

KNX Universal Interface

BINARY INPUT 2-WAY
BINARY INPUT 4-WAY
BINARY INPUT 6-WAY

Reference Manual

KNX BINARY INPUT 2-WAY V2.0	WRKT2402-XXX
KNX BINARY INPUT 4-WAY V2.0	WRKT2404-XXX
KNX BINARY INPUT 6-WAY V2.0	WRKT2406-XXX

V 1.00

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1 Functional Characteristics

The KNX universal interfaces 2-WAY, 4-WAY and 6-WAY are binary input modules with 2, 4 or 6 inputs for floating switch/push button contacts binary signals.

Furthermore, depending on the device, up to 4 channels can be configured for LED control.

The device can be installed in combination with conventional push buttons/switches in flush mounted sockets. This allows integration of conventional switches to KNX system.

The following functions can be configured:

- Switching
- 1 or 2 button Dimming
- 1 or 2 button Shutters/Blinds Control
- Value (Percentage, HWAC, Brightness, Temperature, Priority, 8bit values)
- Value for blinds
- Scene
- Command LED (With TSA 6 only C1,C2,C3 and C4)

The telegram type (switching and value) and the response for closing and opening the contacts can be specified individually.

The response to disable telegrams or after restoration of the bus power can also be configured.

1.1 Operation

The input is activated when voltage is supplied (device is connected to KNX bus) and configuration is done with ETS. Conventional push buttons, switches or any required sensors (timer, alarm system, etc.) can be connected.

Contacts voltage is supplied with integrated power supply, no external voltage required.

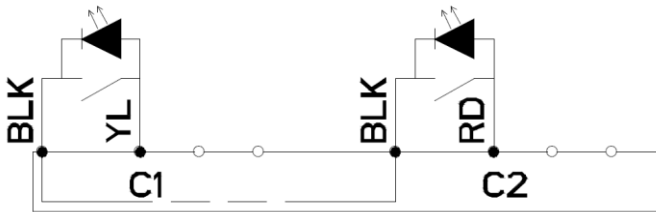
2 Technical Data

2.1 Technical details

General	
Power supply	Bus voltage.
Permitted operating temperature	-5 °C... + 45°C
Current draw from bus voltage	Max 10 mA
Bus connection	Bus terminal
Type of protection	IP 20 to EN 60529
Degree of pollution	2 to IEC 60664-1
Protection class	Class III to IEC 61140
Overvoltage class	Class III to IEC 60664-1
Dimensions:	LxWxH 37 x 37 x 12 (mm)
Inputs	
Quantity	2 Way : 2 inputs 4 Way: 4 inputs 6 Way: 6 inputs
Contact voltage	3.3 V provided internally
Contact current	0.1 mA
Maximum cable length	8 m
LED outputs	
Quantity	2 Way: 2 outputs 4 Way: 4 outputs 6 Way: 4 outputs
Use	Low current LEDs without series resistor
Output current	Maximum 1 mA / output

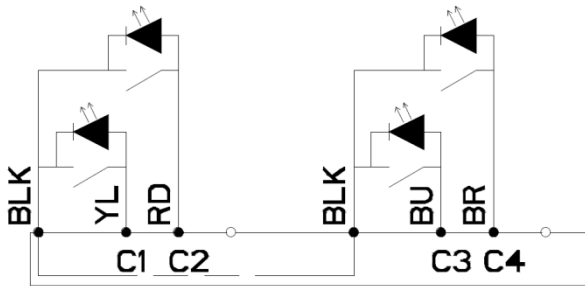
2.2 Connection diagrams

2 WAY (2 Channels)



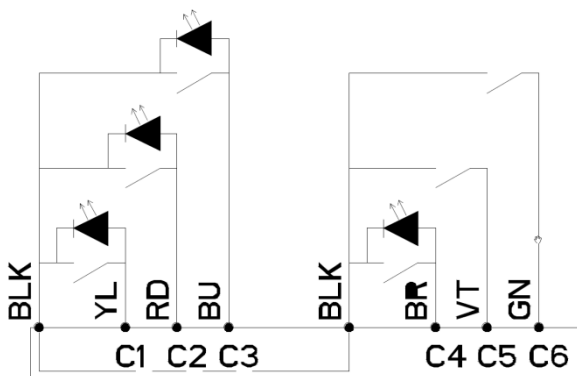
- Comman(C1) → BLK (Black)
- Channel 1 (C1) → YL (Yellow)
- Comman (C2) → BLK (Black)
- Channel 2(C2) → RD (Red)

4 WAY (4 Channels)



- Comman (C1,C2) → BLK (Black)
- Channel 1 (C1) → YL (Yellow)
- Channel 2 (C2) → RD (Red)
- Comman (C4,C5,C6) → BLK (Black)
- Channel 4(C4) → BR (Brown)
- Channel 3(C3) → BU (Blue)

6 WAY (6 Channels)



- Comman (C1,C2,C3) → BLK (Black)
- Channel 1 (C1) → YL (Yellow)
- Channel 2(C2) → RD (Red)
- Channel 3(C3) → BU (Blue)
- Comman (C4,C5,C6) → BLK (Black)
- Channel 4(C4) → BR (Brown)
- Channel 5 (C5) → VT (Violet)
- Channel 6 (C6) → GN (Green)

3 Application programs

3.1 Selection in the product database

Manufacturer	Panasonic		
Product group	Binary Input/Output		
Product type	Universal IO Interface		
Program names	2CH I/O Interface / 4CH I/O Interface / 6CH I/O Interface		
Program version	1.0	/	1.0 / 1.0

Number of communication objects:	Max. 18
Number of group addresses:	60
Number of assignments:	60

