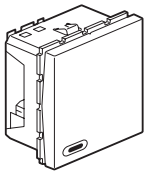
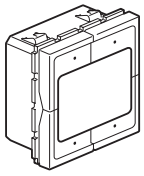
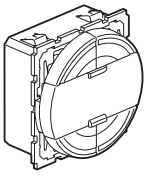
KNX four channels controls

Catalogue number(s): 0 784 89/91/94/95/96
0 675 70/71/79 - 5 735 02/03 - 5 742 03 - 5 744 04

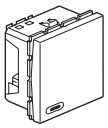
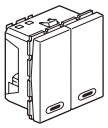
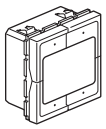
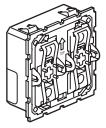
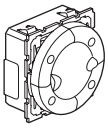
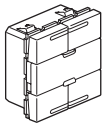
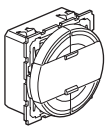




CONTENTS **Page**

1. USE

The KNX 4 channels commands are wiring devices suitable to control lights, shutters or other kind of loads. They are equipped with 4 completely independent and configurable channels able to perform a wide range of functions.
Main configurable functions:
• 1/2 buttons switching/dimming
• 1/2 buttons shutters and blinds management
• value sending (shutter position, dimming %...)
• sequential value sending
• multiple commands
• conditional commands
• 1/8 bit scenario saving and recall
Each device is also equipped with 4 RGB LED fully configurable in term of colors and blinking mode and can switch operating profiles according to defined events or conditions

2. RANGE

	Description	Catalogue number
	Mosaic control (1 button, 1 actuation point)	0 784 89
	Mosaic control (1 button, 2 actuation points)	0 784 95
	Mosaic control (2 buttons, 2 actuation points)	0 784 94
	Mosaic control (2 buttons, 4 actuation points)	0 784 96
	Mosaic control (4 buttons, 4 actuation points)	0 784 91
	Control (1 or 2 buttons, 4 actuation points) ⚠ To be fitted with Céliane or Arteor cover plates	0 675 71
	Céliane control (4 buttons, 4 actuation points) - White	0 675 70
	Céliane control (4 buttons, 4 actuation points) - Titanium	0 675 79
	Square Arteor control (4 buttons, 4 actuation points) White	5 742 03
	Square Arteor control (4 buttons, 4 actuation points) Magnesium	5 744 04
	Round Arteor control (4 buttons, 4 actuation points) White	5 735 02
	Round Arteor control (4 buttons, 4 actuation points) Magnesium	5 735 03

3. TECHNICAL FEATURES

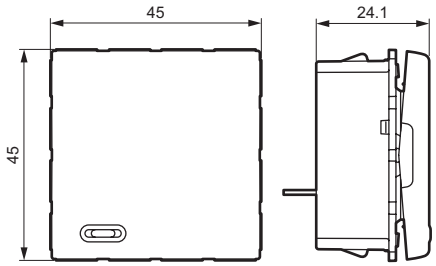
• Supply voltage: 29 V⎓
• KNX connector: red/black
• Automatic clamp
• Terminal capacity: 4 x (Ø 0.6  < Ø 0.8)
• KNX BUS absorption: 2.5 mA
• Usage temperature: -5°C/+45°C
• Storage temperature: -25°C/+30°C

3. TECHNICAL FEATURES (CONTINUED)

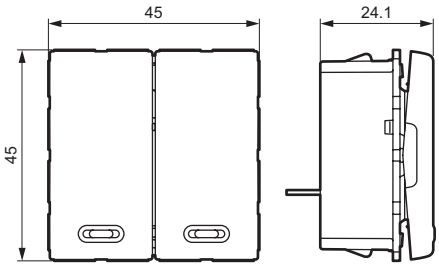
- IP 40: assembled product
- IP 20: without rocker plate
- IK 02
- Compliant with installation and manufacturing standards, see E-catalogue

4. OVERALL DIMENSIONS (mm)

0 784 89/95



0 784 94/96



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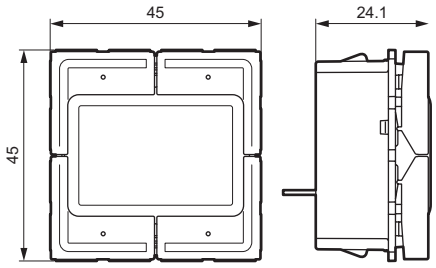

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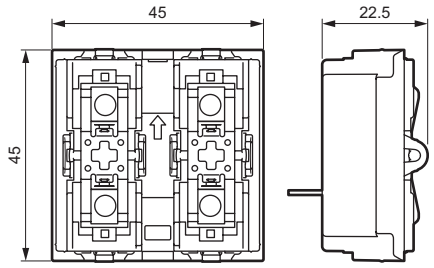

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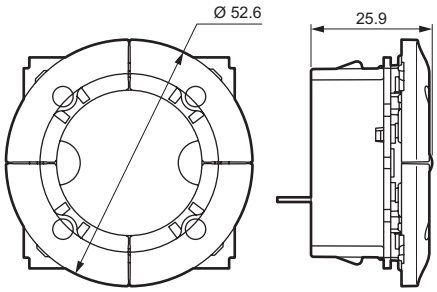
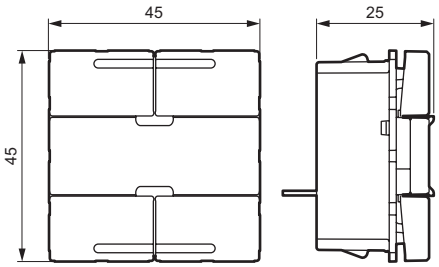


5 742 03/5 744 04



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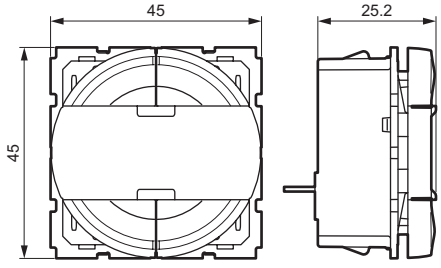
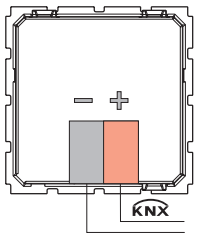
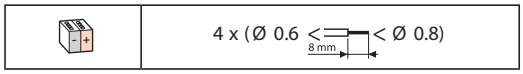


5. CONNECTION

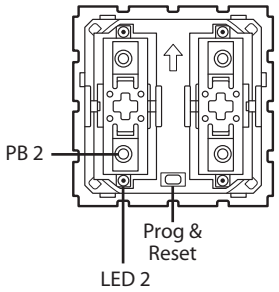


29 V⎓

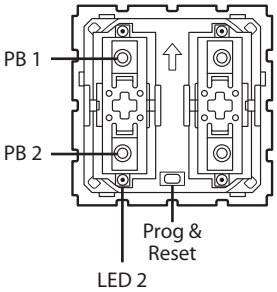


6. DESCRIPTION OF THE MECHANISMS

0 784 89



0 784 95



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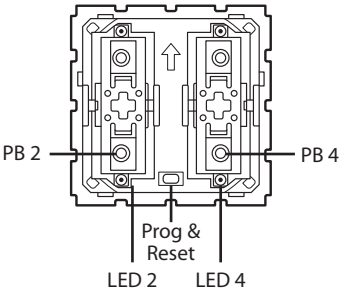

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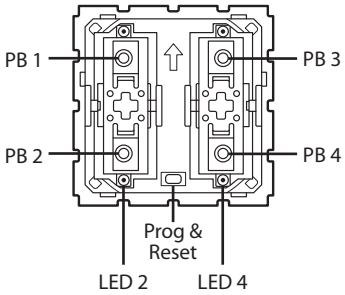

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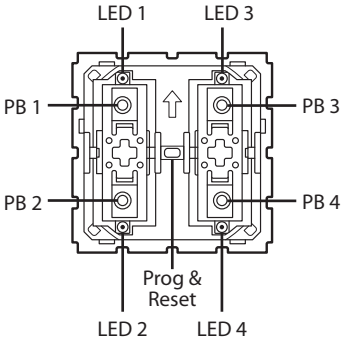

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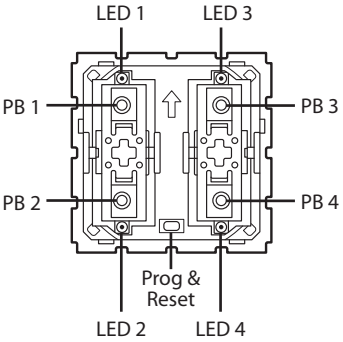
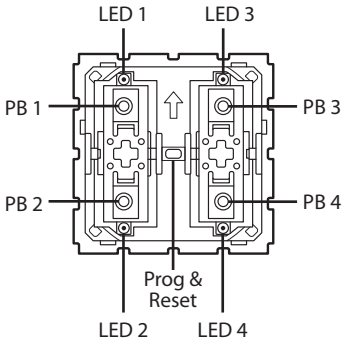
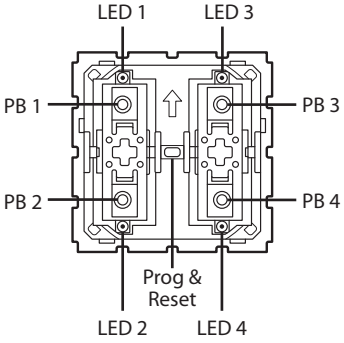


0 675 70/79

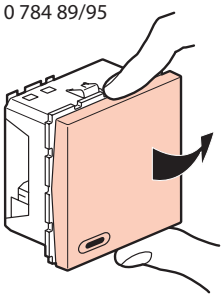


5 742 03 - 5 744 04 - 5 735 02/03

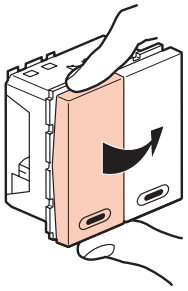


7. OPERATION

0 784 89/95



0 784 94/96



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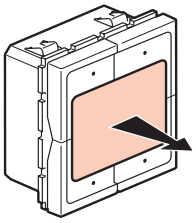
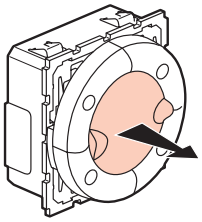
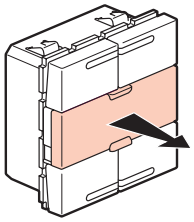


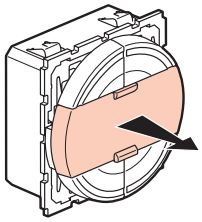
0 675 70/79



5 742 03/5 744 04



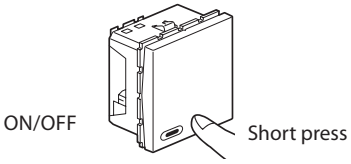
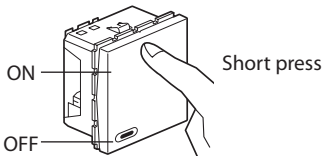
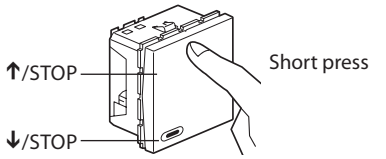
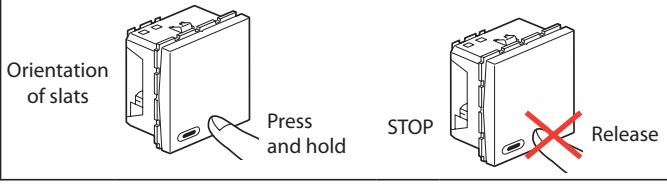
5 735 02/03



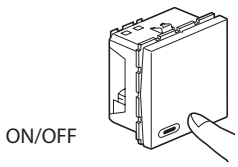
■ 7.1 Actuation points

Each actuation point can be configured independently or in pairs, for a short and a long press (time can be configured in the ETS software), for on/off control, dimming, roller blinds, scenario, lock, incremented scenarios, send value, double action send, etc.:
Non-exhaustive list of the possible functions.

