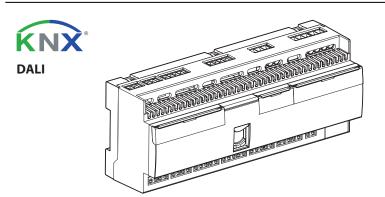


KNX multiapplication controller 16 outputs



1. Use 2. Technical features 3. Dimensions 4. Connection	g
5. Operation	
7. Maintenance	

1. USE

The KNX multi-application modular controller has been specially designed to meet requirements for control in hotel rooms and meeting rooms.

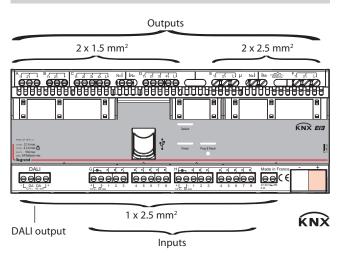
It comprises

- 16 binary outputs that can be configured to control lighting (2 blocks of 4 relays: 4.3 A max. to be distributed in each of the blocks), blinds (2 blocks of 2 relays: 2.1 A max. to be distributed in each of the blocks) and power sockets (2 blocks of 2 relays: 16 A max. to be distributed in each of the blocks). Each output can be part of 5 scenarios and 3 different modes. 4 separate current measurements are incorporated.
- 16 configurable auxiliary inputs for ON/OFF, Dim +/-, scene and raise/ lower/stop commands for roller blinds via switches, pushbuttons or other volt-free contact devices.
- One DALI dimming output:
- In broadcast mode

The DALI output can supply up to 20 ballasts (max. bus consumption 40 mA) or up to 64 ballasts with the addition of an external DALI power supply.

 Functions for creating scenarios and advanced logic functions: 3 logic "blocks" for sending a command according to 3 conditions and 3 other "program blocks" for sending 5 different actions on 1 command.

2. TECHNICAL FEATURES

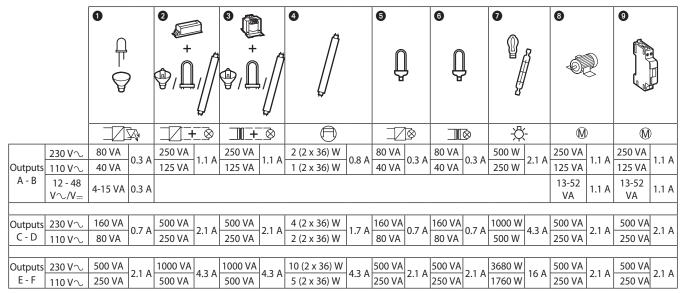


Important: Neutral terminals necessary for:Synchronisation with the mains power supplyMeasurement of energy consumption

2. TECHNICAL FEATURES (CONTINUED)

Device power supply	27-50 V√/ 6 W
Terminal type	Screw
Number of load terminals	(A - B: 2.1 A blocks
	16 outputs C - D: 4.3 A blocks
	E - F: 16 A blocks
Number of auxiliary input terminals	16 inputs (G - H: 8-input blocks)
Capacity of the load terminals	2 x 1.5 mm ² (A to D)
	2 x 2.5 mm ² (E to F)
Capacity of the DALI load terminals	1 x 2.5 mm ²
Capacity of the auxiliary input terminals	1 x 2.5 mm ²
KNX connection	0.6 to 0.8 mm ²
Contact type	Bistable relay (blocks E & F), monostable relay (blocks A, B, C & D)
Location category	Indoor
Degree of protection	IP 20
Penetration by solid and	(installation in an enclosure)
liquid matter	
Impact resistance	IK 04
Number of modules	12
Usage temperature	-5°C to +45°C
Storage temperature	-20°C to +70°C
No-load power consumption	< 1 W
KNX/BUS absorption	5 mA
Weight	387 g

2. TECHNICAL FEATURES (CONTINUED)



- ♠ LED bulbs
- 2 ELV halogen, compact fluorescent and fluorescent bulbs with separate electronic ballast
- 3 ELV halogen, compact fluorescent and fluorescent bulbs with separate ferromagnetic ballast
- 4 Fluorescent tubes

- Compact fluorescent bulbs with built-in electronic ballast
- 6 Compact fluorescent bulbs with built-in ferromagnetic ballast
- Halogen bulbs
- 8 Motors
- Contactors

Power supply unit

The device must be powered by an external power supply. Permitted voltage range: 27 to 50 V √/=, 6 W min.

Power outputs

- -Blocks A and B (2 blocks of 2 relays: 2.1 A max. to be distributed in each of the blocks).
- For roller blind control functions, exclusive signs (e.g. Do not disturb/Room service) and ON/OFF functions (for AC or DC load).
- -Blocks C and D (2 blocks of 4 relays: 4.3 A max. to be distributed in each of the blocks).

For controlling 4 separate loads per block. Each block includes energy measurement.

-Blocks E and F (2 blocks of 2 relays: 16 A max. to be distributed in each of the blocks).

For controlling 2 separate loads per block. Each block includes energy measurement.

DALI output

For controlling 64 DALI ballasts in Broadcast mode. Pairing between the device and the DALI output is not necessary.

The DALI BUS power supply is incorporated in the device. Imax 40 mA/12 $V_{=}$ (20 ballasts max). If I is greater than 40 mA, use an external power supply (remove the jumpers from the DALI terminals).

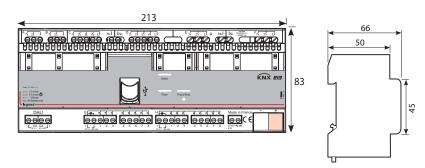
Control inputs

- Blocks G and H.

The device has 2 blocks each one having power supply output ($12 V_{=}$) and 8 auxiliary inputs. Switches or pushbuttons can be connected to the inputs in order to send ON/OFF, dimming, shutter raising/lowering or scenario control commands, their settings can be configured using the ETS configuration software. The power supply enables the controls to have pilot lights (standby).

3. DIMENSIONS

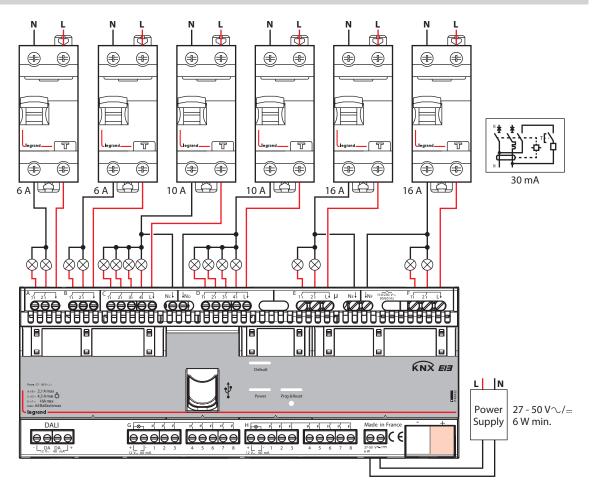
Technical data sheet: S000074637EN-6



Created: 15/04/2014 **L7 legrand**

4. CONNECTION

• Single phase



4. CONNECTION (CONTINUED) • Single phase (I) (H) 30 mA 30 mA 30 mA 1 1 1 1 1 1 (#)(#) N **+** 10 A 10 A 16 A 16 A KNX EI3 L N Power 27 - 50 V √/= Supply 6 W min. 9999 20 max I < 40 mA DA DA + G/H-⊗¬ DALI BUS 64 max I > 40 mADA DA 16 V_{...} supply ≤ 100 m DALI BUS ≤ 150 m 0.75 mm² ≤ 300 m

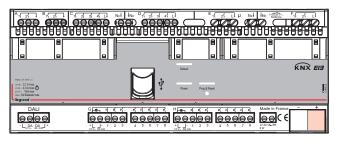
The room controller has a 12 V - 128 mA power supply for the DALI output. With the jumpers connected, it can power the DALI BUS.

4. CONNECTION (CONTINUED) • Three-phase rda Ħ d (T) **(11) ((11) ((** 30 mA 30 mA 1 1 1 1 1 1 1 1 1 1 1 1 10 A 10 A 16 A 16 A KNX EI3 27 - 50 V √/= Power 6 W min. Supply 999 D I < 40 mA G/H-⊗ DALI BUS 🕽 64 max I > 40 mA..... DA DA 16V₌ supply ≤ 100 m 0.5 mm² ≤ 150 m 0.75 mm² DALI BUS ≤ 300 m 1.5 mm²

The room controller has a 12 V - 128 mA power supply for the DALI output. With the jumpers connected, it can power the DALI BUS.

5. OPERATION

All device settings must be done using the ETS software tool (version 3f or later).



Power LED Power

- ON steady: an ETS application is programmed
- Flashing in 3-flash cycles: default settings (no ETS application programmed)
- Flashing in 1-flash cycles: the device is initialising
- OEE.
- USB not connected: the device is not powered by the external power supply.
- USB connected and device powered: the device is awaiting a software update

"Fault" LED Default

- ON: indicates a fault. The device must be restarted by switching the power off and then back on.
- . - Flashing: the device is "busy". Do not switch off the power supply
- OFF: no faul

Programming & Reset LED Prog & Reset

- OFF: the device is not in programming mode.
- Short press (less than 1 second):
- On steady: the device is in programming mode and the KNX cable is correctly connected/powered
- Flashing (1 cycle of 3 flashes): the KNX cable is not correctly connected/powered. The device is not in programming mode
- Short press (less than 1 second) + long press (10 seconds): restoration of default settings. All the LEDs flash during the reset phase

USB (do not use)

Reserved for firmware update by the manufacturer.

Default settings (without ETS configuration)

Outputs A and B are configured by default for roller blind operation (30 s time delay). Outputs C1 to F2 are configured by default for ON/OFF with no time delay.

Inputs G1 to H8 are configured by default for switch operation.

The actions of the default settings are defined in the table below.

Inputs	G1	G2	G3	G4	G5	G6	G7	G8	H1	H2	H3	H4	H5	H6	H7	H8
Outputs	A1/A2	B1/B2	C1	C2	C3	C4	D1	D2	D3	D4	E1	E2	F1	F2	DALI	DALI
Action	UP/	UP/	ON/	100%/	100%/											
	DOWN	DOWN	OFF	OFF												

6. STANDARDS AND APPROVALS

- Conforme: CE
- Product standards: IEC 60669-2-1
- Environmental standards:
- EU directive 2002/96/EC:
- WEEE (Waste Electrical and Electronic Equipment)
- EU directive 2002/95/EC:
- RoHS (Restriction of Hazardous Substances)
- Regulations: ERP (public buildings)

ERT (workplace buildings)

IGH (high-rise buildings)

• KNX certificate n° 11/11130/13

7. MAINTENANCE

Do not use acetone, tar-removing cleaning agents or trichloroethylene.

Resistant to the following products: - Hexane (En 60669-1)

- Methylated spirit
- Soapy water
- Diluted ammonia
- Bleach diluted to 10%
- Window-cleaning products

Caution: Always test before using other special cleaning products.

8. COMMUNICATION OBJECTS

8.1 Inputs

Inputs can each be used as "Inputs, separately configurable" or as "Inputs, jointly configurable". According to this setting the available functions and objects change.

8.1.1 Use separately

Not used

Input is not usable, no accessible communication objects

Switching

Usage	Use separately	•
G1 : Main function	Switching	•

The following objects are automatically inserted:

No.	Object name	Function	Size	Flags
2	Input G(,H)1 (2 → 8)	Switching	1.001 DPT_	CWT
(9, 16, 23,			Switch	
30, 37, 44,				
51, 58, 65,				
72, 79, 86,				
93, 100,				
107)				
Switching	telegrams are sent via	the group add	ress linked wit	h this
object				
3	Input G(,H)1 (2 \rightarrow 8)	Switching	1.001 DPT_	CW
(10, 17,		Status	Switch	
24, 31, 38,				
45, 52, 59,				
66, 73, 80,				
87, 94,				
101, 108)				

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

They are only visible if "Add status object" parameter value is set to yes.

Tricy are o	illy visible il Add statu	3 Object paran	neter value is s	et to yes.
4	Input G(,H)1 (2 → 8)	Enable	1.003 DPT_	CW
(11, 18,			Enable	
25, 32, 39,				
46, 53, 60,				
67, 74, 81,				
88, 95,				
102, 109				

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

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

Switch

Usage	Use separately	•
G1 : Main function	Switching	•
Function	Switch	•
Switching value when contact is closed	On	•
Switching value when contact is opened	Off	•
Add Status Object	No	•
Contact type	Normally open contact	•
Add enable object	No	•

This function is used, for binary inputs to which a switch button is attached, to send a switching telegram (ON, OFF or TOGGLE) as a reaction to a rising and / or falling signal edge at this input. Each time the push button is pressed and / or released resp. the contact is closed and / or opened a telegram is sent, i.e. this function can be used e.g. to implement the behavior of a bell switch.

Technical data sheet: S000074637EN-6

Parameters	Setting
Switching value when contact is closed	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 rising edge in the signal status at the channel (input). The rising edge corresponds to a change in the signal status at the input from logical "0" to "1".

