up + stop
	Down + stop
	Cyclical Up/Down
	Stop
	Open slats
	Close slats
	Up
	Down

The setting entered here defines which movement command is written into the storage cell of the communication object and sent after a short press on the push-button related to the channel.

"No reaction": Actions do not change the object value and also do not send a telegram.

Cyclical Up/Down + stop: Each short push transfers the following sequence of command values into the communication object: Up, Stop, Down, Stop, Up, Stop, Down, Stop, etc.

Up + stop: Each short push transfers the following sequence of command values into the communication object: Up, Stop, Up, Stop, etc.

Down + stop: Each short push transfers the following sequence of command values into the communication object: Up, Stop, Up, Stop, etc.

Cyclical Up/Down: Each short push transfers the following sequence of command values into the communication object: Up, Down, Up, Down, etc.

Stop: A short push transfers the stop command value ("1" or "0") into the communication object.

Open slats: A short push transfers the stop (open slats) command value ("0") into the communication object.

Close slats: A short push transfers the stop (close slats) command value ("1") into the communication object.

Up: A short push transfers the Up command (value "0") into the communication object.

Down: A short push transfers the Down command (value "1") into the communication object.

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Channel X +1 - Long push reaction	No reaction	
	Up	
	Down	
	Cyclical Up/Down	
	Stop	
	Cyclical Open/Close slats	
	Open slats	
	Close slats	

The setting entered here defines which movement command is written into the storage cell of the communication object and sent after a long press on the push-button related to the channel.

"No reaction": Actions do not change the object value and also do not send a telegram.

Up: A long push transfers the Up command (value "0") into the communication object.

Down: A long push sends the Down command (value "1").

Cyclical Up/Down: Each short push sends the following sequence of commands: Up, Down, Up, Down, etc.

Stop: A long push sends the stop command (value "1" or "0").

Cyclical Open /Close slats: Each short push sends the following sequence of commands: Open slats, Close slats, Open slats, Close slats.

Open slats: A long push transfers the stop (open slats) command (value "0") into the communication object.

Close slats: A long push transfers the stop (close slats) command (value "1") into the communication object.

Channel X - Long push release No reaction/Stop

The setting entered here defines which value is written into the storage cell of the communication object and sent after a long push release of the push-button related to the channel.

. "No reaction": Actions do not change the object value and also do not send a telegram.

Stop: the stop command (value "1" or "0") is transferred into the communication object and sent.

Add enable object Yes/No

The parameter determines whether the channels (1-2 or 3-4) can be blocked via an additional Enable object or not. If the channels (1-2 or 3-4) are blocked (Enable value = 1), the status changes of these channels are not transmitted.

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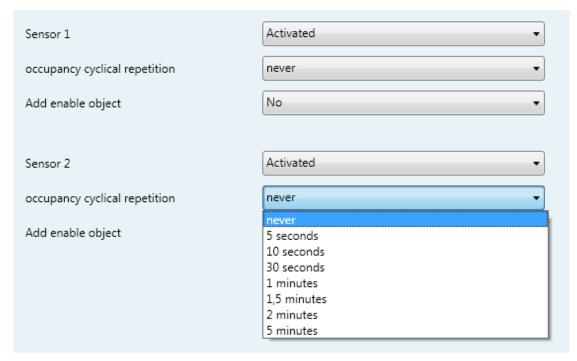
■ 10.4 Sensor configuration (1,2,3,4)

This screen allows users to choose how to manage the channels and to configure their settings.

No.	Object name	Function	Size	Flags
114 (116,118,120)	Channel 1 (2 -> 4)	Occupied/Unoccupied	1.018 (occupancy)	CWT
115 (117,119,121)	Channel 1 (2 -> 4)	Enable	1.003 DP_Switch (1 bit)	CW

Enable telegrams are received via the group address linked with this object. They are used to lock (disable) or unlock (enable) the corresponding channels

They are only visible if the "Add enable object" parameter value is set to "Yes".



Parameters	Setting	
Occupancy cyclical repetition	never	
	5 seconds	
	10 seconds	
	30 seconds	
	1 minute	
	1.5 minutes	
	2 minutes	
	5 minutes	
The setting entered here defines periodic sending of an occupancy telegram, use "never" to disable it.		

11.4.1 Use separately

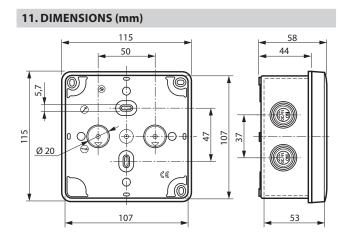
Channel X function

Not used

Channel is not usable, no accessible communication objects.

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