7.1.1 Main functions

	Possible action	
Switch ON/OFF	• **Pushbutton or remote switch** Cyclical ON/OFF: short press	
	• **Switch** ON: short press at top OFF: short press at bottom	
Roller blinds	• **1 actuation point** Raise/lower: cyclical mode, long press Stop blind: short press	
	• **2 actuation points (pair)** Cyclical raise/stop: short press at top Cyclical lower/stop: short press at bottom Orientation of slats: long press at top or bottom Stop slats: release	
		

7.1.1 Main functions (continued)

<table>
<tr><td rowspan="3">Dim</td><td rowspan="3">• 1 actuation point
Cyclical ON/OFF: short press
Cyclical dim +, dim -: press and hold down
Stop dimming: release</td><td> 
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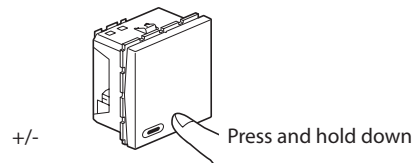
<tr><td> 
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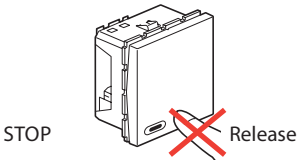
<tr><td> 
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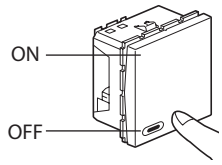
<tr><td rowspan="3">• 2 actuation points
ON/OFF: short press at top and bottom
Dim +: press at top and hold
Dim –: press at bottom and hold
Stop dimming: release</td><td> 
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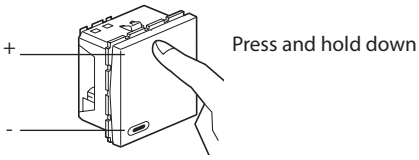
<tr><td> 
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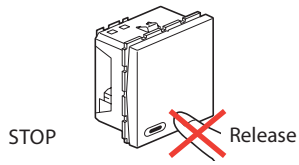
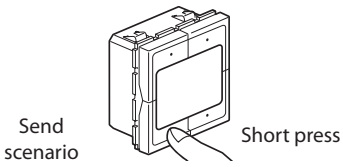
<tr><td> 
</td></tr>
<tr><td>Scenario</td><td>• Short press: send a scenario number that is in the actuator configuration
• Long press (10 seconds): save scenario.
All actuators with this scenario number will save their status at this moment
⚠ The length of this press cannot be configured in the ETS software</td><td> 
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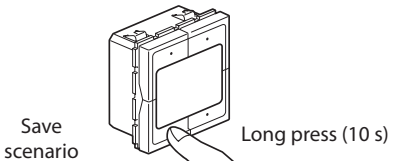
<tr><td> 
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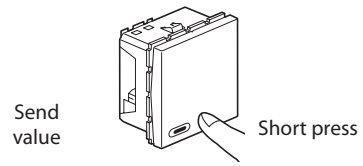
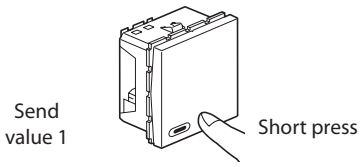
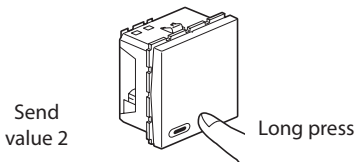
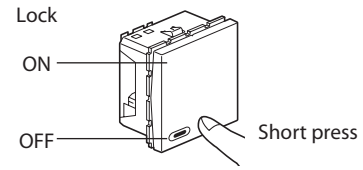
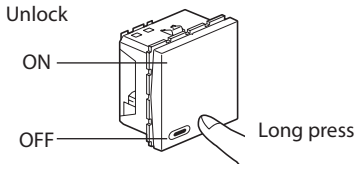
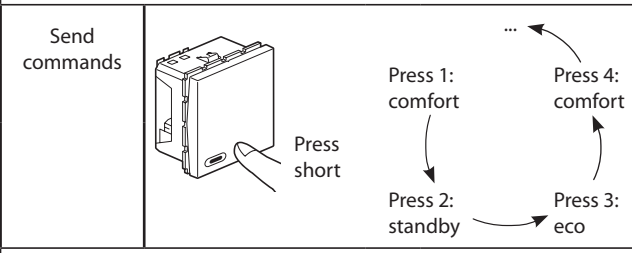
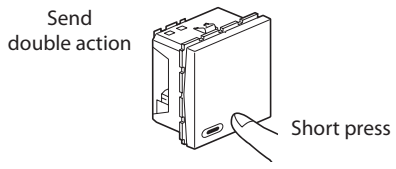
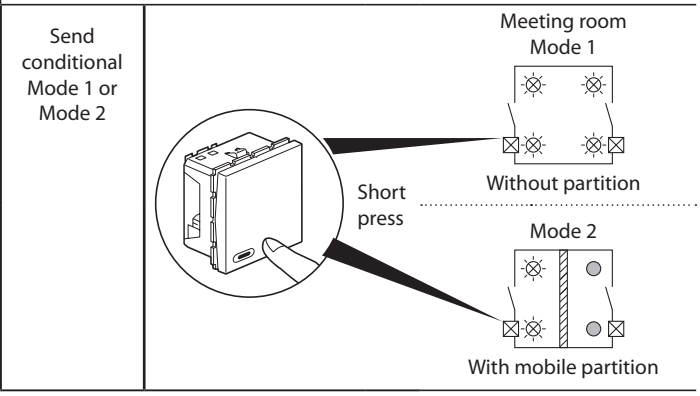
7.1.2 Additional functions

Send a value (lighting level, position of blinds, slats, etc.)	• **Short press:** send a value between 0 and 255. Example: Lighting 33% (value 85)	
Send 2 values (lighting level, position of blinds, slats, etc.)	• **Short press:** send 1st value between 0 and 255. Example : Lighting 10% (value 25) • **Long press:** send 2nd value between 0 and 255. Example : Lighting 50% (value 127)	 
Send priority (lock)	• **Long press:** lock "ON" or lock "OFF" • **Short press:** unlock "ON" or unlock "OFF" Example: on a long press, "lock ON", the output of the actuator will remain locked at "ON" until a short press to unlock it ("unlock ON", output at "ON", "unlock OFF", output at "OFF")	 
Send incremented commands (by scrolling)	• **Successive short presses:** send incremented commands. The chosen commands are sent one after the other (incrementation or decrementation between a min. and max. value, between 0 and 255) Example: 1st press: comfort (command 1), 2nd press: standby (command 2), 3rd press: eco (command 3), 4th press: comfort (command 1)	
Double action send (send 2 commands)	This function is used to associate products that do not have the scenario function with a scenario	
Conditional send Mode 1/Mode 2	When pressed, sends a command or a second different command, according to a condition. The control can steer different circuits according to an event. Example: in a meeting room, one press activates the switch-on of the 4 luminaires (mode 1). When a mobile partition is used in this meeting room, one press activates the 2 luminaires on the corridor side of the room.	

■ 7.2 Operation of the LEDs

Each control has a number of configurable RGB LEDs (1 to 4 depending on the Cat. No.) which indicate, for each press, the status of the system using the colours, flashing and brightness of the LEDs.
When the control has not yet been programmed, all the LEDs change colour quickly.
• Choice of 12 colours: green, blue, white, orange, gold, yellow, turquoise, cyan, light blue, purple, magenta, crimson
• Choice of LED behaviour: on continuously or various types of flashing

Key:
LED goes off | LED blinks slowly | LED blinks quickly | LED flashes

• Choice of the brightness of the LEDs (0 to 100%)
• Default modes:
ON = steady green
OFF = steady blue
Alarm = blinking red (cannot be modified)
Control deactivated = steady orange
• Physical address programming mode: steady red LEDs

7.2.1 Setting the brightness

- Normal brightness: adjustable value
- Eco brightness: adjustable value
- Standby brightness: value cannot be adjusted (off)

The LED's lights up at maximum brightness level for 30s after pressing any push button.
The brightness setting will be the same for all the LEDs on the control

7.2.2 Setting the colour and behaviour

• Actuator status feedback: ON or OFF
• System status feedback: contextual information indicated via the BUS
Example: over-consumption, broken lamp, too much wind for roller blinds.
It is also possible to use the control in pilot light mode.

8. STANDARDS AND APPROVALS

• Complies with standard IEC 60 669.2.1
• Marking: KNX EIB, CE

Note: All technical information is available at
www.legrandoc.com

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.

10. COMMUNICATION OBJECTS DESCRIPTION

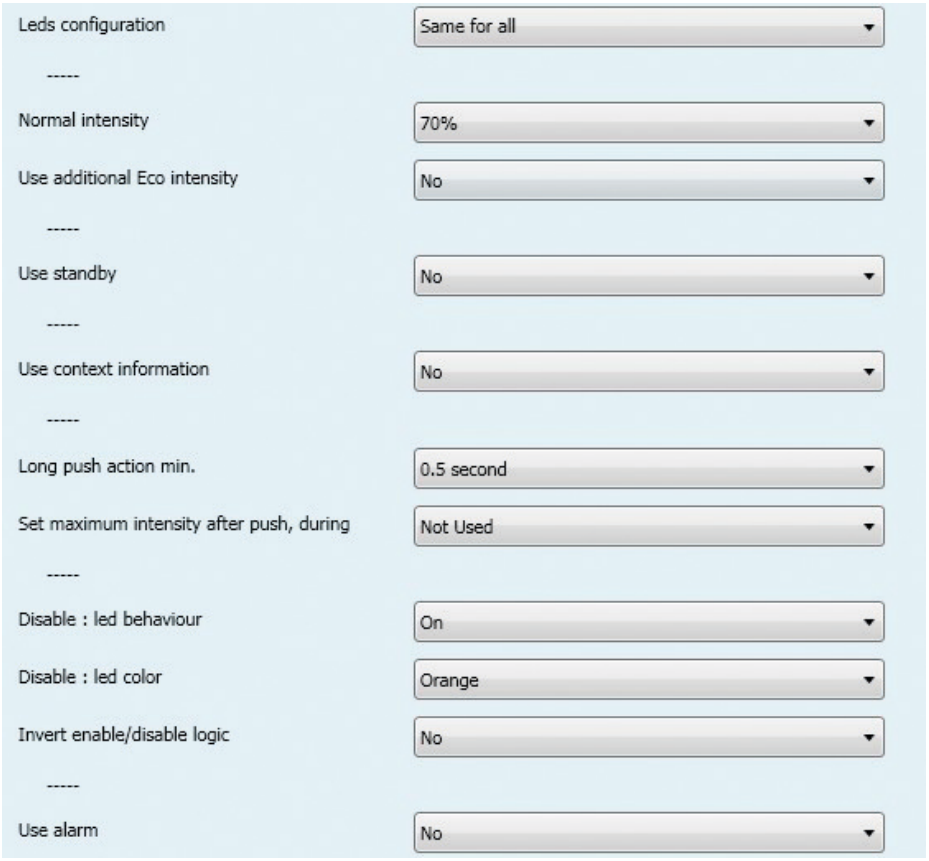
10.1 General configuration

KNX controls can be configured via the ETS software (versions ETS 3 and 4).

■ General Parameters

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

- LED settings
- Standby mode settings
- Contextual information settings
- Long push settings
- Disable object settings
- Alarm settings

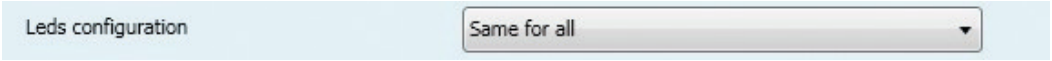


■ Communication Objects

Activation mode 1, 2.
Mode 1 : default operation
Mode 2 : conditional operation

No.	Object name	Function	Size	Flags
39	Mode	Active mode 1	1.010 DP_Start (1 bit)	CW
Mode 1 activation telegrams are sent via the group address linked with this object				
40	Mode	Active mode 2	1.010 DP_Start (1 bit)	CW
Mode 2 activation telegrams are sent via the group address linked with this object				
41	Mode	Mode 1 (False) / 2 (True)	1.002 DP_Bool (1 bit)	CW
False : Mode 1 activation telegrams are sent via the group address linked with this object True : Mode 2 activation telegrams are sent via the group address linked with this object				

■ 10.1.1 Leds configuration

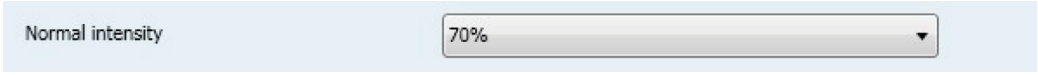


Leds configuration	**Same for all** Independently Pilot light
This parameter determines the type of configuration for the LEDs	

10. COMMUNICATION OBJECTS DESCRIPTION (CONTINUED)

■ 10.1.2 Normal intensity

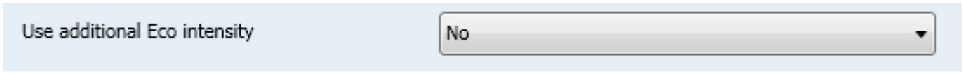
(Mode 1 parameters)



Parameters	Setting
Normal intensity	0 % 5 % 20 % 50% 70 % 100 %
This parameter determines the level in Normal intensity. (This value is felt not measured)	

■ 10.1.3 Use additionnal Eco intensity

Controlled by group address.

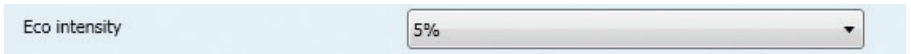


No

Eco is not usable, no accessible communication objects.

Yes (makes available mode eco object)

No.	Object name	Function	Size	Flags
34	Leds Eco/normal	Eco (1)/normal (0)	1.002 DP_Bool (1 bit)	CW
False : Normal mode activation telegrams are sent via the group address linked with this object True : Eco mode activation telegrams are sent via the group address linked with this object				
35	Leds Eco	Eco intensity	1.010 DP_Start (1 bit)	CW
Eco mode activation telegrams are sent via the group address linked with this object				
36	Leds Normal	Normal intensity	1.010 DP_Start (1 bit)	CW
Normal mode activation telegrams are sent via the group address linked with this object				



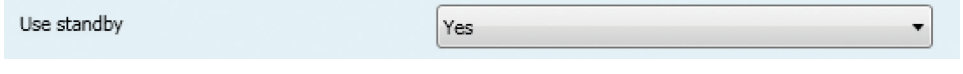
Parameters	Setting
Eco intensity	0 % 5 % 20 % 50% 70 %

■ 10.1.4 Use standby

Controlled by communication object.