"No reaction": An edge change at the input does not change the object value and also does not send a telegram.

"On": In the event of a rising edge the switching value "ON" (binary value, "1") is transferred into the communication object and sent.

"Off": In the event of a rising edge the switching value "OFF" (binary value,"0") is transferred into the communication object and sent.

"Toggle": In the event of a rising edge, the switching value stored in the communication object is inverted and the new value is sent

the communication object is inverted and the new value is sent.					
Switching value when contact is	No reaction				
opened	On				
	Off				
	Togale				

Here an adjustment is made to define which switching value is written into the storage cell of the communication object and sent after a falling edge in the signal status at the channel (input). The falling edge corresponds to a change in the signal status at the input from logical "1" to "0".

"No reaction": An edge change at the input does not change the object value and also does not send a telegram.

"On": In the event of a rising edge the switching value "ON" (binary value, "1") is transferred into the communication object and sent. "Off": In the event of a rising edge the switching value "OFF" (binary value,"0") is transferred into the communication object and sent. "Toggle": In the event of a rising edge, the switching value stored in the communication object is inverted and the new value is sent.

Add status object Yes / No

The parameter determines if an additional communication object (status) shall be used to perform toggle functionality or other purposes.

Contact type Normally open contact Normally closed contact

The contact type of the input connected to the channel is adjusted

"Normally open contact": the contact of the input is active when closed, inactive when opened.

"Normally closed contact": the contact of the input is active when opened, inactive when closed.

Add enable object Yes / No

The parameter determines if the input can be blocked via an additional Enable object or not. If an input is blocked (Enable value = 1) the status changes at this input are not transmitted.

• Push

Usage	Use separately	•
G1 : Main function	Switching	•
Function	Push	•
Short push reaction	Toggle	•
Long push reaction	No reaction	•
Long push action min.	2 seconds	•
Add Status Object	No	•
Contact type	Normally open contact	•
Add enable object	No	•

Created: 15/04/2014 **L7 legrand**

This function is used, for binary inputs to which a push button is attached, to send a switching telegram (ON, OFF or TOGGLE) as a reaction to a short or long push button action, i.e. this function can be used e.g. to recall a scene.

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 of the push attached to the input.

"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.

"Offf": 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 attached to the input.

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

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

"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.

meation object is inverted and the new value is sent.		
Long push action min.	0.5 second	
	1 second	
	2 seconds	
	3 seconds	
	4 seconds	
	5 seconds	
	10 seconds	
This parameter determines the minimum period for detecting a long		

push.

Add status object

Yes / No

The parameter determines if an additional communication object (sta-

tus) shall be used to perform toggle functionality or other purposes.

Contact type

| Normally open contact

Normally closed contact
The contact type of the input attached to the channel is adjusted here.
"Normally open contact": the contact of the input is active when closed, inactive when opened.

"Normally closed contact": the contact of the input is active when opened, inactive when closed.

Add enable object Yes / No

The parameter determines if the input can be blocked via an additional Enable object or not. If an input is blocked (Enable value = 0) the status changes at this input are not transmitted.

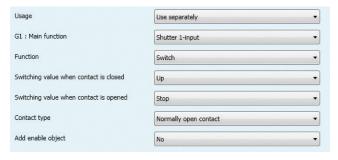
Shutter 1-input

No.	Object name	Function	Size	Flags
2	Input G(,H)1 (2 → 8)	Shutter Up/	1.008 DPT_	CWT
(9, 16, 23,		Down	UpDown	
30, 37, 44,				
51, 58, 65,				
72, 79, 86,				
93, 100,				
107)				
The mover	ment commands Up/D	own are sent v	ia the address	linked
with this o	bject in order to raise/	lower the solar	protection.	
8	Input G(,H)1 (2 → 8)	Shutter Stop	1.009 DPT_	CWT
(15, 22,		- slats	OpenClose	
29, 36, 43,				
50, 57, 64,				
71, 78, 85,				
92, 99,				
106, 113)				
The comm	and "STOP" or "Slats O	PEN/CLOSE" are	e sent via the g	roup
address lin	ked with this object.		·	
4	Input G(,H)1 (2 → 8)	Enable	1.003 DPT_	CW
(11, 18,			Enable	
25, 32, 39,				
46, 53, 60,				
67, 74, 81,				
88, 95,				
102, 109)				

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

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

Switch



This function allows using just one swich for moving a shutter up or down and to stop its motion. To achieve this a distinction is made between closed and open contact action.

Parameters	Setting
Switching value when contact is closed	No reaction
	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 a rising edge. The rising edge corresponds to a change in the signal status at the input from logical "0" to "1".

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

"Up": when the contact is active, the command UP is transferred into the communication object and sent.

"<u>Down</u>": when the contact is active, the command DOWN is transferred into the communication object and sent.

Switching value when conf	tact is	No reaction
opened		Stop

Here an adjustment is made to define which switching movement command is written into the storage cell of the communication object and sent after a falling edge in the signal status at the channel (input). The falling edge corresponds to a change in the signal status at the input from logical "1" to "0".

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

"Stop": when the contact is inactive, the command stop is transferred into the communication object and sent.

Contact type	Normal	y open contact
	Normall	y closed contact

The contact type of the input attached to the channel is adjusted here. "Normally open contact": the contact of the input is active when closed, inactive when opened.

"Normally closed contact": the contact of the input is active when opened, inactive when closed.

Add enable object Yes / No

The parameter determines if the input can be blocked via an additional Enable object or not. If an input is blocked (Enable value = 0) the status changes at this input are not transmitted.

• Push

Usage	Use separately ▼
G1 : Main function	Shutter 1-input
Function	Push
Short push reaction	Stop
Long push reaction	Cyclical Up/Down
Long push release	No reaction
Long push button action min.	2 seconds
Contact type	Normally open contact
Add enable object	No •

This function allows using just one push button for moving shutter up and down, stopping of the motion and opening and closing of the slats. To achieve this a distinction is made between short and long push action.

Technical data sheet: S000074637EN-6

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 a short press the push button attached to the input.

"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: 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, otc.

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 attached to the input.

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

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

Down: a long push action send the Down command (value "1") Cyclical Up / Down: each push sends only one telegram as toggle reaction depending on the previous value: Up, Down, Up, Down, etc. Stop: a long push action sends the stop command (value "1" or "0") Cyclical Open /Close slats: on each long push, the same telegram is sent every 800ms as long as the contact is closed (or opened, depending on the "Normally open/closed contact" parameters value). The value transferred into the communication object alternates between "Open" and "Close", depending on the previous value.

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

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

Parameters	Setting
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 after a long press.

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.

manication object and sent.		
Long push action min.	0.5 second	
	1 second	
	2 seconds	
	3 seconds	
	4 seconds	
	5 seconds	
	10 seconds	
This parameter determines the minimum period for detecting a long		

This parameter determines the minimum period for detecting a long push.

Add status object Yes / No

The parameter determines if an additional communication object (status) shall be used to realize toggle functionality or other purposes

Contact type Normally open contact
Normally closed contact

The contact type of the input attached to the channel is adjusted here. "Normally open contact": the contact of the input is active when closed, inactive when opened.

"Normally closed contact": the contact of the input is active when opened, inactive when closed.

Add enable object Yes / No

The parameter determines if the input can be blocked via an additional Enable object or not. If an input is blocked (Enable value = 0) the status changes at this input are not transmitted.

Eunction

Ciro

Flage

8-bits scene control

Object name

Technical data sheet: S000074637EN-6

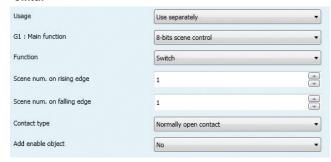
No

IVO.	Object name	runction	Size	riags
5	Input G(,H)1 (2 → 8)	8-bits scene	17.001	CT
(12, 19,			DPT_Scene-	
26, 33, 40,			Number	
47, 54, 61,				
68, 75, 82,				
89, 96,				
103, 110)				
The telegra	ams to recall the scene	with the confi	gured number	
(between '	l and 64) are sent via t	he group addre	ess link with th	is object.
4	Input G(,H)1 (2 \rightarrow 8)	Enable	1.003 DPT_	CW
(11, 18,			Enable	
25, 32, 39,				
46, 53, 60,				
67, 74, 81,				
88, 95,				
102, 109)				

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

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

Switch



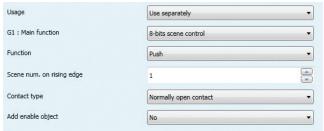
Using one button, the scene with the configured number (between 1 and 64) can be recalled via a short push.

If Scene number is set to the value "0", no scene is going to be recalled.

Parameters	Setting	
Scene num. on rising edge	1 → 64	
This parameters determines which scene	(between 1 and 64) is to be	
recalled on rising edge.		
If value "0" is set, no scene is going to be re	ecalled	
Scene num. on falling edge	1 → 64	
This parameters determines which scene (between 1 and 64) is to be		
recalled on falling edge		
If value "0" is set, no scene is going to be recalled		
Contact type Normally open contact		
	Normally closed contact	
The contact type of the input attached to the channel is adjusted here.		
"Normally open contact": the contact of the input is active when		
closed, inactive when opened.		
"Normally closed contact": the contact of the input is active when		
opened, inactive when closed.		

Add enable object Yes / No
The parameter determines if the input can be blocked via an additional
Enable object or not. If an input is blocked (Enable value = 0) the status
changes at this input are not transmitted.

Push



Using one button, the scene with the configured number (between 1 and 64) can be recalled via a short push. If Scene number is set to the value "0", no scene is going to be recalled.

Parameters	Setting
Scene num. on rising edge	1 → 64
This parameter determines which scene (but recalled on rising edge.	petween 1 and 64) is to be
If value "0" is set, no scene is going to be re	ecalled.
Contact type	Normally open contact
	Normally closed contact

The contact type of the input attached to the channel is adjusted here. "Normally open contact": the contact of the input is active when closed, inactive when opened.

"Normally closed contact": the contact of the input is active when opened, inactive when closed.

Add enable object Yes / No

The parameter determines if the input can be blocked via an additional Enable object or not. If an input is blocked (Enable value = 0) the status changes at this input are not transmitted.

Priority

No.	Object name	Function	Size	Flags
5	Input G(,H)1 (2 → 8)	Override	2.001	CT
(12, 19,		2bits	DPT_Switch_	
26, 33, 40,			Control	
47, 54, 61,				
68, 75, 82,				
89, 96,				
103, 110)				

The telegrams with the override commands are sent via the address linked with this object in order to raise/lower the solar protection.

4	Input G(,H)1 (2 → 8)	Enable	1.003 DPT_	CW
(11, 18,			Enable	
25, 32, 39,				
46, 53, 60,				
67, 74, 81,				
88, 95,				
102, 109				

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

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

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

Switch

Usage	Use separately
G1 : Main function	Priority
Function	Switch
Value when contact is closed	Priority High / On
Value when contact is opened	Priority High / Off
Contact type	Normally open contact
Add enable object	No

This function is used for inputs with a switch to send a priority telegram, the contact is closed or opened, a telegram is sent.

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Parameters	Setting	
Value when contact is closed	Priority High / On	
	Priority High / Off	
	Priority Low / On	
	Priority Low / Off	
Here an adjustment is made to define v	which value is written into the	
storage cell of the communication obje	ect 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 at the input from logical "0" to "1".		
Value when contact is opened	Priority High / On	
	Priority High / Off	
	Priority Low / On	
Priority Low / Off		
Here an adjustment is made to define which value is written into the		
storage cell of the communication object and sent after a falling edge		
in the signal status of the channel (input). The falling edge corresponds		

to a change in the signal status at the input from logical "1" to "0".

Contact type	Normally open contact	ally open cont
	Normally closed contact	ally closed cont

The contact type of the input attached to the channel is adjusted here. "Normally open contact": the contact of the input is active when closed, inactive when opened.

"Normally closed contact": the contact of the input is active when opened, inactive when closed.

Add enable object Yes / No

The parameter determines if the input can be blocked via an additional Enable object or not. If an input is blocked (Enable value = 0) the status changes at this input are not transmitted

• Pusn		
Usage	Use separately	•
G1 : Main function	Priority	•
Function	Push	•
Short push reaction	Priority High / On	•
Long push reaction	Priority High / Off	•
Long push action min.	2 seconds	•
Contact type	Normally open contact	•
Add enable object	No	•

This function is used for inputs with a push button to send a priority telegram, the push is short or long, a telegram is sent.

Parameters	Setting
Short push reaction	Priority High / On
	Priority High / Off
	Priority Low / On
	Priority Low / Off
Here an adjustment is made to def	fine which positive drive value is
written into the storage cell of the	communication object and sent
after short pressing the push butto	on attached to the input.
Long push reaction	Priority High / On
	Priority High / Off
	Priority Low / On
	Priority Low / Off
storage cell of the communication	fine which value is written into the object and sent after long pressing
the push button attached to the ir	
Long push action min.	0.5 second
	1 second
	2 seconds
	3 seconds
	4 seconds
	5 seconds
	10 seconds
This parameter determines the mi	nimum period for detecting a long
Contact type	Normally open contact
	Normally closed contact

The contact type of the input attached to the channel is adjusted here. "Normally open contact": the contact of the input is active when closed, inactive when opened.