No

Standby is not usable, no accessible communication objects.

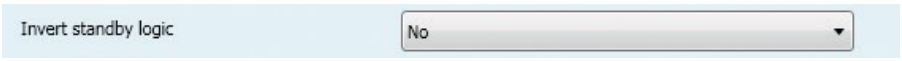


Yes (makes available the standby object)

No.	Object name	Function	Size	Flags
37	Leds standby	Standby	1.010 DP_Start (1 bit)	CW
Standby mode activation telegrams are sent via the group address linked with this object				

10. COMMUNICATION OBJECTS DESCRIPTION (CONTINUED)

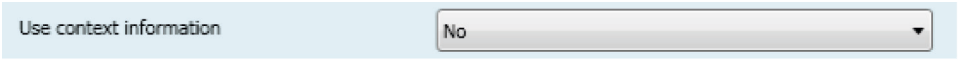
When standby is active the leds intensity is set to 0% (not adjustable)



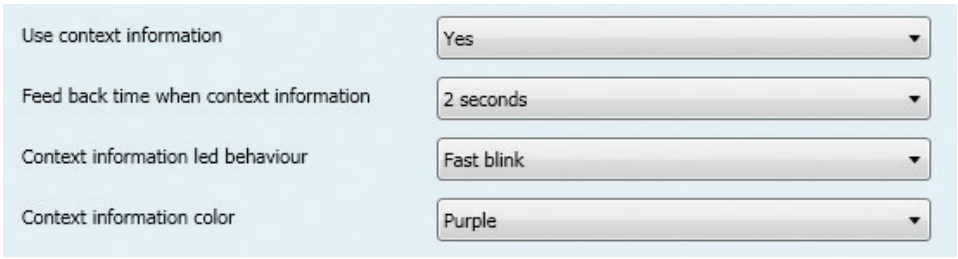
Invert standby logic	No Yes
This parameter determines the type of logic for active standby	

■ **10.1.5 Use context information**

The contextual information are all the feedback the system provide via the bus and displayed through the LEDs.
The contextual information are displayed each time a push-button is pressed



No
Context information is not usable, no accessible communication object.



Yes (makes available the contextual information object)

No.	Object name	Function	Size	Flags
30 (31.32,33)	Channel 1(2,3,4)	ContextInfo	1.010 DP_Start (1 bit)	CW
Context info telegram are received via the group address linked with this object. They are used to inform on event when you push on channel linked.				

Parameters These parameters determine the behaviour of the led after a push when the "context info is used".	Setting
Feed back time when Context Info	500 ms 1 second 2 seconds 5 seconds 10 seconds 30 seconds 1 minute 1 min. 30s 2 min. 10 min. 15 min. 30 min. 45 min 1 h 1 h 30 Infinite
Context information led behaviour	Off On Slow blink Fast blink Soft blink Flash 1 Flash 2 Flash 3 Pulse

10. COMMUNICATION OBJECTS DESCRIPTION (CONTINUED)

Parameters These parameters determine the behaviour of the led after a push when the "context info is used".	**Setting**
Context information color (if Feed back time ContextInfo is used)	Green (Vert) Blue (Bleu) White (Blanc) Orange Gold (Or) Yellow (Jaune) Turquoise Cyan Light blue (Bleu) Violet Pink (Rose) Purple (Pourpre)

■ 10.1.6 Long push configuration

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

Long push action min.	**0.5 second** 1 second 2 seconds 3 seconds 4 seconds 5 seconds 10 seconds

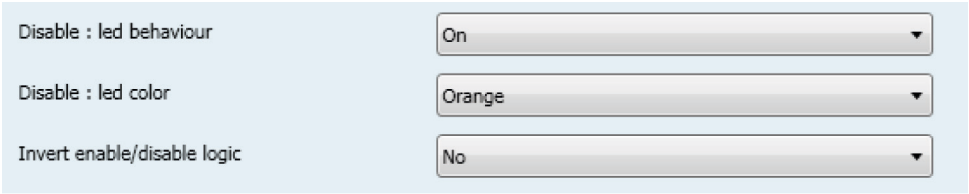
■ 10.1.7 Set maximum intensity after push during

If selected, after a push, the intensity of the led is raised to 100% during the set time. Return to the initial value at the end of time.

Set maximum intensity after push during :	**Not Used** 500 ms 1 second 2 seconds 5 seconds 10 seconds 30 seconds 1 minute 1 min. 30s 2 min. 10 min. 15 min. 30 min. 45 min 1 h 1 h 30

■ 10.1.8 Led behavior on Disable status

Determine the behaviour of leds when the commands receive disable telegram.



	Number	Name	Object Functi...	Descripti...	Group Addresses	Leng...	C	R	W	T	U	Data Type	Priori...
	4	Channel 1	Enable			1 bit	C	-	W	-	-	enable	Low

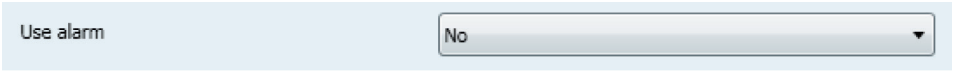
10. COMMUNICATION OBJECTS DESCRIPTION (CONTINUED)

■ 10.1.8 Led behavior on Disable status (continued)

Parameters	Setting
Disable : led behaviour	Off On Slow blink Fast blink Soft blink Flash 1 Flash 2 Flash 3 Pulse
The parameter determines the state of Led when a Disable telegram on Channel x is disabled.	
Disable : led color	Green Blue White Orange Gold Yellow Turquoise Cyan Light blue Violet Pink Purple
The parameter determines the color of Led when a Disable telegram on Channel x is disabled.	
Invert enable/disable logic	No Yes
This parameter determines the type of logic to active/deactive a Disable status.	

■ 10.1.9 Use Alarm

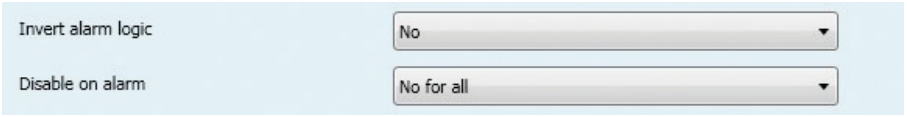
A message can activate in red blinking the 4 leds.



No
Alarm is not usable, no accessible communication object.

Yes (makes available the alarm communication object)
When alarm object is active all the LED blinks and the instensity is set to 100%

No.	Object name	Function	Size	Flags
38	Alarm	Alarm	1.010 DP_Start (1 bit)	CW
Alarm activation telegrams are sent via the group address linked with this object				

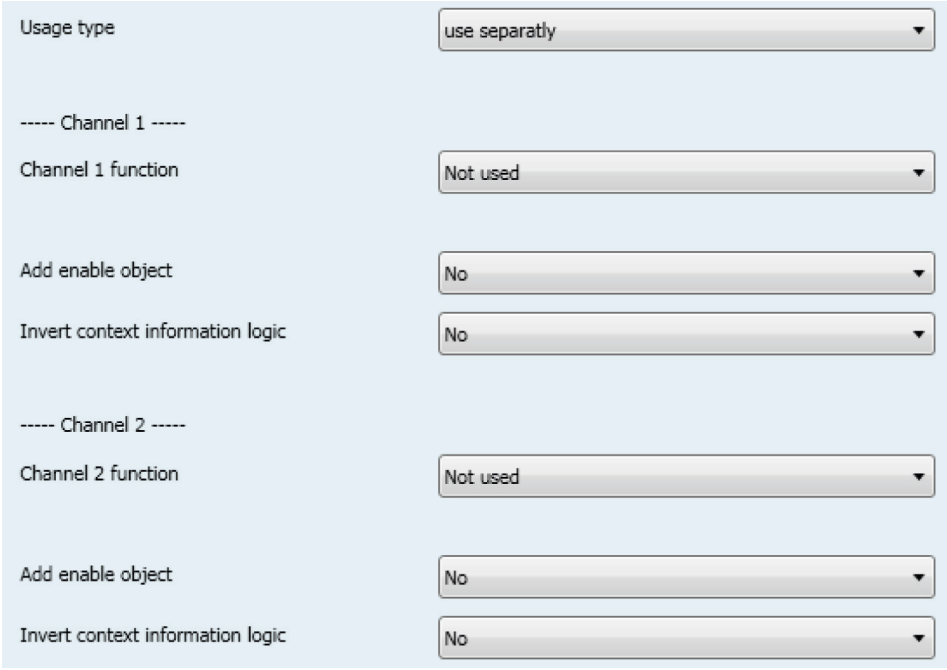


Parameters	Setting
Invert alarm logic	No Yes
This parameter determines the type of logic to active/deactive an alarm	
Disable on Alarm	Yes for all No for all Configure Independatly
The parameter determines if the channels are disabled on alarm. If is it chosen "Configure independently" it is possible to choose one by one the channel behaviour.	

10. COMMUNICATION OBJECTS DESCRIPTION (CONTINUED)

10.2 Channels configuration (1,2,3,4)

This screen allows to chose how to manage the channels and to configure their settings



■ 10.2.1 Use separately

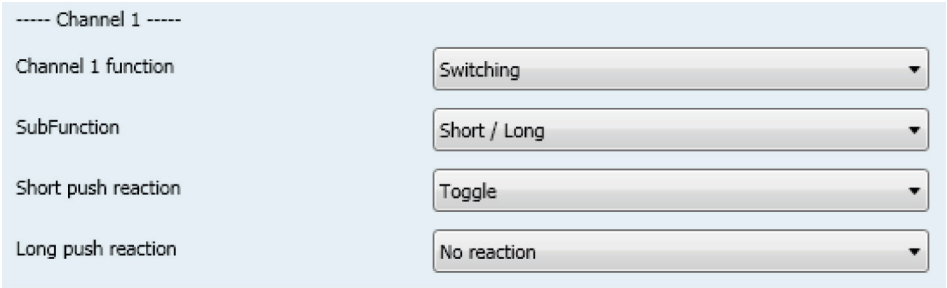
Channel X function

Not used

Channel is not usable, no accessible communication objects

10.2.1.1 Switching

No.	Object name	Function	Size	Flags
2 (9,16,23)	Channel 1 (2,3,4)	Switching	1.001 DP_Switch (1 bit)	CWT
Switching telegrams are sent via the group address linked with this object				
3 (10,17,24)	Channel 1 (2,3,4)	Switching Status	1.01 DP_Switch (1 bit)	CW
Switching status are received via the group address linked with this object.				



10. COMMUNICATION OBJECTS DESCRIPTION (CONTINUED)

SubFunction

Short/long

Parameters	Setting
Short push reaction	No reaction On Off Toggle
Here an adjustment is made to define which switching value is written into the storage cell of the communication object and sent after short pressing 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 short push, the switching value "ON" (binary value, "1") is transferred into the communication object and sent. "Off": After short push, the switching value "OFF" (binary value,"0") is transferred into the communication object and sent. "Toggle" : After 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
Here an adjustment is made to define which switching value is written into the storage cell of the communication object and sent after long pressing 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 long push, the switching value "ON" (binary value, "1") is transferred into the communication object and sent. "Off" : After long push, the switching value "OFF" (binary value,"0") is transferred into the communication object and sent. "Toggle" : After long push, the switching value stored in the communication object is inverted and the new value is sent	

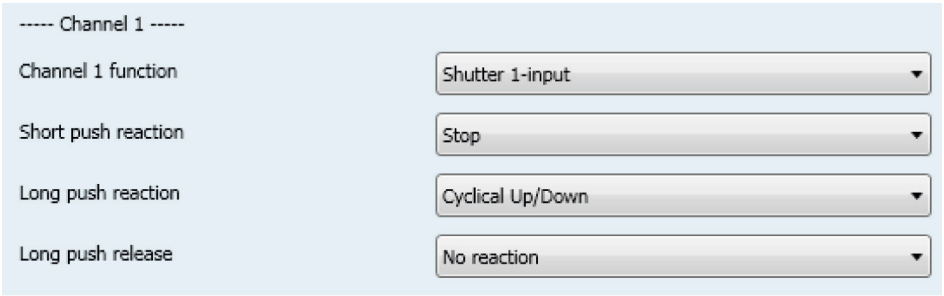
Push/Release

Parameters	Setting
Push reaction	No reaction On Off Toggle
Here an adjustment is made to define 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": Pushing a button action does not change the object value and also does not send a telegram. "On": Pressing a push-button, the switching value "ON" (binary value, "1") is transferred into the communication object and sent. "Off": Pressing a push-button, the switching value "OFF" (binary value,"0") is transferred into the communication object and sent. "Toggle" : Pressing a push-button, the switching value stored in the communication object is inverted and the new value is sent	
Release reaction	No reaction On Off Toggle
Here an adjustment is made to define 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": A release of the push-button does not change the object value and also does not send a telegram. "On": After releasing a push-button, the switching value "ON" (binary value, "1") is transferred into the communication object and sent. "Off" : After releasing a push-button, the switching value "OFF" (binary value,"0") is transferred into the communication object and sent. "Toggle" : Releasing a push-button, the switching value stored in the communication object is inverted and the new value is sent	

10. COMMUNICATION OBJECTS DESCRIPTION (CONTINUED)

10.2.1.2 Shutter 1-input

No.	Object name	Function	Size	Flags
2 (9,16,23)	Channel 1 (2,3,4)	Shutter Up/Down	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 (15,22,29)	Channel 1 (2,3,4)	Shutter Stop - slats	1.009 DP_OpenClose (1 bit)	CWT
The command "STOP" or "Slats OPEN/CLOSE" are sent via the group address linked with this object.				
7 (14,21,28)	Channel 1 (2,3,4)	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
Here an adjustment is made to define which movement command is written into the storage cell of the communication object and sent after short pressing 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 command values into the communication object: Up, Stop, Down, Stop, Up, Stop, Down, Stop,etc. Up + stop : each short push transfers the following sequence command values into the communication object: Up, Stop, Up, Stop,,etc. Down + stop : each short push transfers the following sequence command values into the communication object: Down, Stop, Down, Stop, etc. Cyclical Up / Down: each short push transfers the following sequence command values into the communication object : Up, Down, Up, Down,,etc. Stop : a short push transfers into the communication object the stop command value ("1" or "0") Open slats: a short push transfers into the communication object the stop (open slats) command value ("0") Close slats: a short push transfers into the communication object the stop (close slats) command value ("1") Up: a short push transfers into the communication object the Up command (value "0") Down: a short push transfers into the communication object the Down command (value "1")	
Long push reaction	No reaction Up Down Cyclical Up/Down Stop Cyclical Open/Close slats Open slats Close slats
Here an adjustment is made to define which movement command is written into the storage cell of the communication object and sent after long pressing 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 send the Up command (value "0") Down: a long push sends the Down command (value "1") Cyclical Up / Down: each long push sends the following sequence 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 commands : Open slats, Close slats, Open slats, Close slats.	

10. COMMUNICATION OBJECTS DESCRIPTION (CONTINUED)

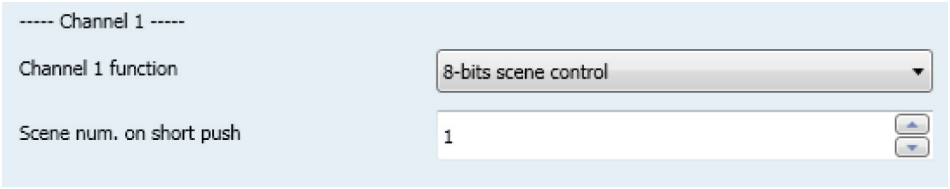
10.2.1.2 Shutter 1-input (continued)

Parameters	Setting
Open slats: a long push action sends the (open slats) command (value "0") Close slats: a long push action sends the (close slats) command (value "1")	
Long push release	No reaction Stop
Here an adjustment is made to define which value is written into the storage cell of the communication object and sent when releasing the push-button releated 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	

10.2.1.3 8-bits scene control

This function allows to recall/save up to 64 scene.
A short push recalls the scene and a special long push (10s) allows to save a scene; for the defined scene number all the involved actuators statuses are saved.

No.	Object name	Function	Size	Flags
5 (12,19,26)	Channel 1 (2,3,4)	8-bits scene	17.001 DP_SceneNumber (1 Byte)	CT
The telegrams to recall the scene with the configured number (1..64) are sent via the group address link 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	

10.2.1.4 Priority

This function allows to send lock/unlock commands.

No.	Object name	Function	Size	Flags
5 (12,19,26)	Channel 1 (2,3,4)	Override 2bits	2.001 DP_Switch_Control (2 bits)	CT
The 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)
Here it is chosen the desired value to be sent upon a short press of the push-button related to the channel.	
Long push reaction	Priority High / On Priority High / Off Priority Low / On Priority Low / Off
Here it is chosen the desired value to be sent upon a long press of the push-button related to the channel.	

10. COMMUNICATION OBJECTS DESCRIPTION (CONTINUED)

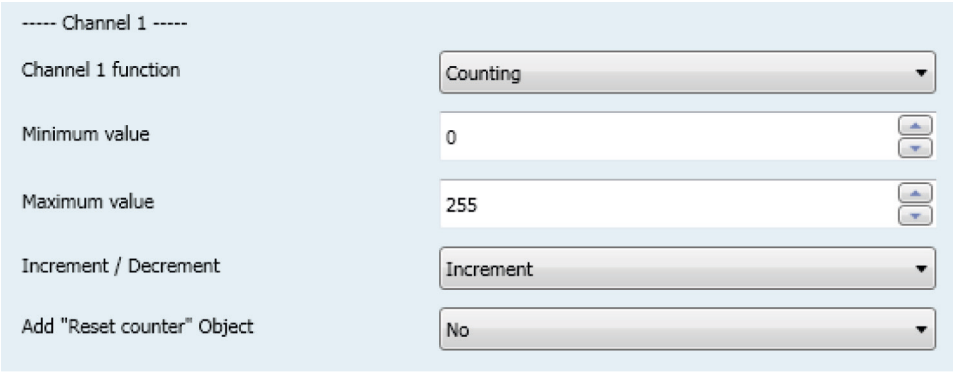
10.2.1.4 Priority (continued)

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

10.2.1.5 Counting

This function allows to send incremental values at each pressure.

No.	Object name	Function	Size	Flags
5 (12,19,26)	Channel 1 (2,3,4)	Counting	17.001 DP_SceneNumber (1 Byte)	CT
The telegrams to recall the scene with the configured number (1..64) are sent via the group address link with this object.				
3 (10,17,24)	Channel 1 (2,3,4)	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.				



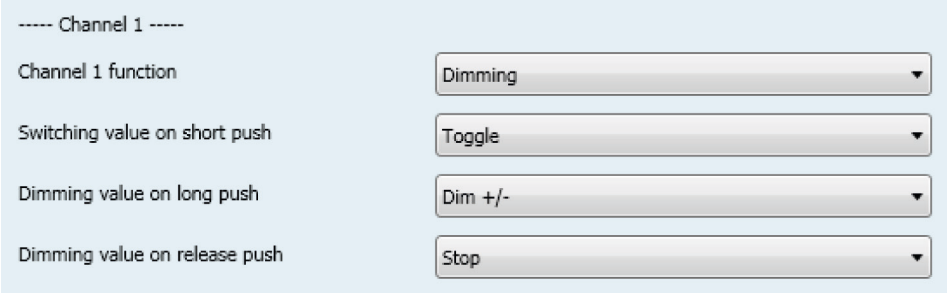
Parameters	Setting
Minimum value	0..255, 0
An adjustment is made via this parameter to define the minimum counter value. In case of "decrement" value of "Increment decrement" parameter, the next counter value is set to the maximum.	
Maximum value	0..255, 255
An adjustment is made via this parameter to define the maximum counter value In case of "increment" value of "Increment decrement" parameter, the next counter value is set to the minimum.	
Increment / Decrement	Increment Decrement
Here an adjustment is made as to 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 if the "Reset Counter" object is enabled or not.	

10.2.1.6 Dimming

No.	Object name	Function	Size	Flags
2 (9,16,23)	Channel 1 (2,3,4)	Switching	1.01 DP_Switch (1bit)	CWT
Switching telegrams are sent via the group address linked with this object.				
6 (13,20,27)	Channel 1 (2,3,4)	Dimming	3.007 DP_Control_Dimming (4 bit)	CT
Dimming telegrams are sent via the group address linked with this object.				
7 (14,21,28)	Channel 1 (2,3,4)	Value Status	5.001 DP_Scaling (1 Byte)	CW
Dimming status telegrams are received via the group address linked with this object.				

10. COMMUNICATION OBJECTS DESCRIPTION (CONTINUED)

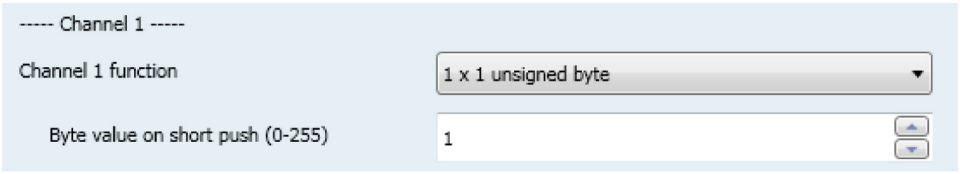
10.2.1.6 Dimming (continued)



Parameters	Setting
Switching value on short push	No reaction On Off Toggle
Here an adjustment is made to define which switching value is written into the storage cell of the communication object and sent after short pressing the push button related to the channel. "No reaction": A short push button action 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.	
Dimming value on long push	Dim +/- Dim + Dim – No reaction
Here an adjustment is made to define which dimming value is written into the storage cell of the communication object and sent after long pressing the push button related to the channel. "No reaction": A long push button action does not change the object value and also does 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 long push, the dimming value "Increase 100%" is transferred into the communication object and sent. "Dim -" : After a long push, the dimming value "Decrease 100%" is transferred into the communication object and sent.	
Dimming value on release push	No reaction Stop
Here an adjustment is made to define which dimming 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": a release after 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.	

10.2.1.7 1 x 1 unsigned byte

No.	Object name	Function	Size	Flags
5 (12,19,26)	Channel 1 (2,3,4)	Unsigned Value	5.010 DP_Value_1_Ucount (1 Byte)	CT
The telegrams with the unsigned value are sent via the group address linked with this object				

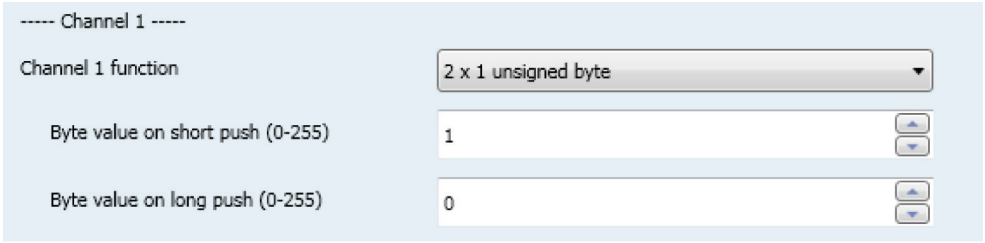


Parameters	Setting
Byte value on short push (0-255)	0..255, 1
Here an adjustment is made to define which unsigned 8 bits value is written into the storage cell of the communication object and sent after a rising edge in the signal status at the channel (input). The rising edge corresponds to a change in the signal status at the Channel from logical "0" to "1".	

10. COMMUNICATION OBJECTS DESCRIPTION (CONTINUED)

10.2.1.8 2 x 1 unsigned byte

No.	Object name	Function	Size	Flags
5 (12,19,26)	Channel 1 (2,3,4)	Unsigned Value	5.010 DP_Value_1_Ucount (1 Byte)	CT
The telegrams with the unsigned value are sent via the group address linked with this object				



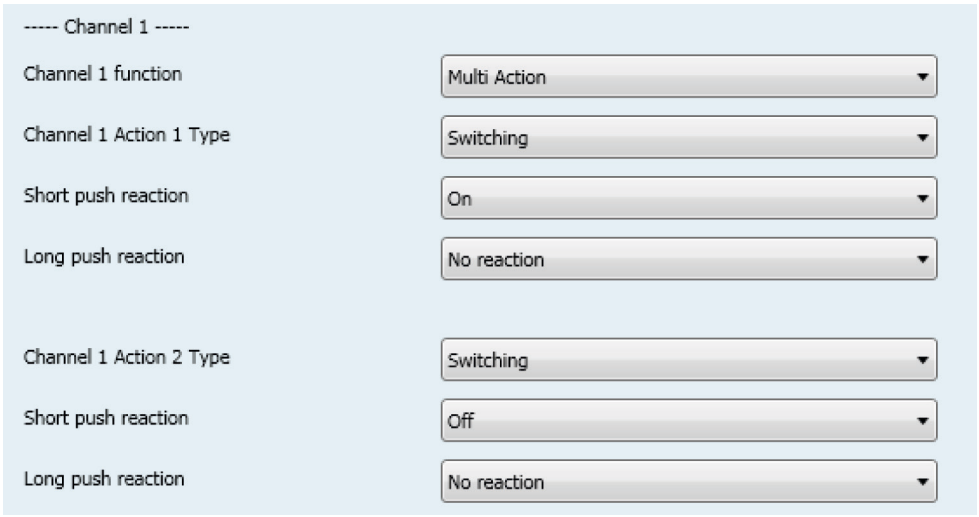
Parameters	Setting
Byte value on short push (0-255)	0..255, 1
Here an adjustment is made to define which unsigned-8 bits value is written into the storage cell of the communication object and sent after short pressing of the push button attached to the channel.	
Byte value on short push (0-255)	0..255, 0
Here an adjustment is made to define which unsigned-8 value is written into the storage cell of the communication object and sent after long pressing of the push button attached to the input.	

10.2.1.9 Multi action

This function allows to send two telegrams with a single pressure (Channel X and Channel X Action 2).