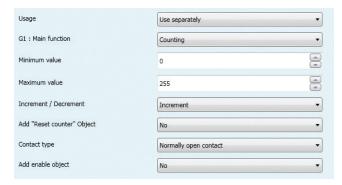
"Normally closed contact": the contact of the input is active when opened, inactive when closed.

Add enable object Yes / No

Technical data sheet: S000074637EN-6

The parameter determines if the input can be blocked via an additional Enable object or not. If an input is blocked (Enable value = 0) the status changes at this input are not transmitted

Counting



17, 54, 61, 88, 75, 82, 89, 96, 103, 110 100 1	No.	Object name	Function	Size	Flags
Lie_1_ Ucount Lie_1_	5	Input G(,H)1 (2 → 8)	Counting	5.010	CT
17, 54, 61, 88, 75, 82, 89, 96, 103, 110 100 1	(12, 19,			DPT_Va-	
88, 75, 82, 89, 96, 103, 110) The telegrams with the counter value are sent via the group address nked with this object. 3	26, 33, 40,			lue_1_	
89, 96, 103, 110) The telegrams with the counter value are sent via the group address nked with this object. 3	47, 54, 61,			Ucount	
103, 110	68, 75, 82,				
the telegrams with the counter value are sent via the group address nked with this object. 3	89, 96,				
See to the minimum value set by the "minimum value" parameter.	103, 110)				
3 Input G(,H)1 (2 → 8) Reset 1.015 DPT_Reset 4, 31, 38, 15, 52, 59, 16, 73, 80, 87, 94, 101, 108 5 a telegram linked with this object is received, then the counter value is eset to the minimum value set by the "minimum value" parameter. 4 Input G(,H)1 (2 → 8) Enable 1.003 DPT_ Enable 1, 10, 10, 10, 10, 10, 10, 10, 10, 10, 1	The telegra	ams with the counter v	value are sent v	ia the group a	ddress
(10, 17, 14, 31, 38, 15, 52, 59, 16, 73, 80, 187, 94, 101, 108) To a telegram linked with this object is received, then the counter value is eset to the minimum value set by the "minimum value" parameter. 4	linked with	this object.			
1.4, 31, 38, 1.5, 52, 59, 1.6, 73, 80, 1.87, 94, 1.01, 1.08) To a telegram linked with this object is received, then the counter value is eset to the minimum value set by the "minimum value" parameter. 4	3	Input G(,H)1 (2 → 8)	Reset	1.015	CW
15, 52, 59, 16, 73, 80, 187, 94, 101, 108) To a telegram linked with this object is received, then the counter value is eset to the minimum value set by the "minimum value" parameter. 4	(10, 17,		Counter	DPT_Reset	
16, 73, 80, 87, 94, 101, 108) To a telegram linked with this object is received, then the counter value is eset to the minimum value set by the "minimum value" parameter. 4	24, 31, 38,				
87, 94, 101, 108) To a telegram linked with this object is received, then the counter value is eset to the minimum value set by the "minimum value" parameter. 4	45, 52, 59,				
101, 108) The atelegram linked with this object is received, then the counter value is esset to the minimum value set by the "minimum value" parameter. 4	66, 73, 80,				
a telegram linked with this object is received, then the counter value is eset to the minimum value set by the "minimum value" parameter. 4	87, 94,				
eset to the minimum value set by the "minimum value" parameter. 4	101, 108)				
4 Input G(,H)1 (2 → 8) Enable 1.003 DPT_ CW Enable 5, 32, 39, 16, 53, 60, 17, 74, 81, 88, 95, 102, 109)	lf a telegra	m linked with this obje	ct is received, t	hen the counte	r value i
(11, 18, Enable (15, 32, 39, 16, 53, 60, 17, 74, 81, 88, 95, 102, 109)	reset to the	minimum value set b	<u>y the "minimun</u>	<u>n value" parame</u>	eter.
15, 32, 39, 16, 53, 60, 17, 74, 81, 88, 95, 102, 109)	4	Input G(,H)1 (2 → 8)	Enable	1.003 DPT_	CW
86, 53, 60, 67, 74, 81, 88, 95, 102, 109)	(11, 18,			Enable	
88, 95, 102, 109)	25, 32, 39,				
88, 95, 102, 109)	46, 53, 60,				
102, 109)	67, 74, 81,				
	88, 95,				
	102, 109)				
nable telegrams are received via the group address linked with this	Enable tele	grams are received via	the group add	ress linked with	n this

object. They are used to lock (disable) or unlock (enable) the corresponding input. They are only visible if "Add enable object" parameter value is set to yes.

Parameters	Setting
Minimum value	0 → 255, 0

An adjustment is made via this parameter to define which minimum is the minimum possible counter value.

In case of "decrement" value of "Increment decrement" parameter, the next counter value is set to the maximum value.

Maximum value $0 \rightarrow 255$, **255**

An adjustment is made via this parameter to define the maximum which is the maximum possible counter value.

In case of "increment" value of "Increment decrement" parameter, the next counter value is set the minimum value.

Increment / Decrement Increment Decrement

Here an adjustment is made to define if the counter has to be incremented/decremented by 1 after each rising edge.

Add "Reset counter" Object Yes / No

This parameter determines if the "Reset Counter" object is visible or not

Contact type Normally open contact Normally closed contact

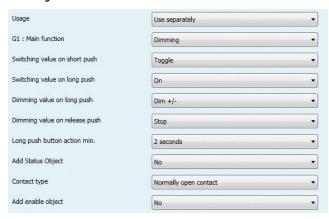
The contact type of the input attached to the channel is adjusted here. "Normally open contact": the contact of the input is active when closed, inactive when opened.

"Normally closed contact": the contact of the input is active when opened, inactive when closed.

Yes / No Add enable object

The parameter determines if the input can be blocked via an additional Enable object or not. If an input is blocked (Enable value = 0) the status changes at this input are not transmitted.

Dimming



No.	Object name	Function	Size	Flags
2	Input G(,H)1 (2 \rightarrow 8)	Switching	1.001 DPT_	CWT
(9, 16, 23,			Switch	
30, 37, 44,				
51, 58, 65,				
72, 79, 86,				
93, 100,				
107)				

Switching telegrams are sent via the group address linked with this object.

In the process, a short push button an ON, OFF or TOGGLE telegram.

III tile prot	ess, a short pash batt	orrain ort, or i	OI TO GGEE CEIC	grann
6	Input G(,H)1 (2 → 8)	Dimming	3.007 DPT_	CT
(13, 20,			Control_	
27, 34, 41,			Dimming	
48, 55, 62,				
69, 76, 83,				
90, 97,				
104, 111)				

The dimming telegrams are sent to the dimming actuator via the group address linked with this object. In the process, a long push produces a "100% dimming" telegram. A stop command is sent when the push button is released if "Dimming value on release push" is set to "stop".

7	Input G(,H)1 (2 → 8)	Value Status	5.001 DPT_	CW
(14, 21,			Scaling	
28, 35, 42,				
49, 56,				
63, 70, 77,				
84, 91, 98,				
105, 112)				

The dimming status telegrams are received from the dimming actuator via the group address linked with this object. This object is only visible when the parameter "Add status object" is set to "yes".

If Dimming value on long push is set to Dim+/-:

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If the dimming actuator is at a dimming value between 1 and 99%, the dimming direction last enabled is inverted and then dimmed in the new direction. This allow several operation locations to synchronize and to always invert the last applied dimming direction.

Note:

If this object is not linked with a group address or the last dimming status has not been received when the push button is pressed, the dimming direction is inverted when Dimming value on long push is set to Dim+/-.

No.	Object name	Function	Size	Flags
4	Input G(,H)1 (2 → 8)	Enable	1.003 DPT_	CW
(11, 18,			Enable	
25, 32, 39,				
46, 53,				
60, 67, 74,				
81, 88, 95,				
102, 109)				

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

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

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 attached to the input.

"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.

"Offf": 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 communi-

cation object is inverted and the new value	. 13 30110
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 attached to the input.

"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.

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 attached to the input.

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

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

"<u>Dim +</u>": Áfter short push, the dimming value "Increase 100%" is transferred into the communication object and sent.

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

refred file communication object	aria scrit.
Dimming value on push release	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 releasing a push button after a long press.

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

"Stop": When the push button is released after a long push, the dimming value "Stop" is transferred into the communication object and sent.

Created: 15/04/2014 **L7 legrand**

Parameters	Setting
Long push action min.	0.5 second
	1 second
	2 seconds
	3 seconds
	4 seconds
	5 seconds
	10 seconds
This navameter determines the m	sinimum pariod for datacting a long

This parameter determines the minimum period for detecting a long push.

Add status object Yes / No

The parameter determines if an additional communication object (status) shall be used to perform toggle functionality or other purposes.

Contact type Normally open contact
Normally closed contact

The contact type of the input attached to the channel is adjusted here. "Normally open contact": the contact of the input is active when closed, inactive when opened.

"Normally closed contact": the contact of the input is active when opened, inactive when closed.

Add enable object Yes / No

The parameter determines if the input can be blocked via an additional Enable object or not. If an input is blocked (Enable value = 0) the status changes at this input are not transmitted.

1 x 1 unsigned byte



No.	Object name	Function	Size	Flags
5	Input G(,H)1 (2 → 8)	Unsigned	5.010	CT
(12, 19,		Value	DPT_	
26, 33, 40,			Value_1_	
47, 54, 61,			Ucount	
68, 75, 82,				
89, 96,				
103, 110)				

The telegrams with the unsigned value are sent via the group address

illikea witi	i ti iis object.			
4	Input G(,H)1 (2 \rightarrow 8)	Enable	1.003 DPT_	CW
(11, 18,			Enable	
25, 32, 39,				
46, 53, 60,				
67, 74, 81,				
88, 95,				
102, 109)				

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

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

Parameters	Setting	
Byte value when contact is closed	0 → 255, 1	
Here an adjustment is made to define which	3	
written into the storage cell of the commu	nication object and sent	
after a rising edge in the signal status at th	e channel (input). The rising	

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 input from logical "0" to "1".

Contact type

Normally open contact Normally closed contact

The contact type of the input attached to the channel is adjusted here. "Normally open contact": the contact of the input is active when closed, inactive when opened.

"Normally closed contact": the contact of the input is active when opened, inactive when closed.

Add enable object

'es / No

The parameter determines if the input can be blocked via an additional Enable object or not. If an input is blocked (Enable value = 0) the status changes at this input are not transmitted.

2 x 1 unsigned byte

No.	Object name	Function	Size	Flags
5	Input G(,H)1 (2 → 8)	Unsigned	5.010	CT
(12, 19,		Value	DPT_Va-	
26, 33, 40,			lue_1_	
47, 54, 61,			Ucount	
68, 75, 82,				
89, 96,				
103, 110)				
703/110/	1.1 .1			

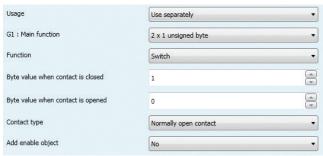
The telegrams with the unsigned value are sent via the group address linked with this object

4 (11, 18, 25, 32, 39, 46, 53, 60, 67, 74, 81, 88, 95, 102, 109) Enable Enable I.003 DPT_ CW

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

They are only visible if "Add status object" parameter value is set to yes

Switch



This function is used for inputs with a switch to send a byte value telegram, the contact is closed or opened, a telegram is sent.

Parameters	Setting
Byte value when contact is closed	0 → 255, 1

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

Byte value when contact is opened $0 \rightarrow 255$, 0

Here an adjustment is made to define which unsigned 8-bit value is written into the storage cell of the communication object and sent after a falling edge in the signal status at the channel (input). The falling edge corresponds to a change in the signal status at the input from logical "1" to "0".

Contact type Normally open contact
Normally closed contact

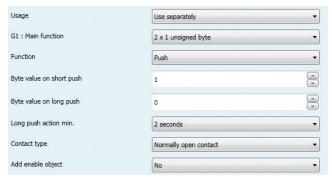
The contact type of the input attached to the channel is adjusted here. "Normally open contact": the contact of the input is active when closed, inactive when opened.

"Normally closed contact": the contact of the input is active when opened, inactive when closed.

Add enable object Yes / No

The parameter determines if the input can be blocked via an additional Enable object or not. If an input is blocked (Enable value = 0) the status changes at this input are not transmitted.

• Push



This function is used for inputs with a push button to send a byte value telegram, the push is short or long, a telegram is sent.

Parameters	Setting	
Byte value on short push	$0 \rightarrow 255, 1$	

Here an adjustment is made to define which unsigned 8-bit value is written into the storage cell of the communication object and sent after short pressing the push button attached to the input.

Byte value on long push $0 \rightarrow 255$, 0

Here an adjustment is made to define which unsigned 8-bit value is written into the storage cell of the communication object and sent after long pressing the push button attached to the input.

Long push action min.