Switching :

No.	Object name	Function	Size	Flags
2 (9,16,23)	Channel 1 (2,3,4) Action 1	Switching	1.01 DP_Switch (1 bit)	CWT
Switching telegrams are sent via the group address linked with this object				
3 (10,17,24)	Channel 1 (2,3,4) Action 1	Switching Status	1.01 DP_Switch (1 bit)	CW
Switching status are received via the group address linked with this object.				
42 (44,46,48)	Channel 1 (2,3,4) Action 2	Switching	1.01 DP_Switch (1 bit)	CWT
Switching telegrams are sent via the group address linked with this object				



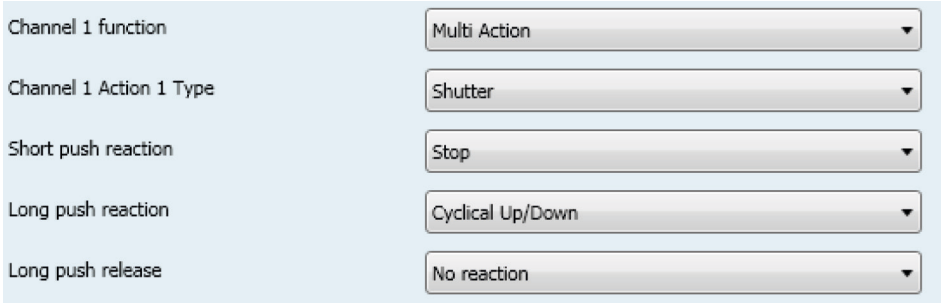
10. COMMUNICATION OBJECTS DESCRIPTION (CONTINUED)

10.2.1.9 Multi action (continued)

Parameters	Setting
Short push reaction	No reaction On Off Toggle
Here an adjustment is made to define which switching value is written into the storage cell of the communication object and sent after short pressing 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
Here an adjustment is made to define which switching value is written into the storage cell of the communication object and sent after a long pressing 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	

Shutter :

No.	Object name	Function	Size	Flags
2 (9,16,23)	Channel 1 (2,3,4) Action 1	Shutter Up/Down	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 (15,22,29)	Channel 1 (2,3,4) Action 1	Shutter Stop - slats	1.009 DP_OpenClose (1 bit)	CWT
The command "STOP" or "Slats OPEN/CLOSE" are sent via the group address linked with this object.				
7 (14,21,28)	Channel 1 (2,3,4) Action 1	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.				
42 (44,46,48)	Channel 1 (2,3,4) Action 2	Shutter Up/Down	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.				
43 (45,47,49)	Channel 1 (2,3,4) Action2	Shutter Stop - slats	1.009 DP_OpenClose (1 bit)	CWT
The command "STOP" or "Slats OPEN/CLOSE" are sent via the group address linked with this object.				



10. COMMUNICATION OBJECTS DESCRIPTION (CONTINUED)

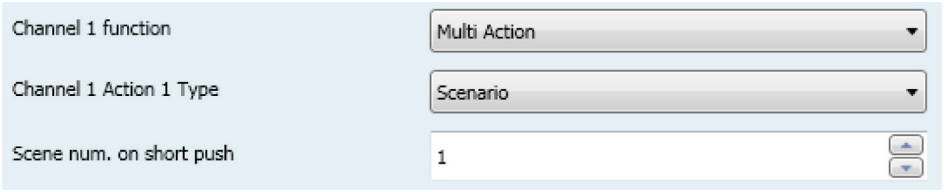
Shutter (continued)

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
Here an adjustment is made to define which movement command is written into the storage cell of the communication object and sent after short pressing the push button related to the channel. "No reaction": action does not change the object value and also does not send a telegram. Cyclical Up / Down + stop : each short push transfers the following sequence command values into the communication object: Up, Stop, Down, Stop, Up, Stop, Down, Stop,etc. Up + stop : each short push transfers the following sequence command values into the communication object: Up, Stop, Up, Stop,,etc. Down + stop : each short push transfers the following sequence command values into the communication object: Down, Stop, Down, Stop,,etc. Cyclical Up / Down: each short push transfers the following sequence command values into the communication object : Up, Down, Up, Down,,etc. Stop : a short push transfers into the communication object the stop command value ("1" or "0") Open slats: a short push transfers into the communication object the stop (open slats) command value ("0") Close slats: a short push transfers into the communication object the stop (close slats) command value ("1") Up: a short push transfers into the communication object the Up command (value "0") Down: a short push transfers into the communication object the Down command (value "1")	
Long push reaction	No reaction Up Down Cyclical Up/Down Stop Cyclical Open/Close slats Open slats Close slats
Here an adjustment is made to define which movement command is written into the storage cell of the communication object and sent after long pressing the push button related to the channel. "No reaction": action does not change the object value and also does not send a telegram. Up: a long push action send is transferred into the communication object the Up command (value "0") Down: a long push action send the Down command (value "1") Cyclical Up / Down: each short push send the following sequence commands: Up, Down, Up, Down,,etc. Stop : a long push action send the stop command (value "1" or "0") Cyclical Open /Close slats : each short push send the following sequence commands : Open slats, Close slats, Open slats, Close slats Open slats: a long push action send is transferred into the communication object the stop (open slats) command (value "0") Close slats: a long push action send is transferred into the communication object the stop (close slats) command (value "1")	
Long push release	No reaction Stop
Here an adjustment is made to define which value is written into the storage cell of the communication object and sent after a long press release of the push button related to the Channel. "No reaction": action does not change the object value and also does not send a telegram. Stop : the stop command (value "1" or "0") is transferred into the communication object and sent.	

10. COMMUNICATION OBJECTS DESCRIPTION (CONTINUED)

Scenario :
This function allows to recall/save up to 64 scene.
A short push recalls the scene and a special long push (10s) allows to save a scene; for the defined scene number all the involved actuators statuses are saved.

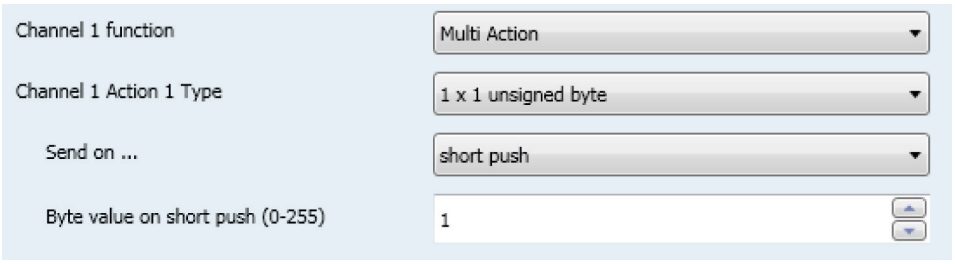
No.	Object name	Function	Size	Flags
5 (12,19,26)	Channel 1 (2,3,4) Action 1	8-bits scene	17.001 DP_SceneNumber (1 Byte)	CT
The telegrams to recall the scene with the configured number (1..64) are sent via the group address link with this object.				
42 (44,46,48)	Channel 1 (2,3,4) Action 2	8-bits scene	17.001 DP_SceneNumber (1 Byte)	CT
The telegrams to recall the scene with the configured number (1..64) are sent via the group address link with this object.				



Parameters	Setting
Scene num. on short push (0:none)	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	

1x1 unsigned byte :

No.	Object name	Function	Size	Flags
5 (12,19,26)	Channel 1 (2,3,4) Action 1	Unsigned Value	5.010 DP_Value_1_Ucount (1 Byte)	CT
The telegrams with the unsigned value are sent via the group address linked with this object				
42 (44,46,48)	Channel 1 (2,3,4) Action 2	Unsigned Value	5.010 DP_Value_1_Ucount (1 Byte)	CT
The telegrams with the unsigned value are sent via the group address linked with this object				

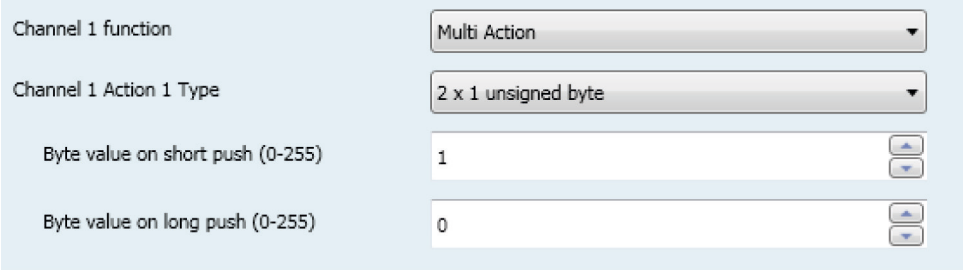


Parameters	Setting
Send on…	Short push Long push
Here an adjustment is made to define the lenght of the push to send the byte value.	
Byte value on short push (0-255)	0..255, 1
Here an adjustment is made to define which unsigned value is written into the storage cell of the communication object and sent after a rising edge in the signal status of the channel (input). The rising edge corresponds to a change in the signal status of the Channel from logical "0" to "1".	

10. COMMUNICATION OBJECTS DESCRIPTION (CONTINUED)

2x1 unsigned byte :

No.	Object name	Function	Size	Flags
5 (12,19,26)	Channel 1 (2,3,4) Action 1	Unsigned Value	5.010 DP_Value_1_Ucount (1 Byte)	CT
The telegrams with the unsigned value are sent via the group address linked with this object				
42 (44,46,48)	Channel 1 (2,3,4) Action 2	Unsigned Value	5.010 DP_Value_1_Ucount (1 Byte)	CT
The telegrams with the unsigned value are sent via the group address linked with this object				



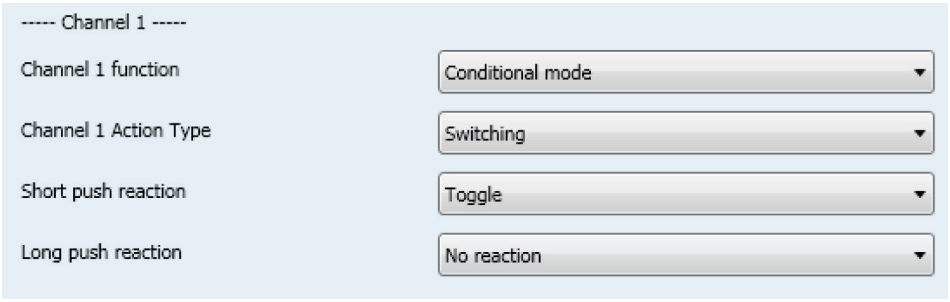
Parameters	Setting
Byte value on short push (0-255)	0..255, 1
Here an adjustment is made to define which unsigned value is written into the storage cell of the communication object and sent after short pressing the push button related to the channel.	
Byte value on long push (0-255)	0..255, 0
Here an adjustment is made to define which unsigned value is written into the storage cell of the communication object and sent after long pressing the push button related to the channel.	

10.2.1.10 Conditional mode

This function allows to send a telegram of the same type in two groups according to Mode 1 or 2 :
- When mode 1 is active, is sent Channel X.
- When mode 2 is active, is sent Channel X Action 2.

Switching :

No.	Object name	Function	Size	Flags
2 (9,16,23)	Channel 1 (2,3,4) Mode 1	Switching	1.01 DP_Switch (1 bit)	CWT
Switching telegrams are sent via the group address linked with this object				
3 (10,17,24)	Channel 1 (2,3,4) Mode 1	Switching Status	1.01 DP_Switch (1 bit)	CW
Switching status are received via the group address linked with this object. They are only visible if "Add status object" parameter value is set to "yes".				
42 (44,46,48)	Channel 1 (2,3,4) Mode 2	Switching	1.01 DP_Switch (1 bit)	CWT
Switching telegrams are sent via the group address linked with this object .				



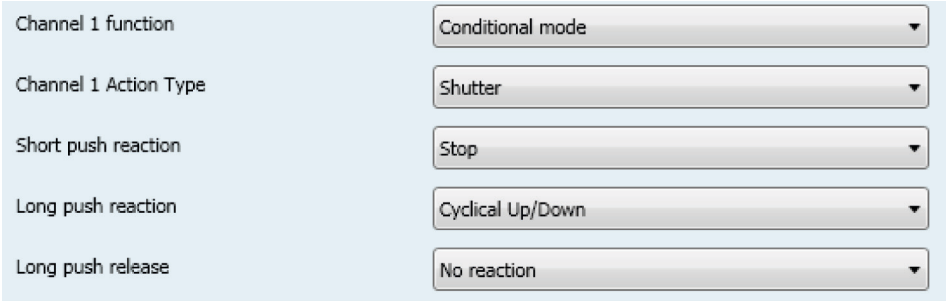
10. COMMUNICATION OBJECTS DESCRIPTION (CONTINUED)

Switching (continued) :

Parameters	Setting
Short push reaction	No reaction On Off Toggle
Here an adjustment is made to define which switching value is written into the storage cell of the communication object and sent after short pressing the push button related to the channel. "No reaction": A short push button action 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
Here an adjustment is made to define which switching value is written into the storage cell of the communication object and sent after long pressing the push button related to the channel. "No reaction": A long push button action 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	

Shutter :

No.	Object name	Function	Size	Flags
2 (9,16,23)	Channel 1 (2,3,4) Mode 1	Shutter Up/Down	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 (15,22,29)	Channel 1 (2,3,4) Mode 1	Shutter Stop - slats	1.009 DP_OpenClose (1 bit)	CWT
The command "STOP" or "Slats OPEN/CLOSE" are sent via the group address linked with this object.				
7 (14,21,28)	Channel 1 (2,3,4) Mode 1	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.				
42 (44,46,48)	Channel 1 (2,3,4) Mode 2	Shutter Up/Down	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.				
43 (45,47,49)	Channel 1 (2,3,4) Mode 2	Shutter Stop - slats	1.009 DP_OpenClose (1 bit)	CWT
The command "STOP" or "Slats OPEN/CLOSE" are sent via the group address linked with this object.				