0.5 second

1 second

2 seconds 3 seconds

4 seconds

5 seconds

10 seconds

This parameter determines the minimum period for detecting a long push.

Contact type Normally open contact
Normally closed contact

The contact type of the input attached to the channel is adjusted here. "Normally open contact": the contact of the input is active when closed, inactive when opened.

"Normally closed contact": the contact of the input is active when opened, inactive when closed.

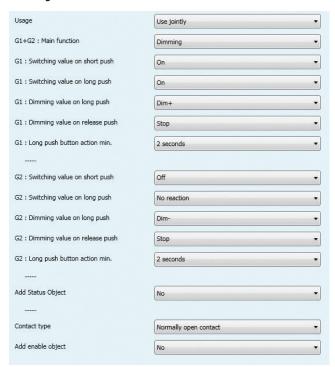
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Parameters	Setting
Add enable object	Yes / No

The parameter determines if the input can be blocked via an additional Enable object or not. If an input is blocked (Enable value = 0) the status changes at this input are not transmitted.

8.1.2 Use Jointy

Dimming



No.	Object name	Function	Size	Flags
2 (16, 30,	Input G(,H)1 (3 \rightarrow 7)+ G(,H)2 (4 \rightarrow 8),	Switching	1.001 DPT_ Switch	CWT
44, 58, 72, 86, 100)				
Switching object.	telegrams are sent via	the group add	ress linked witl	h this
6	Input G(,H)1 (3 → 7)+	Dimming	3.007 DPT_	CT
(20, 34,	G(,H)2 (4 → 8)		Control_Dim-	
48, 62, 76,			ming	
90, 104)				
Dimming telegrams are sent via the group address linked with this				
object.	r		1	
7	Input G(,H)1 (3 \rightarrow 7)+	Value Status	5.001 DPT_	CW
	G(,H)2 (4 → 8)		Scaling	
49, 63, 77,				
91, 105)				
The dimming status telegrams are received from the dimming actuator				
via the group address linked with this object. This object is only visible				
when the parameter "Add status object" is set to "yes".				
4	Input G(,H)1 (3 → 7)+	Enable	1.003 DPT_	CW
(18, 32,	G(,H)2 (4 → 8)		Enable	

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

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

Parameters	Setting
Xn - 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 of the push button attached to the input.

"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.

"Offf": 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.

Xn - 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 of the push button attached to the input.

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

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

Xn - Dimming value on long push	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 attached to the input.

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

"<u>Dim +</u>" After short push, the dimming value "Increase 100%" is transferred into the communication object and sent.

"<u>Dim_</u>": After short push, the dimming value "Decrease 100%" is transferred into the communication object and sent.

Xn - 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 when releasing the push button after a long press.

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

"Stop": When the push button is released after a long push, the dimming value "Stop" is transferred into the communication object and sent.

Xn – Long push button action min.	0.5 second
	1 second
	2 seconds
	3 seconds
	4 seconds
	5 seconds
	10 seconds
This parameter determines the minimum p	period for detecting a long
push.	

Technical data sheet: S000074637EN-6

Parameters	Setting
Xn+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 of the push button attached to the input.

"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.

"Offf": 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.

Xn+1 - Switching val	ue 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 of the push button attached to the input.

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

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

Xn+1 - Dimming value on long push	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 attached to the input.

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

"<u>Dim +</u>" After short push, the dimming value "Increase 100%" is transferred into the communication object and sent.

"<u>Dim</u>_": After short push, the dimming value "Decrease 100%" is transferred into the communication object and sent.

Xn+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 releasing the push button after a long push.

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

"Stop": When the push button is released after a long push, the dimming value "Stop" is transferred into the communication object and

Xn+1 - Long push button action min.	0.5 second
	1 second
	2 seconds
	3 seconds
	4 seconds
	5 seconds
	10 seconds

This parameter determines the minimum period for detecting a long push.

Add status object Yes / No

The parameter determines if an additional communication object (status) shall be used to perform toggle functionality or other purposes.

Contact type

Normally open contact

Normally closed contact

The contact type of the input attached to the channel is adjusted here.

The contact type of the input attached to the channel is adjusted here. "Normally open contact": the contact of the input is active when closed, inactive when opened.

"Normally closed contact": the contact of the input is active when opened, inactive when closed.

Add enable object Yes / No

The parameter determines if the input can be blocked via an additional Enable object or not. If an input is blocked (Enable value = 0) the status changes at this input are not transmitted.

Shutter 2-input

No.	Object name	Function	Size	Flags
2	Input G(,H)1 (3 \rightarrow 7)+	Shutter Up/	1.008 DPT_	CWT
(16, 30,	G(,H)2 (4 → 8)	Down	UpDown	
44, 58, 72,				
86, 100)				
The mover	nent commands Up/D	own are sent v	ia the address	linked
	bject in order to raise/		protection.	
8	Input G(,H)1 (3 \rightarrow 7)+	Shutter Stop	1.009 DPT_	CWT
(22, 36,	G(,H)2 (4 → 8)	- slats	OpenClose	
50, 64, 78,				
92, 106)				
The comm	The commands "STOP" or "Slats OPEN/CLOSE" are sent via the group			
address linked with this object.				

addic33 iii i	tea with this object.			
4	Input G(,H)1 (3 \rightarrow 7)+	Enable	1.003 DPT_	CW
(18, 32, 46,	G(,H)2 (4 → 8)		Enable	
60, 74, 88,				
102)				

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

They are only visible if "Add status object" parameter value is set to yes.

Switch

Usage	Use jointly	
G1+G2 : Main function	Shutter 2-inputs	•
Function	Switch	•
G1 : Sw value when contact is closed	Up	•
G1 : Sw value when contact is opened	Stop	•
G2 : Sw value when contact is closed	Down	•
G2 : Sw value when contact is opened	Stop	·
Contact type	Normally open contact	•
contact type		

This function is used for 2 inputs with a switch to send a up, stop or down telegram: the contact is closed or opened, a telegram is sent.

Parameters	Setting
Xn - Switching value when contact is	No reaction
closed	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 a rising edge. The rising edge corresponds to a change in the signal status at the input from logical "0" to "1".

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

"Up": when the contact is active, the command UP is transferred into the communication object and sent.

"Down": when the contact is active, the command DOWN is transferred into the communication object and sent

Xn - Switching value when contact is No reaction opened Stop

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Here an adjustment is made to define which switching movement command is written into the storage cell of the communication object and sent after a falling edge in the signal status at the channel (input). The falling edge corresponds to a change in the signal status at the input from logical "1" to "0".

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

"Stop": when the contact is inactive, the command stop is transferred into the communication object and sent.

Parameters	Setting
Xn+1 - Switching value when contact	No reaction
is closed	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 a rising edge. The rising edge corresponds to a change in the signal status at the input from logical "0" to "1".

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

"Up": when the contact is active, the command UP is transferred into the communication object and sent.

"Down": when the contact is active, the command DOWN is transferred into the communication object and sent.

3	No reaction
is opened	Stop

Here an adjustment is made to define which switching movement command is written into the storage cell of the communication object and sent after a falling edge in the signal status at the channel (input). The falling edge corresponds to a change in the signal status at the input from logical "1" to "0".

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

"Stop": when the contact is inactive, the command stop is transferred into the communication object and sent

Normally open contact Contact type Normally closed contact

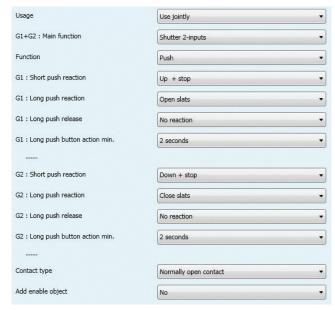
The contact type of the input attached to the channel is adjusted here. "Normally open contact": the contact of the input is active when closed, inactive when opened.

"Normally closed contact": the contact of the input is active when opened, inactive when closed.

Yes / No Add enable object

The parameter determines if the input can be blocked via an additional Enable object or not. If an input is blocked (Enable value = 0) the status changes at this input are not transmitted.

Push



This function is used for 2 inputs with push button to send a up, stop or down telegram: the push is short or long, a telegram is sent.

Parameters	Setting
Xn - Short push reaction	No reaction
	Up + stop
	Down + stop
	Stop
	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 short pressing of the push button attached to the input.

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

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.

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").

Xn - Long push reaction	No reaction
	Up
	Down
	Stop
	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 of the push button attached to the input.

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

Up: a long push action transfers into the communication object the Up command (value "0")

Down: a long push action send the Down command (value "1") Stop: a long push action sends the stop command (value "1" or "0") Open slats: a long push action transfers into the communication object the stop (open slats) command (value "0")

Close slats: a long push action transfers into the communication object

the stop (close siats) command (value 1)		
Xn - Long push release	1	No reaction
	2	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 after a long press.

'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

manieation object and sent.	
Xn - Long push action min.	0.5 second
	1 second
	2 seconds
	3 seconds
	4 seconds
	5 seconds
	10 seconds
This parameter determines the minimum period for detecting a long	

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Parameters	Setting
Xn+1 - Short push reaction	No reaction
	Up + stop
	Down + stop
	Stop
	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 short pressing of the push button attached to the input.

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

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.

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 siats) command value (1).	
Xn+1 - Long push reaction	No reaction
	Up
	Down
	Stop
	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 of the push button attached to the input.

'No reaction": action does not change the object value and also does not send a telegram.

Up: a long push action transfers into the communication object the Up command (value "0")

Down: a long push action sends the Down command (value "1") Stop: a long push action sends the stop command (value "1" or "0") Open slats: a long push action transfers into the communication object the stop (open slats) command (value "0")

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

Xn+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 after a long press.

'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.

Parameters	Setting
Xn+1 - Long push action min.	0.5 second
	1 second
	2 seconds
	3 seconds
	4 seconds
	5 seconds
	10 seconds
	1 16 1 1

This parameter determines the minimum period for detecting a long push.

Contact type Normally open contact
Normally closed contact

The contact type of the input attached to the channel is adjusted here. "Normally open contact": the contact of the input is active when closed, inactive when opened.

"Normally closed contact": the contact of the input is active when opened, inactive when closed.

Add enable object Yes / No

The parameter determines if the input can be blocked via an additional Enable object or not. If an input is blocked (Enable value = 0) the status changes at this input are not transmitted.

8.2 Outputs

8.2.1 Relays

Function On/Off

No.	Object name	Function	Size	Flags
114	Output Xn	Switching	1.001 DPT_	CW
(118, 122,			Switch	
126, 130,				
134, 138,				
142, 146,				
150, 154,				
158, 162,				
166, 170,				
174)				

This object is used to receive the swithing telegrams that are transferred to the relay channel.

Switching telegrams are sent via the group address linked with this object.

115	Output Xn,	Switching	1.001 DPT_	CRT
(119, 123,		Status	Switch	
127, 131,				
135, 139,				
143, 147,				
151, 155,				
159,163,				
167, 171,				
175)				

The current switching state of the channel is saved in the status object. It

is automati	natically selliceach time the object value changes.				
116	Output Xn	Enable	1.003 DPT_	CW	
(120, 124,			Enable		
128, 132,					
136, 140,					
144, 148,					
152, 156,					
160, 164,					
168, 172,					
176)					

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

No.	Object name	Function	Size	Flags
117	Output Xn	2bits Over-	2.001	CW
(121, 125,		ride	DPT_Switch_	
129, 133,			Control	
137, 141,				
145, 149,				
153, 157,				
161, 165,				
169, 173,				
177)				

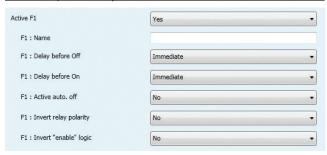
Override telegrams are received via the group address linked with this

Output Xn can be forcibly operated (e.g. by a higher-level control). The value of the communication object directly defines the forced position of the contact:

0 or 1 = The output is not forcibly operated (0 switched off, 1 switched on).

2 = The output is forcibly switched off.

3 =The output is forcibly switched on



Parameters	Setting	
Active Xn	Yes / No	
Xn : Delay before Off	Immediate, 500 ms,	
1 second, 2 seconds,		
	5 seconds, 10 seconds,	
	30 seconds, 1 minute, 90 s,	
	2 min., 10 min., 15 min.,	
	30 min., 45 min., 1 h, 90 min.	

This parameter sets the wanted OFF delay time. A set OFF delay acts only on the object "Output Xn, Switch"

only on the object "Output Xn, Switch"	
Xn : Delay before On	Immediate, 500 ms,
	1 second, 2 seconds,
	5 seconds,10 seconds,
	30 seconds, 1 minute, 90 s,
	2 min., 10 min., 15 min.,
	30 min., 45 min., 1 h, 90 min.

This parameter sets the wanted ON delay time. A set ON delay acts only on the object "Output Xn, Switch".

Xn : Active auto. off Yes / No

This parameter defines if the ouput is to be permanently switched on using the manual command and has to be switch off again using the manual command (No), or if it is switched on manually for a limited period and then automatically switched off (Yes).

Xn : Auto. off delay

Immediate, 500 ms,
1 second, 2 seconds,
5 seconds,10 seconds,
30 seconds, 1 minute, 90 s,
2 min., 10 min., 15 min.,
30 min., 45 min., 1 h, 90 min.