10. COMMUNICATION OBJECTS DESCRIPTION (CONTINUED)

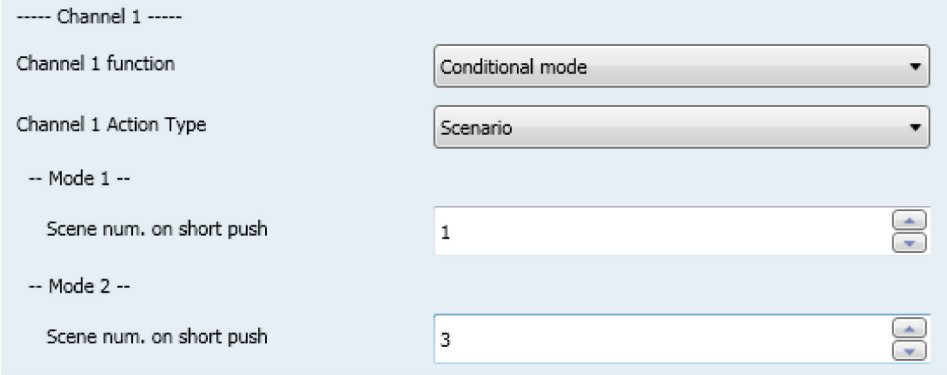
Shutter (continued) :

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
Here an adjustment is made to define which movement command is written into the storage cell of the communication object and sent after short pressing the push button related to the channel. "No reaction": action does not change the object value and also does not send a telegram. Cyclical Up / Down + stop : each short push transfers the following sequence command values into the communication object: Up, Stop, Down, Stop, Up, Stop, Down, Stop,etc. Up + stop : each short push transfers the following sequence command values into the communication object: Up, Stop, Up, Stop,,etc. Down + stop : each short push transfers the following sequence command values into the communication object: Down, Stop, Down, Stop,,etc. Cyclical Up / Down: each short push transfers the following sequence command values into the communication object : Up, Down, Up, Down,,etc. Stop : a short push transfers into the communication object the stop command value ("1" or "0") Open slats: a short push transfers into the communication object the stop (open slats) command value ("0") Close slats: a short push transfers into the communication object the stop (close slats) command value ("1") Up: a short push transfers into the communication object the Up command (value "0") Down: a short push transfers into the communication object the Down command (value "1")	
Long push reaction	No reaction Up Down Cyclical Up/Down Stop Cyclical Open/Close slats Open slats Close slats
Here an adjustment is made to define which movement command is written into the storage cell of the communication object and sent after long pressing the push button related to the channel. "No reaction": action does not change the object value and also does not send a telegram. Up: a long push action send is transferred into the communication object the Up command (value "0") Down: a long push action send the Down command (value "1") Cyclical Up / Down: each short push send the following sequence commands: Up, Down, Up, Down,,etc. Stop : a long push action send the stop command (value "1" or "0") Cyclical Open /Close slats : each short push send the following sequence commands : Open slats, Close slats, Open slats, Close slats Open slats: a long push action send is transferred into the communication object the stop (open slats) command (value "0") Close slats: a long push action send is transferred into the communication object the stop (close slats) command (value "1")	
Long push release	No reaction Stop
Here an adjustment is made to define which value is written into the storage cell of the communication object and sent after releasing a long press on the push button related to the Channel. "No reaction": action does not change the object value and also does not send a telegram. Stop : the stop command (value "1" or "0") is transferred into the communication object and sent	

10. COMMUNICATION OBJECTS DESCRIPTION (CONTINUED)

Scenario :
This function allows to recall/save up to 64 scene.
A short push recalls the scene and a special long push (10s) allows to save a scene; for the defined scene number all the involved actuators statuses are saved.

No.	Object name	Function	Size	Flags
5 (12,19,26)	Channel 1 (2,3,4) Action 1	8-bits scene	17.001 DP_SceneNumber (1 Byte)	CT
The telegrams to recall the scene with the configured number (1..64) are sent via the group address link with this object.				



Mode 1

Parameters	Setting
Scene num. on short push	0..64
This parameters determines which scene (1..64) has to be recalled on rising edge when mode 1 is active If value "0" is set, no scene is going to be recalled	

Mode 2

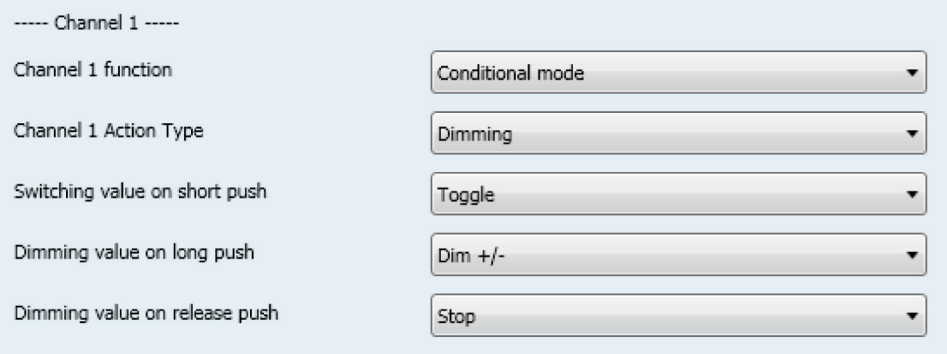
Parameters	Setting
Scene num. on short push	0..64
This parameters determines which scene (1..64) has to be recalled on rising edge when mode 2 is active If value "0" is set, no scene is going to be recalled	

Dimming :

No.	Object name	Function	DP	Flags
2 (9,16,23)	Channel 1 (2,3,4) Mode 1	Switching	1.01 DP_Switch (1 bit)	CWT
Switching telegrams are sent via the group address linked with this object.				
7 (14,21,28)	Channel 1 (2,3,4) Mode 1	Value Status	5.001 DP_Scaling (1 Byte)	CW
The dimming status telegrams are received from the dimming actuator via the group address linked with this object.				
42 (44,46,48	Channel 1 (2,3,4) Mode 2	Switching	1.01 DP_Switch (1 bit)	CWT
Switching telegrams are sent via the group address linked with this object.				
6 (13,20,27)	Channel 1 (2,3,4) Mode 1	Dimming	3.007 DP_Control_Dimming (4 bit)	CT
The dimming telegrams are sent to the dimming actuator via the group address linked with this object.				
43 (45,47,49)	Channel 1 (2,3,4) Mode 2	Dimming	3.007 DP_Control_Dimming (4 bit)	CT
The dimming telegrams are sent to the dimming actuator via the group address linked with this object.				

10. COMMUNICATION OBJECTS DESCRIPTION (CONTINUED)

Dimming (continued):



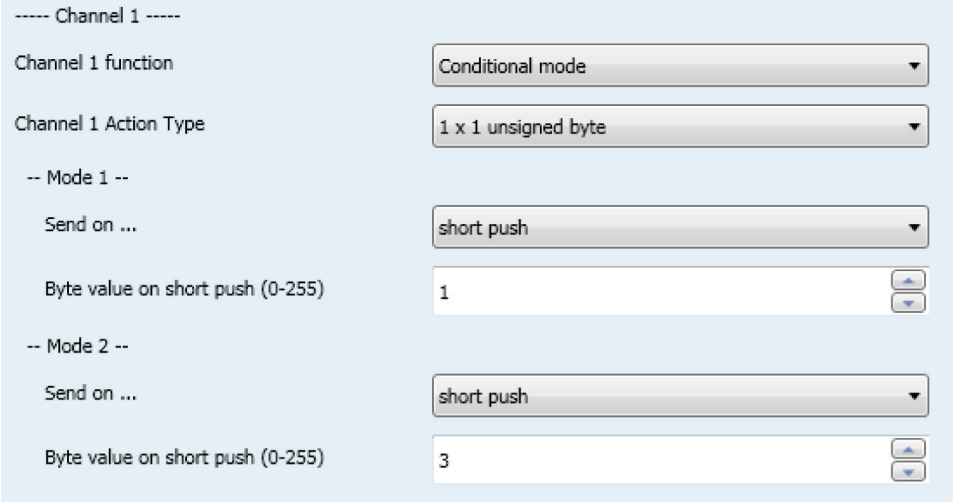
Parameters	Setting
Switching value on short push	No reaction On Off Toggle
Here an adjustment is made to define which switching value is written into the storage cell of the communication object and sent after short pressing the push button related to the channel. "No reaction": A short push does not change the object value and also does not send a telegram. "On": After a short press, the switching value "ON" (binary value, "1") is transferred into the communication object and sent. "Off": After a short press, the switching value "OFF" (binary value,"0") is transferred into the communication object and sent. "Toggle" : After a short press, 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
Here an adjustment is made to define which dimming value is written into the storage cell of the communication object and sent after long pressing 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 press, the dimming value stored in the communication object is inverted and the new value is sent "Dim +" After a long press, the dimming value "Increase 100%" is transferred into the communication object and sent. "Dim -" : After a long press, the dimming value "Decrease 100%" is transferred into the communication object and sent.	
Dimming value on release push	No reaction Stop
Here an adjustment is made to define which dimming value is written into the storage cell of the communication object and sent after releasing a long press of the push button related to the Channel. "No reaction": A long push button action 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.	

1x1 unsigned byte :

No.	Object name	Function	Size	Flags
5 (12,19,26)	Channel 1 (2,3,4) Mode 1	Unsigned Value	5.010 DP_Value_1_Ucount (1 Byte)	CT
The telegrams with the unsigned value are sent via the group address linked with this object				
42 (44,46,48)	Channel 1 (2,3,4) Mode 2	Unsigned Value	5.010 DP_Value_1_Ucount (1 Byte)	CT
The telegrams with the unsigned value are sent via the group address linked with this object				

10. COMMUNICATION OBJECTS DESCRIPTION (CONTINUED)

1x1 unsigned byte (continued):



Mode 1

Parameters	Setting
Send on…	Short push Long push
Here an adjustment is made to define the length of push to send the byte value.	
Byte value on short push (0-255)	0..255, 1
Here an adjustment is made to define which unsigned-8 bits value is written into the storage cell of the communication object and sent after a rising edge in the signal status of the channel (input). The rising edge corresponds to a change in the signal status of the Channel from logical "0" to "1", when the mode 1 is active.	

Mode 2

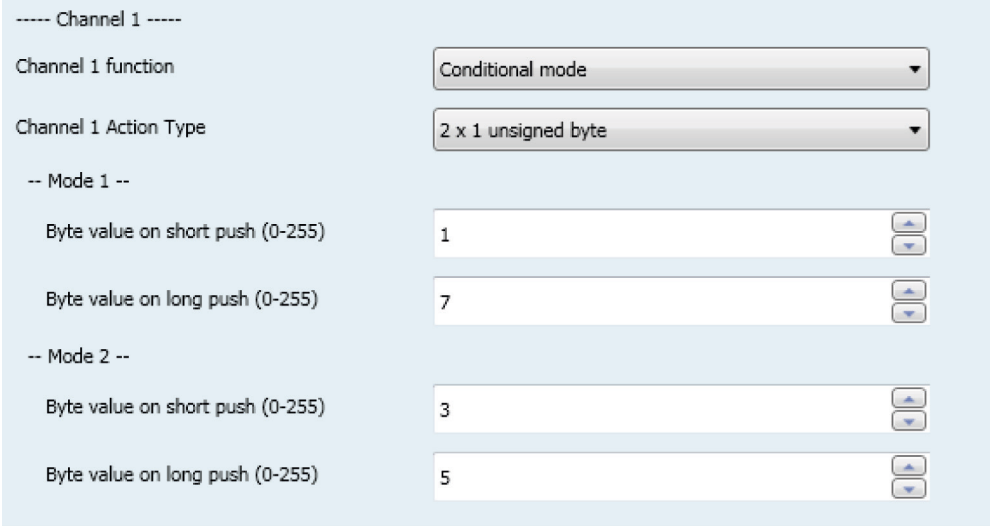
Parameters	Setting
Send on…	Short push Long push
Here an adjustment is made to define the length of push to send the byte value.	
Byte value on short push (0-255)	0..255, 1
Here an adjustment is made to define which unsigned-8 bits value is written into the storage cell of the communication object and sent after a rising edge in the signal status of the channel (input). The rising edge corresponds to a change in the signal status of the Channel from logical "0" to "1", when the mode 2 is active.	