This parameter determines the delay before automatic switch-off.

Xn: Invert relay polarity Yes / No

The polarity type of the output attached to the channel is adjusted here.

"No": the contact of the output is close when active, open when inactive

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Parameters	Setting
Xn: Invert enable logic	Yes / No

The Enable logic of the output attached to the channel is adjusted here.

" \underline{No} ": the contact of the output is Disable when "Output Xn, Enable" object value is 0.

"Yes": the contact of the output is Disable when "Output Xn, Enable" object value is 1.

8.2.2 Shutter (for Ports A and B only)

No.	Object name	Function	Size	Flags
114,122	Outputs A (B)	Shutter Up/	1.008 DPT_	CW
		Down	UpDown	

The Up/Down movement for the corresponding channel is initiated via these objects. The shutter is raised on receipt of a logical 0 and lowered on receipt of a logical 1. The drive mechanism remains switched on until either a stop command is received

115,123	Outputs A (B)	Open/Close	1.009 DPT_	CW
		Slats	OpenClose	
		Shutter Stop		

Via these objects, the movement of a blind/shutter is stopped regardless of whether the telegram contains a logical 0 or a logical 1. If the output is configured as "Venitian blind" and the blind is stationary, the slats are opened by one step on receipt of a logical 0 and closed by one step on receipt of a logical 1.

If the output is configured as "Roller shutter" and a stop command is received when the roller shutter is stationary, the command is ignored.

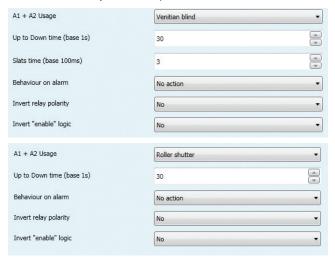
117,125	Outputs A (B)	Shutter	1.005 DPT_	CW
	•	Alarm	Alarm	

This object can be linked with an alarm signal from a wind, rain or ice detector, which sends a logical 0 in the idle state and a logical 1 in the event of an alarm.

116,124	Outputs A (B)	Shutter	1.003 DPT_	CW	
		Fnahle	Fnahle		

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

In ventian blind use you have the parameters for slat control



Parameters	Setting	
Xn+(n+1) Usage	Use separately(*)	
	Venitian blind	
	Roller shutter	
Exclusive function		
Slat time (base 100ms) 3 (0 → 255)		
Only available if "Xn+(n+1) Usage" is set to "Venitian blind"		

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Parameters	Setting
Up to Down time (base 1s)	30 (0 → 255)
Only available if "Xn+(n+1) Usage" is set shutter"	to "Venitian blind" or "Roller
Behaviour on alarm	No action
	Move up
	Move down
Only available if "Xn+(n+1) Usage" is set shutter"	to "Venitian blind" or "Roller
Invert relay polarity	Yes / No
Allows to invert the move up/down cor	nmand.
"No": X1 is move up, X2 move down	
"Yes": X1 is move down, X2 is move up	
Invert Enable logic	Yes / No
The Enable logic of the output attached	to the channel is adjusted
here.	
"No": the contact of the output is Disab	le when "Output Xn, Enable"
object value is 0.	
"Yes": the contact of the output is Disab object value is 1.	le when "Output Xn, Enable"

 $(\mbox{\ensuremath{\#}})$: See the previous parameters description and communication object description table

8.2.3 Exclusive function (Ports A and B only)

This functionality is used to perform logical XOR functions between two relays on the same port.

A1 + A2 Usage	Exclusive function	•
Invert relay polarity	No	•

No.	Object name	Function	Size	Flags	
115 (122)	Outputs A (B)	A2 on & A1	1.002 DPT_	CW	
		off Off	Bool		
		(B2 on & B1			
		off Off)			
1 : Activate	l es A2, Deactivates A1				
	ates A1 and A2				
114 (123)	Outputs A (B)	A1 on & A2	1.002 DPT_	CW	
		off Off	Bool		
		(B1 on & B2			
		off Off)			
1 : Activate	es A1, Deactivates A2				
0: Deactiv	ates A1 and A2				
121 (129)	Outputs A (B)	A2 Status	1.002 DPT_	CRT	
		(B2 Status)	Bool		
1 : A2 (B2)	is activated				
0 : A2 (B2) is deactivated					
117 (125)	Outputs A (B)	A1 Status	1.002 DPT_	CRT	
		(B1 Status)	Bool		
1:A1 (B1)	1: A1 (B1) is activated				
0:A1(B1)	is deactivated				

Parameters	Setting	
Xn, Invert relay polarity	Yes / No	
Allows to invert the logic of the exclusive function		

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8.2.4 DALI

with this object.

DALI

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No.	Object name	Function	Size	Flags
178	DALI	Switching	1.001 DPT_	CW
			Switch	
This object	ct is used to receive the	switching tele	grams that are	transfer-
red to the	DALI bus in broadcast	mode.		
Switching	telegrams are sent via	the group add	dress linked wit	h this
object.				
179	DALI	Switching	1.001 DPT_	CRT
		Status	Switch	
The curre	nt switching state of th	e channel is sa	ved in the statu	us object.
It is auton	natically sent each time	the object val	lue changes.	
180	DALI	Level	5.001 DPT_	CW
			Scaling	
This object	ct is used to receive the	level value tel	egrams that are	e transfer
red to the	DALI bus in broadcast	mode.		
Level valu	ie telegrams are sent vi	a the group ac	ldress linked wi	th this
object.				
181	DALI	Level Status	5.001 DPT_	CRT
			Scaling	
The current level state of the channel is saved in the status object. It is				
automation	cally sent each time the	object value o	hanges.	
184	DALI	Dimming	3.007 DPT_	CW
			Control_Dim-	

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

Enable

Dimming control telegrams are received via the group address linked

ming

1.003 DPT_

uning impu	11.		
183	DALI	2bits Over- 2.001	CW
		ride DPT_Switch_	
		Control	

Override telegrams are received via the group address linked with this object.

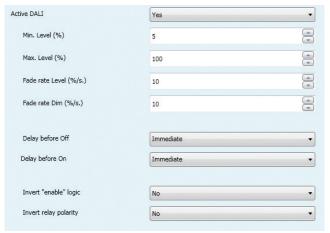
Output Xn can be forcibly operated (e.g. by a higher-level control). The value of the communication object directly defines the forced position of the contact:

0 or 1 = The output is not forcibly operated. (0 switched off, 1 switched on)

2 = The output is forcibly switched off.

3 = The output is forcibly switched on.

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Parameters	Setting		
Use DALI	Yes / No		
Yes: communication objects and para	ameters are visible.		
No: communication objects and para	meters are hidden.		
Min. Level (%)	0 → 100 (default 5%)		
This parameter is used to set the min	imum level that shall be used for		
the dimmer.			
Attention, this value can be overridde	en by the dali ballast physical		
minimum level.			
Max. Level (%)	0 → 100 (default 100%)		
This parameter is used to set the max	kimum level that shall be used for		
the dimmer.			
Fade rate level (%/s)	0 → 100 (default 10%)		
This parameter is use to set the fade	rate that shall be used with the		
Level and switching communication	objects.		
Fade rate Dim (%/s)	0 → 100(default 10%)		
This parameter is use to set the fade	rate that shall be used with the		
dimming communication object.			
Delay before Off	Immediate, 500 ms,		
	1 second, 2 seconds,		
	5 seconds, 10 seconds,		
	30 seconds, 1 minute, 90		
	s., 2 min., 10 min., 15 min.,		
	30 min., 45 min., 1 h, 90 min.		
This parameter sets the wanted OFF			
only on the object "Output Xn, Switch			
TimeBeforeOn	No reaction / Stop		
This parameter sets the wanted ON of	lelay time. A set ON delay acts only		
on the object "Output Xn, Switch".			
Xn, Invert Enable logic	Yes / No		
The Enable logic of the output attach	ned to the channel is adjusted		
here.			
"No": the contact of the output is Dis	able when "DALI, Enable" object		
value is 0.	"54115"		
"Yes": the contact of the output is Dis	sable when "DALI, Enable" object		
value is 1.	V / NI-		
Xn, Invert relay polarity	Yes / No		
The polarity type of the output attach	ned to the channel is adjusted		
here.	and colors and article and an order of		
"No": the contact of the output is closed when active, open when			

inactive. 8.3 MODE

Four modes are applicable. Each mode determines if an output should be available or not.

"Yes": the contact of the output is open when active, close when

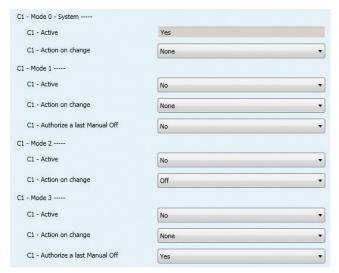
An additional parameter allows to determine the action to do when the desired mode is launched. $\label{eq:control}$

If an output is active, objects "Scene", "Override", "Enable/Disable", "On/Off" are usable.

If an output is inactive, the output cannot be managed by any object as long as the current mode is active. If the additional parameter "Authorize a last Manual Off" is set to "yes" it is possible to swich off the output before the output locks.

The additional parameter "Authorize a last Manual Off" is only available if output is set as inactive in the current mode and the parameter "Action on change" is set to "none" or "On" or "Enable+on".

Mode management is not available for Block A and B when they are configured as "Roller shutter", "Venitian blind", "Exclusive function".



Parameters	Setting
Mode	Mode 1
	Mode 2
	Mode 3
	Mode 0 (System)
This is a virtual parameter in order to confi	gure each mode.
Xn, Active	Yes / No

Here it is possible to do an adjustment to make the output available or not within the 4 different modes.

This is a very high priority, "Override" actions and "Enable" actions will have no effect on the output if "Xn Active" is set to "No".

With "Mode 0 (System)", this parameter has a ReadOnly permission and locked to "Yes".

locked to "Yes".		
Xn, Action on change	None	
	On	
	Off	
	Enable + On	
	Enable + Off	
	On + Disable	
	Off + Disable	
Here it is possible to make an adjustment to set an automatic order		

command when mode under configuration is active.

Xn, Authorize a last manu	al off	Yes / No
AII, AULIIUIIZE a Iast Illaliu	ai Oii	162 / 140

Here it is possible to make an adjustment to allow a last OFF order command on Xn when "Xn, Active" parameter is set to "No" (before output becomes unavailable).

This parameter is visible only if "Xn, Active" is set to "No" and "Xn Action on change" is set to "None","On" or "Enable+On".

No.	Object name	Function	Size	Flags	
198	Mode_Sytem	Mode_Sytem	1.010 DPT_	CRW	
			Start		
1 : Enables	System mode, disable	s all other mod	des	1	
0 : No reac					
199	Mode_1	Mode_1	1.010 DPT_	CRW	
			Start		
1: Enables	mode 1, disables all o	ther modes			
0 : No reac	tion				
200	Mode_2	Mode_2	1.010 DPT_	CRW	
			Start		
1 : Enables	1 : Enables mode 2, disables all other modes				
0 : No reaction					
201	Mode_3	Mode_3	1.010 DPT_	CRW	
			Start		
1 : Enables	1 : Enables mode 3, disables all other modes				
0 : No reac	0 : No reaction				

Parameters	Setting
Xn, Invert relay polarity	Yes / No
Allows to invert the move DND/MUR comr	nand.

8.4 Power Measure Management

Active power measure

No.	Object name	Function	Size	Flags
185	Outputs C (D, E, F)	Energy	13.010	CR
(186, 187,			DPT_	
188)			ActiveEnergy	
The value	saved into this comm	unication objec	ct represents th	ne measu-
red active	energy.			
189	Outputs C (D, E, F)	Energy Reset	1.010 DPT_	CW
(190, 191,			Start	
192)				
Start: resets the active energy counter				
Stop: No r	eaction			
193	Outputs C (D, E, F)	Power	14.56 DPT_	CR
(194, 195,		mesure	Value_Power	
196)				
The value	The value of this communication object represents the measured			
electrical	electrical power.			
If the obje	ect communication "wi	rite" flag is set, 1	the current val	ue is

Parameters	Setting
Active power measure	Yes
-	No

automatically sent each time the object value changes.

This parameter is used to hide or display the communication objects relating to power measure management.

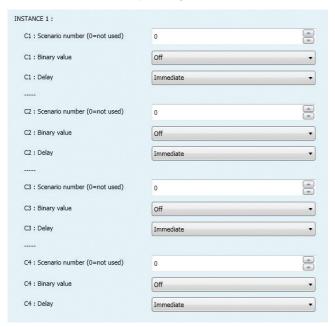
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8.5 Scenes

No.	Object name	Function	Size	Flags
1	Input Scene	Recall scene	17.001	CW
			DPT_Scene-	
			Number	
Connectal agrams are received via the group address linked with this				ith thic

Scenes telegrams are received via the group address linked with this object.

The scene value affects all ouputs using this scene number.



Each output channel can be assigned to 5 different instances. Each output channel can be assigned to 5 differents scenario instances. For Outputs A1, A2, B1, B2, those parameters are only available when outputs are configured as switch "use separatly".

Parameters	Setting
Xn, Scenario Number	0 → 64
0 : No scenario	
Xn, Scenario Order	Off
	On
	Off + Disable
	On + Disable
	Enable + Off
	Enable + On
	Enable
	Disable
Here it is possible to make an adjustn	nent to define the order action
that should be executed on the outp	ut when the corresponding scene
number is received.	
Xn, Delay	Immediate, 500 ms,

number is received.	
Xn, Delay	Immediate, 500 ms,
	1 second, 2 seconds,
	5 seconds,10 seconds,
	30 seconds, 1 minute,
	90 sec., 2 min., 10 min.,
	15 min., 30 min., 45 min.,
	1 h, 90 min.
Hara it is passible to make	an adjustment to define a delay before

Here it is possible to make an adjustment to define a delay before executing the order action on the output when the corresponding scene number is received.

For Outputs A and B, those parameters are only available when they are configured as "Roller shutter" or "Venitian blinds".

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T
0 → 64
Up
Down
Up + Disable
On + Disable
Enable + Up
Enable + Down
Enable
Disable

Here it is possible to make an adjustment to define the order action that should be executed on the output when the corresponding scene number is received.

Xn+(n+1), Delay	Immediate, 500 ms,
	1 second, 2 seconds,
	5 seconds, 10 seconds,
	30 seconds, 1 minute, 90
	s., 2 min., 10 min., 15 min.,
	30 min., 45 min., 1 h, 90 min.

Here it is possible to make an adjustment to define a delay before executing exclusive function the order action on the output when the corresponding scene number is received.

For Outputs A and B, those parameters are only available when they are configured as "Exclusive function".

Parameters	Setting
Xn+(n+1), Scenario Number	0 → 64
0 : No scenario	
Xn+(n+1), Scenario Order	Do Not disturb
	Make Up Room
	Stop

Here it is possible to make an adjustment to define the order action that should be executed on the output when the corresponding scene number is received.

Xn+(n+1), Delay	Immediate, 500 ms,
	1 second, 2 seconds,
	5 seconds, 10 seconds,
	30 seconds, 1 minute, 90 s.,
	2 min., 10 min., 15 min.,
	30 min., 45 min., 1 h, 90 min.

Here it is possible to make an adjustment to define a delay before executing the order action on the output when the corresponding scene number is received.

8.6 Program Functions

3 program functions are available.

Each program function allows to generate up to 5 different commands (fully configurable) triggered by one input condition (fully configurable).

No.	Object name	Function	Size	Flags
214	Program Fn	Program Fn	1.002 DPT_	CRW
(220, 226)		Input 1bit	Bool	
		Program Fn	2.002 DPT_	
		Input 2bits	Bool_Control	
		Program Fn	3.007 DPT_	
		Input 4bits	Control_Dim-	
			ming	
		Program Fn	5.010 DPT_	
		Input 1bytes	Value_1_	
			Ucount	
		Program Fn	7.001 DPT_	
		Input 2bytes	Value_2_	
			Ucount	
		Program Fn	12.001 DPT_	
		Input 4bytes	Value_4_	
			Ucount	

This object is used to trigger the program function.

Depending on the "Input Size" parameter, this communication can have different datapoint types.

No.	Object name	Function	Size	Flags
215	Program Fn	Program Fn	1.002 DPT_	CT
(221, 227)		Output 1 1bit	Bool]
		Program Fn	2.002 DPT_	
		Output 1	Bool_Control	
		2bits		
		Program Fn	3.007 DPT_	
		Output 1	Control_Dim-	
		4bits	ming	
		Program Fn	5.010 DPT_	1
		Output 1	Value_1_	
		1bytes	Ucount	
		Program Fn	7.001 DPT_	1
		Output 1	Value_2_	
		2bytes	Ucount	
		Program Fn	12.001 DPT_	-
			_	
		Output 1	Value_4_	
The Due au	6 0	4bytes	Ucount	المادة المادة
	m function Output		i tile address III	ikea With
	when the program		1 002 DDT	СТ
216	Program Fn	Program Fn	1.002 DPT_	СТ
(222, 228)		Output 21bit	Bool	
		Program Fn	2.002 DPT_]
		Output 2	Bool_Control	
		2bits		
		Program Fn	3.007 DPT_	1
		Output 2	Control_Dim-	
		4bits	ming	
		Program Fn	5.010 DPT	1
		Output 2	Value_1_	
		1bytes	Ucount	1
		Program Fn	7.001 DPT_	
		Output 2	Value_2_	
		2bytes	Ucount	-
		Program Fn	12.001 DPT_	
		Output 2	Value_4_	
	L	4bytes	Ucount	L
	m function Output		the address li	nked with
	when the program		I	lo -
217	Program Fn	Program Fn	1.002 DPT_	CT
(223, 229)		Output 3 1bit		-
		Program Fn	2.002 DPT_	
		Output 3	Bool_Control	
		2bits		1
		Program Fn	3.007 DPT_	
		Output 3	Control_Dim-	
		4bits	ming]
		Program Fn	5.010 DPT_	
	I.	_	Value_1_	
		Output 3	value i	
		Output 3 1bytes		
		1bytes	Ucount	
		1bytes Program Fn	Ucount 7.001 DPT_	_
		1bytes Program Fn Output 3	Ucount 7.001 DPT_ Value_2_	
		1bytes Program Fn Output 3 2bytes	Ucount 7.001 DPT_ Value_2_ Ucount	
		1bytes Program Fn Output 3 2bytes Program Fn	Ucount 7.001 DPT_ Value_2_ Ucount 12.001 DPT_	
		1bytes Program Fn Output 3 2bytes Program Fn Output 3	Ucount 7.001 DPT_ Value_2_ Ucount 12.001 DPT_ Value_4_	
	nm function Output	1bytes Program Fn Output 3 2bytes Program Fn Output 3 4bytes	Ucount 7.001 DPT_ Value_2_ Ucount 12.001 DPT_ Value_4_ Ucount	

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No.	Object name	Function	Size	Flags
218	Program Fn	Program Fn	1.002 DPT_	CT
(224, 230)		Output 4 1bit	Bool	
		Program Fn	2.002 DPT_	
		Output 4	Bool_Control	
		2bits	_	
		Program Fn	3.007 DPT_	
		Output 4	Control_Dim-	
		4bits	ming	
		Program Fn	5.010 DPT_	
		Output 4	Value_1_	
		1bytes	Ucount	
		Program Fn	7.001 DPT_	
		Output 4	Value_2_	
		2bytes	Ucount	
		Program Fn	12.001 DPT_	
		Output 4	Value_4_	
		4bytes	Ucount	
The Progra	am function Output	4 value is sent via	the address lin	nked with
this object	t when the program	is triggered.		
219	Program Fn	Program Fn	1.002 DPT_	CT
(225, 231)		Output 5 1bit	Bool	
		Program Fn	2.002 DPT_	
		Output 5	Bool_Control	
		2bits	_	
		ZDIG		
		Program Fn	3.007 DPT_	
			3.007 DPT_ Control_Dim-	
		Program Fn	_	
		Program Fn Output 5	Control_Dim-	
		Program Fn Output 5 4bits	Control_Dim- ming	
		Program Fn Output 5 4bits Program Fn	Control_Dim- ming 5.010 DPT_	
		Program Fn Output 5 4bits Program Fn Output 5	Control_Dim- ming 5.010 DPT_ Value_1_	
		Program Fn Output 5 4bits Program Fn Output 5 1bytes	Control_Dim- ming 5.010 DPT_ Value_1_ Ucount	
		Program Fn Output 5 4bits Program Fn Output 5 1bytes Program Fn	Control_Dim- ming 5.010 DPT_ Value_1_ Ucount 7.001 DPT_	
		Program Fn Output 5 4bits Program Fn Output 5 1bytes Program Fn Output 5	Control_Dim- ming 5.010 DPT_ Value_1_ Ucount 7.001 DPT_ Value_2_	
		Program Fn Output 5 4bits Program Fn Output 5 1bytes Program Fn Output 5 2bytes	Control_Dim- ming 5.010 DPT_ Value_1_ Ucount 7.001 DPT_ Value_2_ Ucount	

The Program function Output 5 value is sent via the address linked with this object when the program is triggered.

Parameters Setting

Parameters	Setting
Active Program X	Yes / No
This is a parameter	r that indicates if Program X should be used or not. If
not, no communic	ation object parameters will be visible.
Program X name	string
This is a parameter	r to name the program. There is no influence on the
program behavior.	
Name Px_input	string
This is a parameter	r to name the input function.
Input Size	1 bit
	2 bits
	4 bits
	1 Byte
	2 Bytes
	4 Bytes
Here it is possible	to make an adjustment to set the datapoint size of

the "Program Fn Input XXX" communication object.

Parameters	Setting	
Value Type	"Input Size" value	Possible setting values
value Type	1 bit	Value
	I DIL	
		On/Off
		Enable/Disable
		Up/Down
	2 bits	Value
		Control Value
	4 bits	Value
		Dimming
	1 Byte	Non-scaled value
		Scaled value
		Scene
	2 Bytes	Unsigned value
		Floating value
	4 Bytes	Unsigned value
		Floating value
Here it is possible	to make an adjustmer	nt to set the datapoint type of
the comparison va	alue.	
Value	1 bit Value	0, 1
	1 bit On/Off	On, Off
	1 bit Enable/Disable	Enable / Disable
	1 bit Up/Down	Up / Down
	2 bits Value	0, 1, 2, 3
	2 bits Control Value	Priority High / On
		Priority High / Off
		Priority Low / On
		Priority Low / Off
	4 bits Value	0 → 15
	4 bits Dimming	Up 100%, Up 50%, Up 25%,
	T DIG Dillilling	Up 12%, Up 6%, Up 3%,
		Up 1%, Stop, Stop, Down 1%,
		Down 3%, Down 6%, Down
	1 Duta Nan asalad	12%, Down 25%, Down 50%
	1 Byte Non-scaled	0 → 255
	value	0 > 1000/
	1 Byte Scaled value	0 → 100%
	1 Byte Scene	1 → 64
	2 Bytes Unsigned	0 → 65535
	value	
	2 Bytes Floating value	0 → 65535
	4 Bytes Unsigned value	0 → 4294967295
	4 Bytes Floating	0 → 4294967295
	value	
Here it is possible		nt to set the value that should
		value. If equal, then the
program sequenc		- 1 ,
Name Px_ Out-	string	
put 1 (2 → 5)		
	er to name the output	X function.
Output 1	1 bit	
(2 → 5) Size	2 bits	
(2 / J) JIZE		
	4 bits	
	1 Byte	
	2 Bytes	
11	4 Bytes	
mere it is possible	to make an adjustmer	nt to set the datapoint size of

the "Program Fn Output Y XXX" communication object.

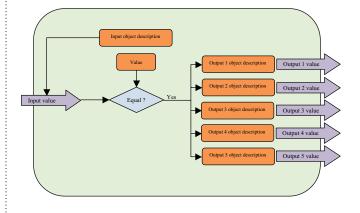
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Parameters	Setting		
Output 1 (2 → 5)	"Input Size" value	Possible setting values	
Value Type	1 bit	Value	
		On/Off	
		Enable/Disable	
		Up/Down	
	2 bits	Value	
		Control Value	
	4 bits	Value	
		Dimming	
	1 Byte	Non-scaled value	
		Scaled value	
		Scene	
	2 Bytes	Unsigned value	
		Floating value	
	4 Bytes	Unsigned value	
		Floating value	

Here it is possible to make an adjustment to set the datapoint type of the value that should be sent on the bus via the Program Fn Output Y

		s via the Program Fn Output Y
XXX communication		I
Output 1 (2 → 5)		0, 1
Value	1 bit On/Off	On, Off
	1 bit Enable/Disable	Enable / Disable
	1 bit Up/Down	Up / Down
	2 bits Value	0, 1, 2, 3
	2 bits Control Value	Priority High / On
		Priority High / Off
		Priority Low / On
		Priority Low / Off
	4 bits Value	0 → 15
	4 bits Dimming	Up 100%, Up 50%, Up 25%,
		Up 12%, Up 6%, Up 3%,
		Up 1%, Stop, Stop, Down 1%,
		Down 3%
		Down 6%, Down 12%
		Down 25%, Down 50%
	1 Byte Non-scaled	0 → 255
	value	
	1 Byte Scaled value	0 →100%
	1 Byte Scene	1 → 64
	2 Bytes Unsigned	0 → 65535
	value	
	2 Bytes Floating	0 → 65535
	value	
	4 Bytes Unsigned	0 → 4294967295
	value	
	4 Bytes Floating	0 → 4294967295
	value	

Here it is possible to make an adjustment to set the value that should be sent on the bus via the Program Fn Output Y XXX communication object.



8.7 Logical functions

3 logical functions are available.

A logical function consists in generating an output command resulting from a logic operation comprising up to 3 input conditions. Each input (fully configurable) is compared with a preset value depending of the communication objects size selected. The element of comparison between the preset value and the value received into the input communication object is also configurable (equal, different, higher, lower, etc.).