2x1 unsigned byte :

No.	Object name	Function	Size	Flags
5 (12,19,26)	Channel 1 (2,3,4) Mode 1	Unsigned Value	5.010 DP_Value_1_Ucount (1 Byte)	CT
The telegrams with the unsigned value are sent via the group address linked with this object				
42 (44,46,48)	Channel 1 (2,3,4) Mode 2	Unsigned Value	5.010 DP_Value_1_Ucount (1 Byte)	CT
The telegrams with the unsigned value are sent via the group address linked with this object				

10. COMMUNICATION OBJECTS DESCRIPTION (CONTINUED)

2x1 unsigned byte (continued):



Mode 1

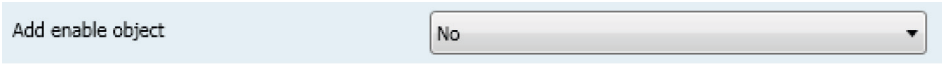
Parameters	Setting
Byte value on short push (0-255)	0..255, 1
Here an adjustment is made to define which unsigned 8 bits value is written into the storage cell of the communication object and sent after short pressing of the push button related to the channel, when the mode 1 is active.	
Byte value on long push (0-255)	0..255, 0
Here an adjustment is made to define which unsigned value is written into the storage cell of the communication object and sent after long pressing the push button related to the channel, when the mode 1 is active.	

Mode 2

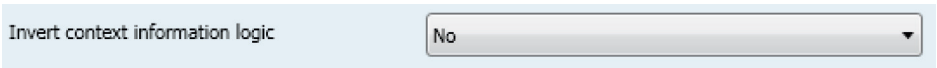
Parameters	Setting
Byte value on short push (0-255)	0..255, 1
Here an adjustment is made to define which unsigned value is written into the storage cell of the communication object and sent after short pressing the push button related to the channel, when the mode 2 is active.	
Byte value on long push (0-255)	0..255, 0
Here an adjustment is made to define which unsigned value is written into the storage cell of the communication object and sent after long pressing the push button related to the channel, when the mode 2 is active.	

10.2.1.11 Add Enable object

No.	Object name	Function	Size	Flags
4 (11,18,25)	Channel 1 (2,3,4)	Enable	1.02 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 channel. They are only visible if "Add Enable object" parameter value is set to "yes".				



10.2.1.12 Invert context information logic



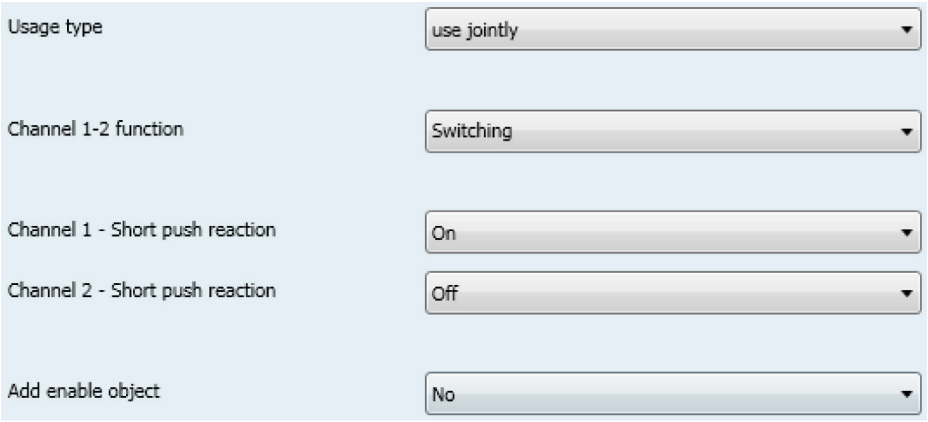
Invert context information logic	Yes / No
This parameter determines the type of logic of context information.	

10. COMMUNICATION OBJECTS DESCRIPTION (CONTINUED)

■ 10.2.2 Use Jointly

10.2.2.1 Switching

No.	Object name	Function	Size	Flags
2 (16)	Channel 1-2 (3-4)	Switching	1.01 DP_Switch (1 bit)	CWT
Switching telegrams are sent via the group address linked with this object				
3 (17)	Channel 1-2 (3-4)	Switching Status	1.01 DP_Switch (1 bit)	CW
Switching status are received via the group address linked with this object.				
4 (18)	Channel 1-2 (3-4)	Enable	1.02 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 "Add Disable object" parameter value is set to yes.				

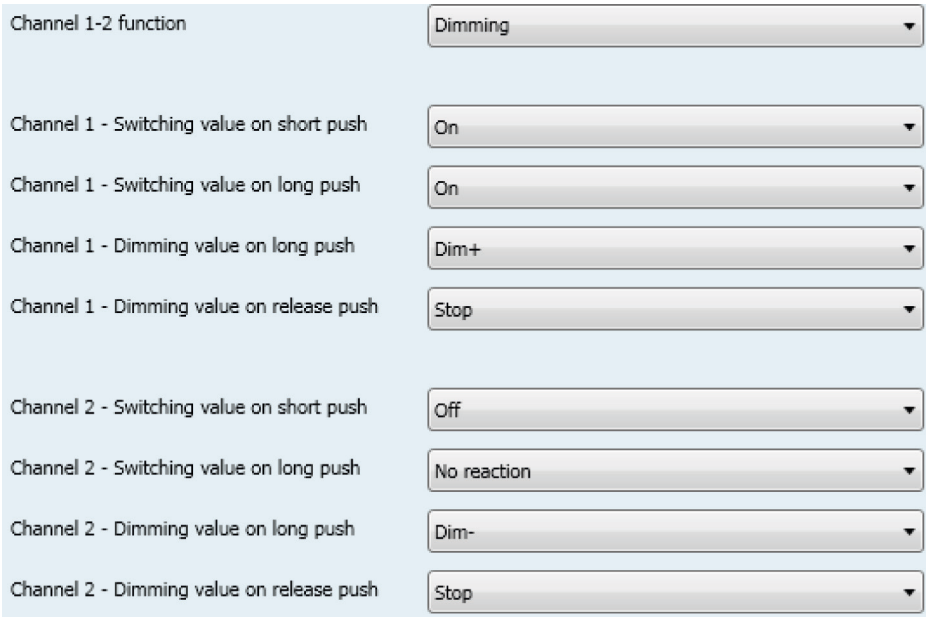


Parameters	Setting
Channel Xn - Short push reaction	No reaction On Off Toggle
Here an adjustment is made to define which switching value is written into the storage cell of the communication object and sent after short pressing the push button related to the channel. "No reaction": A short push does 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	
Channel Xn+1 - Short push reaction	No reaction On Off Toggle
Here an adjustment is made to define which switching value is written into the storage cell of the communication object and sent after short pressing 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 if 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.	

10. COMMUNICATION OBJECTS DESCRIPTION (CONTINUED)

10.2.2.2 Dimming

No.	Object name	Function	Size	Flags
2 (16)	Channel 1-2 (3-4)	Switching	1.01 DP_Switch (1 bit)	CWT
Switching telegrams are sent via the group address linked with this object				
6 (20)	Channel 1-2 (3-4)	Dimming	3.007 DP_Control_Dimming (4 bit)	CT
Dimming telegrams are sent via the group address linked with this object				
7 (21)	Channel 1-2 (3-4)	Value Status	5.001 DP_Scaling (1 byte)	CW
The dimming status telegrams are received from the dimming actuator via the group address linked with this object.				
4 (18)	Channel 1-2 (3-4)	Enable	1.02 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 "Add Enable object" parameter value is set to "yes".				



Parameters	Setting
Channel X - Switching value on short push	No reaction On Off Toggle
Here an adjustment is made to define which switching value is written into the storage cell of the communication object and sent after short pressing 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
Here an adjustment is made to define which switching value is written into the storage cell of the communication object and sent after long pressing 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 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
Here an adjustment is made to define which dimming value is written into the storage cell of the communication object and sent after long pressing of 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.	

10. COMMUNICATION OBJECTS DESCRIPTION (CONTINUED)

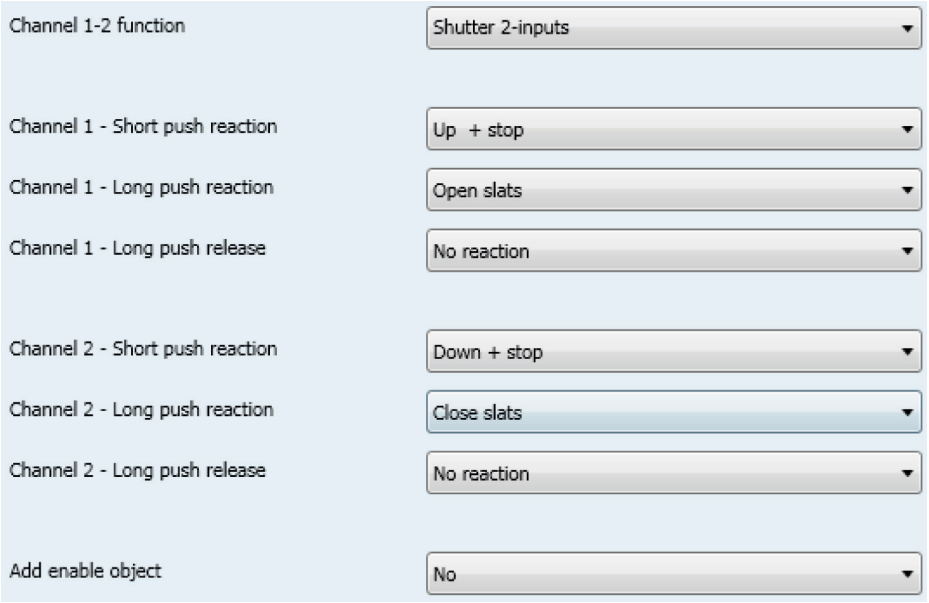
10.2.2.2 Dimming (continued)

Parameters	Setting
Channel X - Dimming value on release push	No reaction Stop
Here an adjustment is made to define which dimming value is written into the storage cell of the communication object and sent when long pressing the push button related to the Channel. "No reaction": A long push button action 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 On Off Toggle
Here an adjustment is made to define which switching value is written into the storage cell of the communication object and sent after short pressing the push button related to the channel. "No reaction": A short push does not change the object value and also does 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
Here an adjustment is made to define which switching value is written into the storage cell of the communication object and sent after long pressing 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": An long push button action, 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
Here an adjustment is made to define which dimming value is written into the storage cell of the communication object and sent after long pressing of 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
Here an adjustment is made to define which dimming value is written into the storage cell of the communication object and sent when long pressing the push button related to the Channel. "No reaction": A long push button action 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.	
Add Enable object	Yes / No
The parameter determines if the channels 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.	

10. COMMUNICATION OBJECTS DESCRIPTION (CONTINUED)

10.2.2.3 Shutter 2-input

No.	Object name	Function	Size	Flags
2 (16)	Channel 1-2 (3-4)	Shutter Up/Down	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)	Channel 1-2 (3-4)	Shutter Stop - slats	1.009 DP_OpenClose (1 bit)	CWT
The command "STOP" or "Slats OPEN/CLOSE" are sent via the group address linked with this object.				
7 (21)	Channel 1-2 (3-4)	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.				
4 (18)	Channel 1-2 (3-4)	Enable	1.03 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 "Add Enable object " parameter value is set to yes.				



10. COMMUNICATION OBJECTS DESCRIPTION (CONTINUED)

10.2.2.3 Shutter 2-input (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
Here an adjustment is made to define which movement command is written into the storage cell of the communication object and sent after short pressing the push button related to the channel. "No reaction": actions do not change the object value and also does not send a telegram. Cyclical Up / Down + stop : each short push transfers the following sequence command values into the communication object: Up, Stop, Down, Stop, Up, Stop, Down, Stop,etc. Up + stop : each short push transfers the following sequence command values into the communication object: Up, Stop, Up, Stop,,etc. Down + stop : each short push transfers the following sequence command values into the communication object: Up, Stop, Up, Stop,,etc. Cyclical Up / Down: each short push transfers the following sequence command values into the communication object : Up, Down, Up, Down,,etc. Stop : a short push transfers into the communication object the stop command value ("1" or "0") Open slats: a short push transfers into the communication object the stop (open slats) command value ("0") Close slats: a short push transfers into the communication object the stop (close slats) command value ("1") Up: a short push transfers into the communication object the Up command (value "0") Down: a short push transfers into the communication object the Down command (value "1")	
Channel X - Long push reaction	No reaction Up Down Cyclical Up/Down Stop Cyclical Open/Close slats Open slats Close slats
Here an adjustment is made to define which movement command is written into the storage cell of the communication object and sent after long pressing 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 action send is transferred into the communication object the Up command (value "0") Down: a long push action send the Down command (value "1") Cyclical Up / Down: each short push send the following sequence commands: Up, Down, Up, Down,,etc. Stop : a long push action send the stop command (value "1" or "0") Cyclical Open /Close slats : each short push send the following sequence commands : Open slats, Close slats, Open slats, Close slats Open slats: a long push action send is transferred into the communication object the stop (open slats) command (value "0") Close slats: a long push action send is transferred into the communication object the stop (close slats) command (value "1")	
Channel X - Long push release	No reaction Stop
Here an adjustment is made to define which value is written into the storage cell of the communication object and sent a long press 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	