The logical result of each comparison (true or false) is then operated by up to 2 operators (depending on whether different inputs are used or not) in order to generate a logic operation result. This result is used to trigger the output telegram (fully configurable).

The output telegram value can be the logic operation result or a preset value (the preset value size depends on the chosen output communication object size). Also, there is a condition (configurable) that triggers the output telegram sending (see parameter "Output SendCondition").

No.	Object name	Function	Size	Flags
202	Logic Fn	Logic Fn	1.002 DPT_	CRW
(206, 210)		Input 1 1bit	Bool	
		Logic Fn	2.002 DPT_	1
		Input 1 2bits	Bool_Control	
		Logic Fn	3.007 DPT_	
		Input 1 4bits	Control_Dim-	
			ming]
		Logic Fn	5.010 DPT_	
		Input 1	Value_1_	
		1bytes	Ucount	
		Logic Fn	7.001 DPT_	
		Input 1	Value_2_	
		2bytes	Ucount	
		Logic Fn	12.001 DPT_	
		Input 1	Value_4_	
		4bvtes	Ucount	

This object is used, as an event, to trigger the logical function. Depending on the "Input 1: Object size" parameter, this communication

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l	<u>can have d</u>	ifferent datapoint type	2.		
	203 (207, 211)	3	Logic Fn Input 2 1bit	1.002 DPT_ Bool	CRW
			Logic Fn Input 3 2bits	2.002 DPT_ Bool_Control	
			Logic Fn Input 3 4bits	3.007 DPT_ Control_Dim-	
			'	ming	
			Logic Fn Input 3	5.010 DPT_ Value_1_	
			1bytes	Ucount	
			Logic Fn Input 3	7.001 DPT_ Value 2	
			2bytes	Ucount	
			Logic Fn	12.001 DPT_	
			Input 3 4bytes	Value_4_ Ucount	
ŀ	The same last a sec	tanna al la anno anti-			

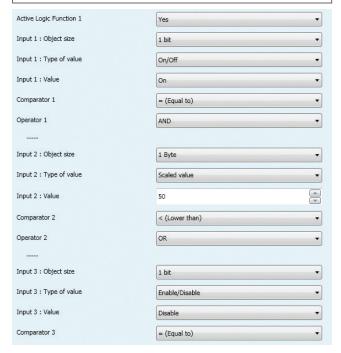
This object is used, as event, to trigger the logical function. Depending of "Input 1: Object size" parameter, this communication can have different datapoint type.

No.	Object name	Function	Size	Flags
204	Logic Fn	Logic Fn	1.002 DPT_	CRW
(208, 212)		Input 3 1bit	Bool	
		Logic Fn	2.002 DPT_	1
		Input 3 2bits	Bool_Control	
		Logic Fn	3.007 DPT_	1
		Input 3 4bits	Control_Dim-	
			ming	
		Logic Fn	5.010 DPT_	
		Input 3	Value_1_	
		1bytes	Ucount	
		Logic Fn	7.001 DPT_	
		Input 3	Value_2_	
		2bytes	Ucount	
		Logic Fn	12.001 DPT_	
		Input 3	Value_4_	
		4bytes	Ucount	

This object is used, as an event, to trigger the logical function. Depending on the "Input 1: Object size" parameter, this communication

	,		.,	
can have d	ifferent datapoint type			
205 (209, 213)	Logic Fn	Logic Fn Output 1bit	1.002 DPT_ Bool	СТ
		Logic Fn Out- put 2bits	2.002 DPT_ Bool_Control	
		Logic Fn Out- put 4bits	3.007 DPT_ Control_Dim- ming	
		Logic Fn Out- put 1bytes	5.010 DPT_ Value_1_ Ucount	
		Logic Fn Out- put 2bytes	7.001 DPT_ Value_2_ Ucount	
		Logic Fn Out- put 4bytes	12.001 DPT_ Value_4_ Ucount	

The Logic Fn Output xx object value is sent via the address linked with this object depending on the logical function configuration.



Davamentova	Catting	
Parameters	Setting Yes / No	
Active Logic	res / NO	
function X		
		c function X should be used or
		rameters will be visible.
Input 1 : Object	1 bit/2 bits/4 bits/1 B	yte/2 Bytes/4 Bytes
size	1 1 1	
		t to set the datapoint size of the
	X" communication ob	
	"Input Size" value	Possible setting values
value	1 bit	Value On/Off
		Enable/Disable
		Up/Down
	2 bits	Value
	Z DILS	Control Value
	4 bits	Value
	T DIG	Dimming
	1 Byte	Non-scaled value
	i byte	Scaled value
		i
	2 Putos	Scene Unsigned value
	2 Bytes	
	4 Putos	Floating value
	4 Bytes	Unsigned value
Hana it ia maailala 4		Floating value
		t to set the datapoint type of
the comparison va	1 bit Value	0.1
Input 1 : value		0, 1
	1 bit On/Off	On, Off
	1 bit Enable/Disable	Enable / Disable
	1 bit Up/Down 2 bits Value	Up / Down
	2 bits Value 2 bits Control Value	0, 1, 2, 3
	2 bits Control value	Priority High / Off
		Priority High / Off Priority Low / On
		Priority Low / Off
	4 bits Value	0 → 15
	4 bits Dimming	Up 100%, Up 50%, Up 25%,
	T Dits Dillilling	Up 12%, Up 6%, Up 3%,
		Up 1%, Stop, Stop, Down
		1%, Down 3%, Down 6%,
		Down 12%, Down 25%,
	1 Puta Nan scalad	Down 50%
	1 Byte Non-scaled value	0 → 255
	1 Byte Scaled value	0 → 100%
	1 Byte Scaled Value	
	2 Bytes Unsigned	1 → 64 0 → 65535
	value	0 7 03333
	2 Bytes Floating	0 → 65535
	value*	0 7 03333
	4 Bytes Unsigned	0 → 4294967295
	value	0 7 7277707273
	4 Bytes Unsigned	0 → 4294967295
	value	
Here it is posible to		t to set the value that should be
		(received from the bus).
	e integer part is used.	
Comparator 1	= (equal to)	
	!= (not equal to)	
	< (lower than)	
	<= (lower than or eq	ual to)
	> (higher than)	uu. (0)
	>= (higher than or e	aual to)
This is an adjustm		omparator should be used to
		ue received from the bus (Logic
Fn Input 1 XXX).	varanneter dilu tile Vdit	de received from the bus (Logic
	arrars of pracision it's	s strongly recommended not to

Attention: Due to errors of precision, it's strongly recommended not to use the "=" and "!=" comparator with floating value or scaled value.

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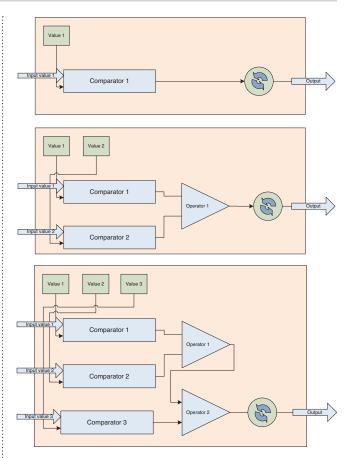
Parameters	Setting
Operator 1	None
	AND
	OR
	XOR
	NAND
	NOR
Operator 1	
Input 2 : Object	See "Input 1 : Object size" parameter description
size	
	o make an adjustment to set the datapoint size of the
	X" communication object.
Input 2 : Type of value	See "Input 1 : Type of value" parameter description
	o make an adjustment to set the datapoint type of
the compared valu	
Input 2 : value	See "Input 1 : value" parameter description
_	o make an adjustment to set the value that should be
	c Fn Input 2 XXX value (received from the bus).
Comparator 2	= (equal to)
	!= (not equal to)
	< (lower than)
	<= (lower than)
	> (higher than)
	>= (higher than or equal to)
Here it is posible to	o make an adjustment to choose which comparator
	compare Value 2 parameter and the value received
from the bus (Logi	
	errors of precision, it's strongly recommended not to
	"comparator with floating value or scaled value.
Operator 2	None
Operator 2	AND
	OR
	XOR
	NAND
	NOR
Operator 2	NON
	See "Input 1 · Object size" parameter description
Input 3 : Object	See "Input 1 : Object size" parameter description
Input 3 : Object size	
Input 3 : Object size Here it is posible to	See "Input 1 : Object size" parameter description o make an adjustment to set the datapoint size of the X" communication object.
Input 3 : Object size Here it is posible t "Logic Fn Input XX	o make an adjustment to set the datapoint size of the
Input 3 : Object size Here it is posible t "Logic Fn Input XX	o make an adjustment to set the datapoint size of the (X" communication object.
Input 3 : Object size Here it is posible t "Logic Fn Input XX Input 3 : Type of value	o make an adjustment to set the datapoint size of the (X" communication object.
Input 3 : Object size Here it is posible to "Logic Fn Input XX Input 3 : Type of value Here it is posible to the compared value	o make an adjustment to set the datapoint size of the (X" communication object. See "Input 1 : Type of value" parameter description o make an adjustment to set the datapoint type of the company to the
Input 3 : Object size Here it is posible to "Logic Fn Input XX Input 3 : Type of value Here it is posible to the compared value	o make an adjustment to set the datapoint size of the (X" communication object. See "Input 1 : Type of value" parameter description o make an adjustment to set the datapoint type of
Input 3 : Object size Here it is posible to "Logic Fn Input XX Input 3 : Type of value Here it is posible to the compared value Input 3 : value	o make an adjustment to set the datapoint size of the (X" communication object. See "Input 1 : Type of value" parameter description o make an adjustment to set the datapoint type of the company to the
Input 3 : Object size Here it is posible to "Logic Fn Input XX Input 3 : Type of value Here it is posible to the compared value Input 3 : value Here it is posible to the compared value	o make an adjustment to set the datapoint size of the (X" communication object. See "Input 1 : Type of value" parameter description o make an adjustment to set the datapoint type of Je. See "Input 1 : value" parameter description
Input 3 : Object size Here it is posible to "Logic Fn Input XX Input 3 : Type of value Here it is posible to the compared value Input 3 : value Here it is posible to the compared value	o make an adjustment to set the datapoint size of the (X" communication object. See "Input 1 : Type of value" parameter description o make an adjustment to set the datapoint type of see. See " Input 1 : value" parameter description o make an adjustment to set the value that should be
Input 3 : Object size Here it is posible to "Logic Fn Input XX Input 3 : Type of value Here it is posible to the compared value Here it is posible to the compared value Here it is posible to compared to Logic	o make an adjustment to set the datapoint size of the XX communication object. See "Input 1: Type of value" parameter description o make an adjustment to set the datapoint type of Je. See "Input 1: value" parameter description o make an adjusment to set the value that should be Fn Input 3 XXX value (received from the bus).
Input 3 : Object size Here it is posible to "Logic Fn Input XX Input 3 : Type of value Here it is posible to the compared value Here it is posible to the compared value Here it is posible to compared to Logic	o make an adjustment to set the datapoint size of the XX communication object. See "Input 1: Type of value" parameter description o make an adjustment to set the datapoint type of see. See "Input 1: value" parameter description o make an adjustment to set the value that should be care input 3 XXX value (received from the bus).
Input 3 : Object size Here it is posible to "Logic Fn Input XX Input 3 : Type of value Here it is posible to the compared value Here it is posible to the compared value Here it is posible to compared to Logic	o make an adjustment to set the datapoint size of the XX communication object. See "Input 1: Type of value" parameter description o make an adjustment to set the datapoint type of see. See "Input 1: value" parameter description o make an adjustment to set the value that should be to Fn Input 3 XXX value (received from the bus). = (equal to) != (not equal to)
Input 3 : Object size Here it is posible to "Logic Fn Input XX Input 3 : Type of value Here it is posible to the compared value Here it is posible to the compared value Here it is posible to compared to Logic	o make an adjustment to set the datapoint size of the (X" communication object. See "Input 1: Type of value" parameter description o make an adjustment to set the datapoint type of see. See "Input 1: value" parameter description o make an adjustment to set the value that should be care input 3 XXX value (received from the bus). = (equal to) != (not equal to) < (lower than)
Input 3 : Object size Here it is posible to "Logic Fn Input XX Input 3 : Type of value Here it is posible to the compared value Here it is posible to the compared value Here it is posible to compared to Logic	o make an adjustment to set the datapoint size of the X" communication object. See "Input 1: Type of value" parameter description or make an adjustment to set the datapoint type of the See "Input 1: value" parameter description or make an adjustment to set the value that should be care Fn Input 3 XXX value (received from the bus). = (equal to) != (not equal to) < (lower than) <= (lower than or equal to)
Input 3 : Object size Here it is posible to "Logic Fn Input XX Input 3 : Type of value Here it is posible to the compared value Here it is posible to the compared value Here it is posible to compared to Logic	o make an adjustment to set the datapoint size of the X" communication object. See "Input 1: Type of value" parameter description on make an adjustment to set the datapoint type of the see. See "Input 1: value" parameter description on make an adjustment to set the value that should be computed as XXX value (received from the bus). = (equal to) != (not equal to) < (lower than) <= (lower than or equal to) > (higher than)
Input 3 : Object size Here it is posible to "Logic Fn Input XX Input 3 : Type of value Here it is posible to the compared value Input 3 : value Here it is posible to compared to Logic Comparator 3	o make an adjustment to set the datapoint size of the X" communication object. See "Input 1: Type of value" parameter description on make an adjustment to set the datapoint type of the see. See "Input 1: value" parameter description on make an adjustment to set the value that should be computed to set the value that shou
Input 3 : Object size Here it is posible to "Logic Fn Input XX Input 3 : Type of value Here it is posible to the compared value Input 3 : value Here it is posible to compared to Logic Comparator 3	o make an adjustment to set the datapoint size of the X" communication object. See "Input 1: Type of value" parameter description on make an adjustment to set the datapoint type of the see. See "Input 1: value" parameter description on make an adjustment to set the value that should be computed to set the value that shou
Input 3 : Object size Here it is posible to "Logic Fn Input XX Input 3 : Type of value Here it is posible to the compared value Here it is posible to the compared to Logic Comparator 3 Comparator 3	o make an adjustment to set the datapoint size of the X" communication object. See "Input 1: Type of value" parameter description of make an adjustment to set the datapoint type of the See "Input 1: value" parameter description of of make an adjustment to set the value that should be computed an adjustment to set the value that should be computed from the bus. In the