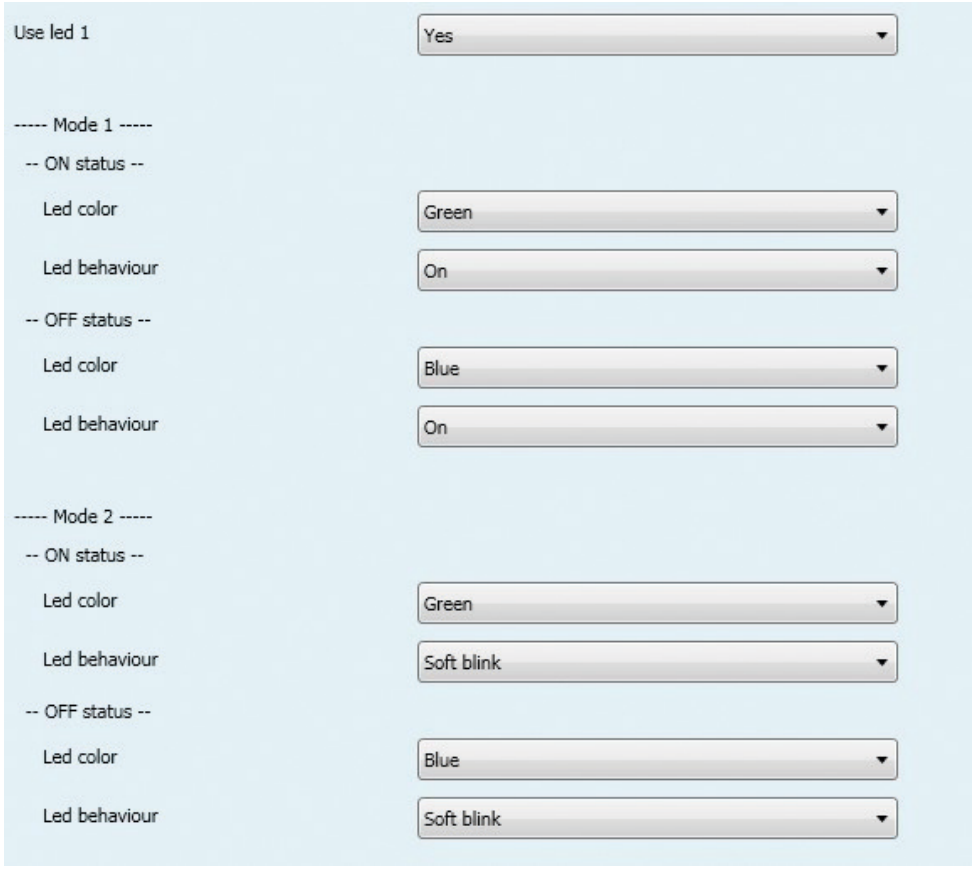
10. COMMUNICATION OBJECTS DESCRIPTION (CONTINUED)

10.2.2.3 Shutter 2-input (continued)

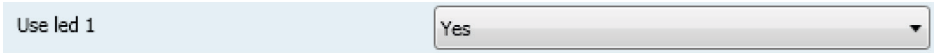
Parameters	Setting
Channel X +1 - Short push reaction	No reaction Cyclical Up / Down + stop Up + stop Down + stop Cyclical Up / Down Stop Open slats Close slats Up Down
Here an adjustment is made to define which movement command is written into the storage cell of the communication object and sent after short pressing 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 command values into the communication object: Up, Stop, Down, Stop, Up, Stop, Down, Stop,etc. Up + stop : each short push transfers the following sequence command values into the communication object: Up, Stop, Up, Stop,,etc. Down + stop : each short push transfers the following sequence command values into the communication object: Up, Stop, Up, Stop,,etc. Cyclical Up / Down: each short push transfers the following sequence command values into the communication object : Up, Down, Up, Down,,etc. Stop : a short push transfers into the communication object the stop command value ("1" or "0") Open slats: a short push transfers into the communication object the stop (open slats) command value ("0") Close slats: a short push transfers into the communication object the stop (close slats) command value ("1") Up: a short push transfers into the communication object the Up command (value "0") Down: a short push transfers into the communication object the Down command (value "1")	
Channel X +1 - Long push reaction	No reaction Up Down Cyclical Up/Down Stop Cyclical Open/Close slats Open slats Close slats
Here an adjustment is made to define which movement command is written into the storage cell of the communication object and sent after long pressing 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 action send is transferred into the communication object the Up command (value "0") Down: a long push action send the Down command (value "1") Cyclical Up / Down: each short push send the following sequence commands: Up, Down, Up, Down,,etc. Stop : a long push action send the stop command (value "1" or "0") Cyclical Open /Close slats : each short push send the following sequence commands : Open slats, Close slats, Open slats, Close slats Open slats: a long push action send is transferred into the communication object the stop (open slats) command (value "0") Close slats: a long push action send is transferred into the communication object the stop (close slats) command (value "1")	
Channel X - Long push release	No reaction / Stop
Here an adjustment is made to define which value is written into the storage cell of the communication object and sent a long press 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 if the Channels (1-2 or 3-4) can be blocked via an additional Enable object or not. If the Channels are (1-2 or 3-4) is blocked (Enable value = 1) the status changes of these channels are not transmitted.	

10. COMMUNICATION OBJECTS DESCRIPTION (CONTINUED)

10.3 LEDs configuration



Use led X



Use led X	Yes / No
The parameter determines if the led X is used or not (it depend if the rockers has light diffuser).	

Mode1
ON status

Led color	Green Blue White Orange Gold Yellow Turquoise Cyan Light blue Violet Pink Purple
The parameter determines the color of led X for ON status in Mode 1	
Led behaviour	Off On Slow blink Fast blink Soft blink Flash 1 Flash 2 Flash 3
The parameter determines the behaviour of led X for ON status in Mode 1	

10. COMMUNICATION OBJECTS DESCRIPTION (CONTINUED)

Mode1 (continued)
OFF status

Led color	Green Blue White Orange Gold Yellow Turquoise Cyan Light blue Violet Pink Purple
The parameter determines the color of led X for OFF status in Mode 1	
Led behaviour	Off On Slow blink Fast blink Soft blink Flash 1 Flash 2 Flash 3
The parameter determines the behaviour of led X for OFF status in Mode 1	

Mode2
ON status

Led color	Green Blue White Orange Gold Yellow Turquoise Cyan Light blue Violet Pink Purple
The parameter determines the color of led X for ON status in Mode 2	
Led behaviour	Off On Slow blink Fast blink Soft blink Flash 1 Flash 2 Flash 3
The parameter determines the behaviour of Led X for ON status in Mode 2	

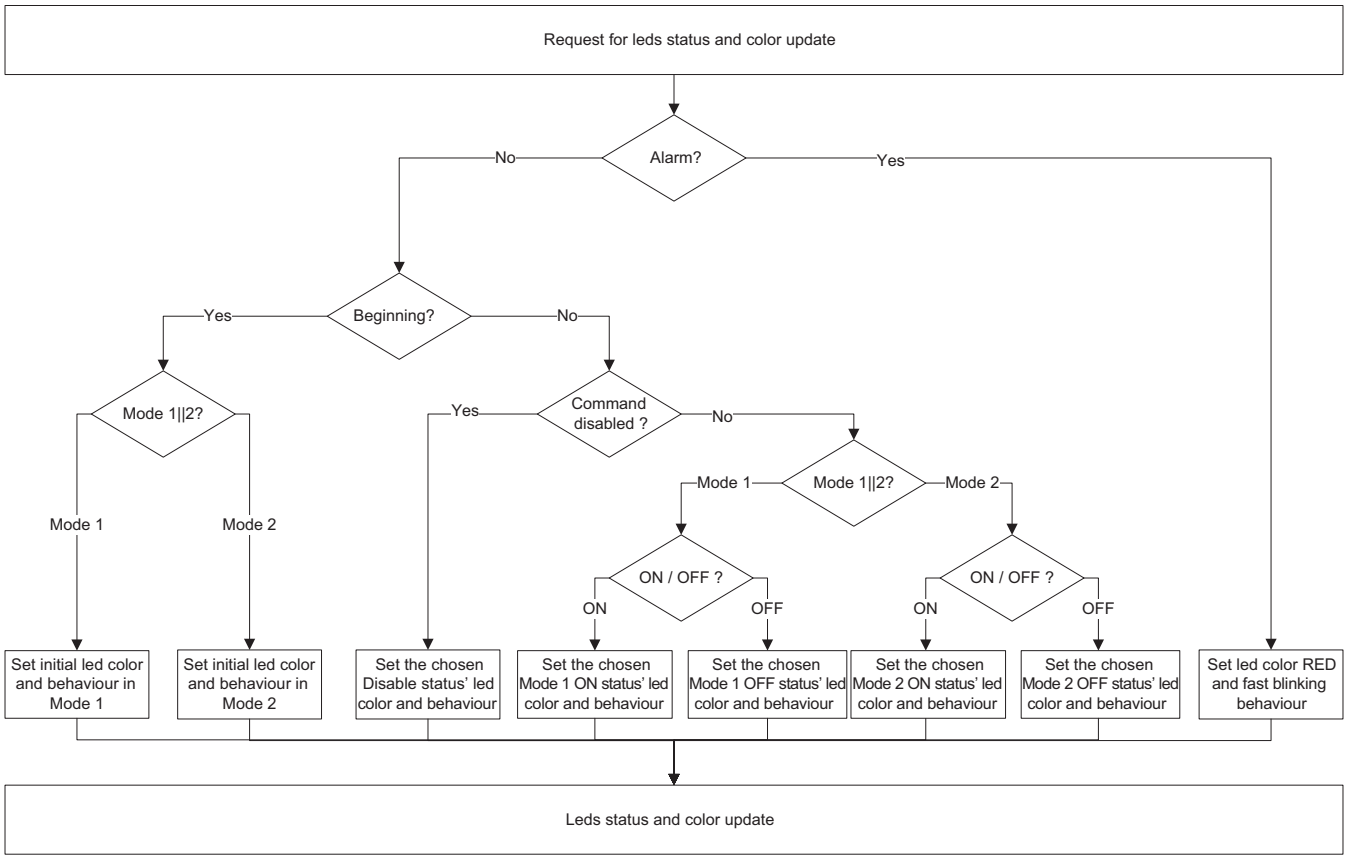
10. COMMUNICATION OBJECTS DESCRIPTION (CONTINUED)

Mode2 (continued)
OFF status

Led color	Green Blue White Orange Gold Yellow Turquoise Cyan Light blue Violet Pink Purple
The parameter determines the color of led X for OFF status in Mode 2	
Led behaviour	Off On Slow blink Fast blink Soft blink Flash 1 Flash 2 Flash 3
The parameter determines the behaviour of Led X for OFF status in Mode 2	

10.4 LEDs color and behaviour updating flowchart

The led color and behaviour changings are performed when :
- Is received an object of : Status, Alarm, Function, Enable.
- Is pushed a button : in shutter mode, 8-bits scene control, priority, counting, 1x1unsigned byte, 2x1 unsigned byte or if context information are active.

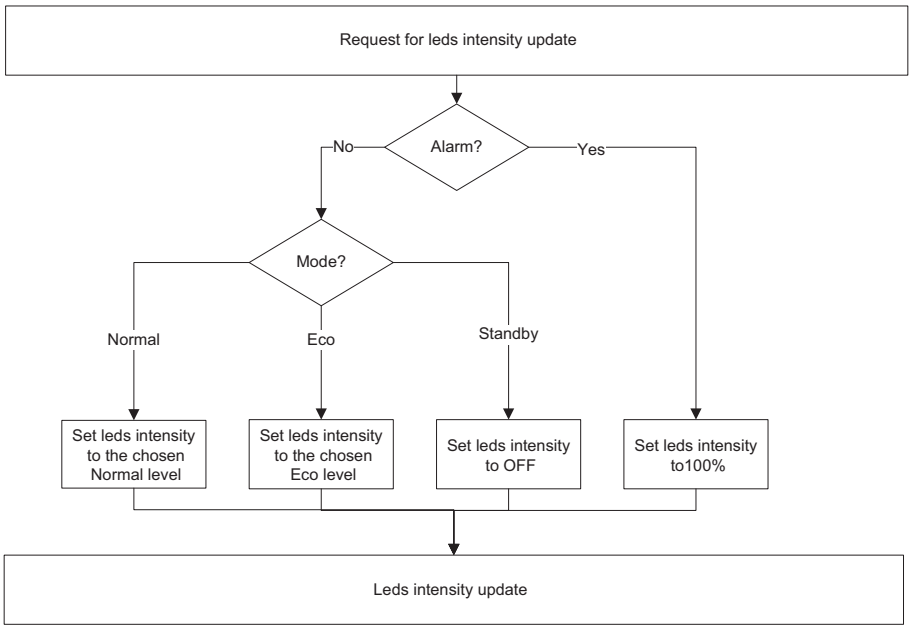


10. COMMUNICATION OBJECTS DESCRIPTION (CONTINUED)

10.5 LED intensity update flowchart

The leds intensity changings are perfomed when :
- Is received an object of : Standby, Eco mode, Normal mode, Eco/Normal, Alarm
- Is pressed a push-button.

After Standby or Alarm mode the level is set to the previous level (Normal/Eco).
Standby mode is disables if any button is pressed.

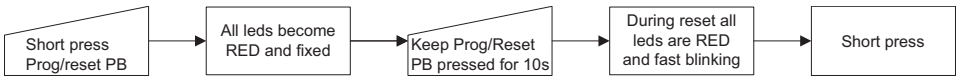


10 .6 No configuration status and reset procedure

Product not yet configured

The product has no physical address and no group addresses associated.
The leds change colors randomly every 200ms.

Reset procedure



Nota : when in programming mode (RED and fixed leds) there are 30min before timing out.