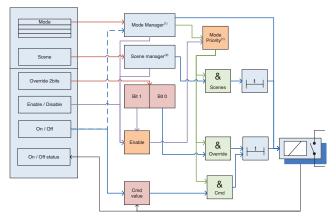
Parameters	Setting		
Output Result	Logic Result		
	Fixed value		
	er that determines which ki		
into Logic Fn Out	tput object. It can be the lo	gic operation result or a	
preset value (fixe	d value).		
Output Send-	Result change		
Condition	Result is true		
	Result is false		
	Input 1 event		
	Input 2 event		
	Input 3 event		
	Input 1 or 2 or 3 event		
Here it is posible	to make a parameter that o	determines the trigger	
	Logic Fn Output object tele		
Input 1 Size	1 bit		
•	2 bits		
	4 bits		
	1 Byte		
	2 Bytes		
	4 Bytes		
Here it is posible	to make an adjustment to s	set the datapoint size of the	
	t" communication object.		
Value 1 Type	"Input Size" value	Possible setting values	
- 3.22 i iypc	1 bit	Value	
	T Sit	On/Off	
		Enable/Disable	
		Up/Down	
	2 bits	Value	
	2 Dits	Control Value	
	4 bits	Value	
	4 Dits	Dimming	
	1 Purto	Non-scaled value	
	1 Byte	Scaled value	
		Scene	
	2 Purtos		
	2 Bytes	Unsigned value	
	4 D. da -	Floating value	
	4 Bytes	Unsigned value	
		Floating value	
	to make an adjustment to	set the datapoint type of	
	element.		
		0.1	
	1 bit Value	0, 1	
	1 bit Value 1 bit On/Off	On, Off	
	1 bit Value 1 bit On/Off 1 bit Enable/Disable	On, Off Enable / Disable	
	1 bit Value 1 bit On/Off 1 bit Enable/Disable 1 bit Up/Down	On, Off Enable / Disable Up / Down	
	1 bit Value 1 bit On/Off 1 bit Enable/Disable 1 bit Up/Down 2 bits Value	On, Off Enable / Disable Up / Down 0, 1, 2, 3	
	1 bit Value 1 bit On/Off 1 bit Enable/Disable 1 bit Up/Down	On, Off Enable / Disable Up / Down 0, 1, 2, 3 Priority High / On	
	1 bit Value 1 bit On/Off 1 bit Enable/Disable 1 bit Up/Down 2 bits Value	On, Off Enable / Disable Up / Down 0, 1, 2, 3 Priority High / On Priority High / Off	
	1 bit Value 1 bit On/Off 1 bit Enable/Disable 1 bit Up/Down 2 bits Value	On, Off Enable / Disable Up / Down 0, 1, 2, 3 Priority High / On Priority High / Off Priority Low / On	
	1 bit Value 1 bit On/Off 1 bit Enable/Disable 1 bit Up/Down 2 bits Value 2 bits Control Value	On, Off Enable / Disable Up / Down 0, 1, 2, 3 Priority High / On Priority High / Off Priority Low / On Priority Low / Off	
	1 bit Value 1 bit On/Off 1 bit Enable/Disable 1 bit Up/Down 2 bits Value 2 bits Control Value 4 bits Value	On, Off Enable / Disable Up / Down 0, 1, 2, 3 Priority High / On Priority High / Off Priority Low / On Priority Low / Off 0 → 15	
	1 bit Value 1 bit On/Off 1 bit Enable/Disable 1 bit Up/Down 2 bits Value 2 bits Control Value	On, Off Enable / Disable Up / Down 0, 1, 2, 3 Priority High / On Priority High / Off Priority Low / On Priority Low / Off 0 → 15 Up 100%, Up 50%,	
	1 bit Value 1 bit On/Off 1 bit Enable/Disable 1 bit Up/Down 2 bits Value 2 bits Control Value 4 bits Value	On, Off Enable / Disable Up / Down 0, 1, 2, 3 Priority High / On Priority High / Off Priority Low / On Priority Low / Off 0 → 15 Up 100%, Up 50%, Up 25%, Up 12%, Up 6%,	
	1 bit Value 1 bit On/Off 1 bit Enable/Disable 1 bit Up/Down 2 bits Value 2 bits Control Value 4 bits Value	On, Off Enable / Disable Up / Down 0, 1, 2, 3 Priority High / On Priority High / Off Priority Low / On Priority Low / Off 0 → 15 Up 100%, Up 50%, Up 25%, Up 12%, Up 6%, Up 3%, Up 1%, Stop, Stop	
	1 bit Value 1 bit On/Off 1 bit Enable/Disable 1 bit Up/Down 2 bits Value 2 bits Control Value 4 bits Value	On, Off Enable / Disable Up / Down 0, 1, 2, 3 Priority High / On Priority High / Off Priority Low / On Priority Low / Off 0 → 15 Up 100%, Up 50%, Up 25%, Up 12%, Up 6%,	
	1 bit Value 1 bit On/Off 1 bit Enable/Disable 1 bit Up/Down 2 bits Value 2 bits Control Value 4 bits Value	On, Off Enable / Disable Up / Down 0, 1, 2, 3 Priority High / On Priority High / Off Priority Low / On Priority Low / Off 0 → 15 Up 100%, Up 50%, Up 25%, Up 12%, Up 6%, Up 3%, Up 1%, Stop, Stop	
	1 bit Value 1 bit On/Off 1 bit Enable/Disable 1 bit Up/Down 2 bits Value 2 bits Control Value 4 bits Value	On, Off Enable / Disable Up / Down 0, 1, 2, 3 Priority High / On Priority High / Off Priority Low / On Priority Low / Off 0 → 15 Up 100%, Up 50%, Up 25%, Up 12%, Up 6%, Up 3%, Up 1%, Stop, Stop Down 1%, Down 3%,	
	1 bit Value 1 bit On/Off 1 bit Enable/Disable 1 bit Up/Down 2 bits Value 2 bits Control Value 4 bits Value	On, Off Enable / Disable Up / Down 0, 1, 2, 3 Priority High / On Priority High / Off Priority Low / On Priority Low / Off 0 → 15 Up 100%, Up 50%, Up 25%, Up 12%, Up 6%, Up 3%, Up 1%, Stop, Stop Down 1%, Down 3%, Down 6%, Down 12%, Down 25%, Down 50%	
	1 bit Value 1 bit On/Off 1 bit Enable/Disable 1 bit Up/Down 2 bits Value 2 bits Control Value 4 bits Value 4 bits Dimming	On, Off Enable / Disable Up / Down 0, 1, 2, 3 Priority High / On Priority High / Off Priority Low / Off 0 → 15 Up 100%, Up 50%, Up 25%, Up 12%, Up 6%, Up 3%, Up 1%, Stop, Stop Down 1%, Down 3%, Down 6%, Down 12%, Down 25%, Down 50% 0 → 255	
	1 bit Value 1 bit On/Off 1 bit Enable/Disable 1 bit Up/Down 2 bits Value 2 bits Control Value 4 bits Value 4 bits Dimming	On, Off Enable / Disable Up / Down 0, 1, 2, 3 Priority High / On Priority High / Off Priority Low / Off 0 → 15 Up 100%, Up 50%, Up 25%, Up 12%, Up 6%, Up 25%, Up 1%, Stop, Stop Down 1%, Down 3%, Down 6%, Down 12%, Down 25%, Down 50% 0 → 255 0 → 100%	
	1 bit Value 1 bit On/Off 1 bit Enable/Disable 1 bit Up/Down 2 bits Value 2 bits Control Value 4 bits Value 4 bits Dimming 1 Byte Non-scaled value 1 Byte Scaled value 1 Byte Scene	On, Off Enable / Disable Up / Down 0, 1, 2, 3 Priority High / On Priority High / Off Priority Low / Off 0 → 15 Up 100%, Up 50%, Up 25%, Up 12%, Up 6%, Up 25%, Up 1%, Stop, Stop Down 1%, Down 3%, Down 6%, Down 12%, Down 25%, Down 50% 0 → 255 0 → 100% 1 → 64	
the comparison o	1 bit Value 1 bit On/Off 1 bit Enable/Disable 1 bit Up/Down 2 bits Value 2 bits Control Value 4 bits Value 4 bits Dimming 1 Byte Non-scaled value 1 Byte Scaled value 2 Bytes Unsigned value	On, Off Enable / Disable Up / Down 0, 1, 2, 3 Priority High / On Priority High / Off Priority Low / Off 0 → 15 Up 100%, Up 50%, Up 25%, Up 12%, Up 6%, Up 25%, Up 1%, Stop, Stop Down 1%, Down 3%, Down 6%, Down 12%, Down 25%, Down 50% 0 → 255 0 → 100% 1 → 64 0 → 65535	
	1 bit Value 1 bit On/Off 1 bit Enable/Disable 1 bit Up/Down 2 bits Value 2 bits Control Value 4 bits Value 4 bits Dimming 1 Byte Non-scaled value 1 Byte Scaled value 2 Bytes Unsigned value 2 Bytes Floating value	On, Off Enable / Disable Up / Down 0, 1, 2, 3 Priority High / On Priority High / Off Priority Low / On Priority Low / Off 0 → 15 Up 100%, Up 50%, Up 25%, Up 12%, Up 6%, Up 3%, Up 1%, Stop, Stop Down 1%, Down 3%, Down 6%, Down 12%, Down 25%, Down 50% 0 → 255 0 → 100% 1 → 64 0 → 65535	
	1 bit Value 1 bit On/Off 1 bit Enable/Disable 1 bit Up/Down 2 bits Value 2 bits Control Value 4 bits Value 4 bits Dimming 1 Byte Non-scaled value 1 Byte Scaled value 2 Bytes Unsigned value	On, Off Enable / Disable Up / Down 0, 1, 2, 3 Priority High / On Priority High / Off Priority Low / Off 0 → 15 Up 100%, Up 50%, Up 25%, Up 12%, Up 6%, Up 25%, Up 1%, Stop, Stop Down 1%, Down 3%, Down 6%, Down 12%, Down 25%, Down 50% 0 → 255 0 → 100% 1 → 64 0 → 65535	

Logic Fn Input XXX value.

Technical data sheet: S000074637EN-6



Synoptic: output behaviours



(1) Mode manager

Four modes are applicable. Each mode determines if the output should be available or not (very high priority) If the output is inactive, the output cannot be managed by any object as long as the current mode is active, otherwise, objects "Scene", "Override", "Enable/Disable", "On/Off" are usable.

It's possible to determine the action to do when the desired mode is launched.

⁽²⁾Scene manager

Each output can be assigned to 5 instances of scenes. An instance scene is defined by a scene number and a value preset. If the scene number is set to the value "0", the scene instance is not used.

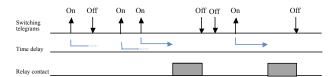
Scenes action can be executed after a time delay. This time delay is independent and overrides the outputs' delay parameters "time before off" and "time before on".

Output delay parameters

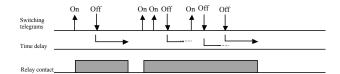
a) Without any delay



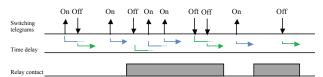
b) Delay before ON



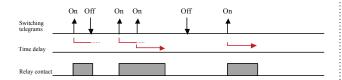
c) Delay before OFF



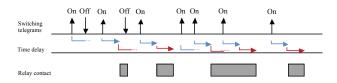
d) Delay before OFF + delay before ON



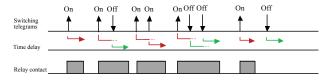
e) Auto Switch OFF



f) Delay before ON + Auto Switch OFF



g) Delay before OFF + Auto Switch OFF



h) Delay before ON + Delay before OFF + Auto Switch OFF