3.2 Communication objects

3.2.1 Object overview

Obj. No	Object name	Function	Size	Datapoint type	Flags				
					C	R	W	T	U
0	Channel 1, switching	Switch On/Off	1 Bit	1.001 DPT_Switch	✓	✓		✓	✓
	Channel 1, dimming	Switch On/Off	1 Bit	1.001 DPT_Switch	✓	✓		✓	✓
	Channel 1, shutter/blinds	Step/Stop	1 Bit	1.007 DPT_Step	✓	✓		✓	✓
	Channel 1, value	Percentage	1 Byte	5.001 DPT_Scaling	✓	✓		✓	✓
	Channel 1, value	Hvac operation mode	1 Byte	20.102 DPT_HVACMode	✓	✓		✓	✓
	Channel 1, value	Temperature	2 Bytes	9.001 DPT_Value_Temp	✓	✓		✓	✓
	Channel 1, value	Brightness	2 Bytes	9.004 DPT_Value_Lux	✓	✓		✓	✓
	Channel 1, value	1 byte unsigned value	1 Byte	5.010 DPT_Value_1_Ucount	✓	✓		✓	✓
	Channel 1, value	Priority	2 Bits	2.001 DPT_Switch_Control	✓	✓		✓	✓
	Channel 1, value for blind	Height	1 Byte	5.001 DPT_Scaling	✓	✓		✓	✓
	Channel 1, scene	Scene number	1 Byte	18.001 DPT_SceneControl	✓	✓		✓	✓
	Channel1, Led	Switch On/Off	1 Bit	1.001 DPT_Switch	✓	✓	✓	✓	✓
1	Channel 1, dimming	Brighter Darker Brighter/Darker	4 Bits	3.007 DPT_Control_Dimming	✓	✓		✓	✓
	Channel 1, shutter/blinds	Up Down Up/Down	1 Bit	1.008 DPT_UpDown	✓	✓		✓	✓
	Channel 1, value for blind	Slat	1 Byte	5.001 DPT_Scaling	✓	✓		✓	✓
2	Channel1, lock	Lock channel	1 Bit	1.001 DPT_Switch	✓	✓	✓		

3.2.2 Explanation of the flags

Flag	Flag name	Description
C	Communication	Object has a connection with bus.
R	Read	Object can be read from bus.
W	Write	Value can be written to object from bus.
T	Transmit	Object can send data to bus.
U	Update	Object updated with any response telegram.

3.2.3 Description of objects

Obj. No	Object name	Function	Description
0, 3, 6, 9, 12, 15	<i>Channel x, switching</i>	<i>Switch On/Off</i>	Sends 1-bit switching commands in DPT_1.001 format
	<i>Channel x, dimming</i>	<i>Switch On/Off</i>	Switch dimmer on and off with 1-bit switching commands in DPT_1.001 format
	<i>Channel x, shutter/blinds</i>	<i>Step/Stop</i>	Sends 1-bit "UP" or "DOWN" telegrams.
	<i>Channel x, value</i>	<i>Percentage</i>	Depending the parameters, sends a percentage value between 0 and 100 %
	<i>Channel x, value</i>	<i>Hvac operation mode</i>	Sends HVAC telegrams: 0 = auto 1 = comfort 2 = standby 3 = night 4 = frost/heat protection
	<i>Channel x, value</i>	<i>Temperature</i>	Sends a temperature value in DPT 9.001 format
	<i>Channel x, value</i>	<i>Brightness</i>	Sends a brightness value in DPT 9.004 format
	<i>Channel x, value</i>	<i>1 byte unsigned value</i>	Sends a value between 0 and 255
	<i>Channel x, value</i>	<i>Priority</i>	Sends priority telegrams in 2-bit format
	<i>Channel x, value for blind</i>	<i>Height</i>	Sends height for blinds between 0 and 100%
	<i>Channel x, scene</i>	<i>Scene number</i>	Recall / save light scene via 1byte telegram
	<i>Channel x, Led</i>	<i>Switch On/Off</i>	Receives 1-bit telegram to control a LED

Obj. No	Object name	Function	Description
1, 4, 7, 10, 13, 16	<i>Channel 1, dimming</i>	<i>Brighter</i> <i>Darker</i> <i>Brighter/Darker</i>	4-bit dimming commands for the dimming actuator in DPT_3.007 format
	<i>Channel 1, shutter/blinds</i>	<i>Up</i> <i>Down</i> <i>Up/Down</i>	1-bit motion commands for the blinds actuator in DPT_1.008 format
	<i>Channel 1, value for blind</i>	<i>Slat</i>	Sends slat position for blinds between 0 and 100%

Obj. No	Object name	Function	Description
2, 5, 8, 11, 14, 17	<i>Channel1, lock</i>	<i>Lock channel</i>	The corresponding input is disabled via this object. The resulting response can be set individually on the parameter pages. 1 = lock 0 = cancel lock

3.3 Parameters

3.3.1 Parameter pages

Function	Description
Channel Type	Select channel is input or output
General Settings	Parameters for all channels.
Channel 1 Channel 6	Parameter for the relevant channel.

3.3.2 Parameter description

3.3.2.1 The “Channel Type” parameter page

Parameter Name	Values	Description
Channel # is	Input	Channel is configured for switch, push button or sensor connection.
	Output	Channel is configured for driving LED

3.3.2.2 The “General Settings” parameter page

Parameter Name	Values	Description
Debounce time	30ms, 50ms , 100ms, 150ms	The new status of the input is only accepted after a time delay to avoid a disruptive switching process due to debouncing of the contact connected to the input.
Time for long keystroke	300m , 400ms,... 600ms...1000ms	If the key is pressed at least as long as the set time, then the long keystroke function will be operated. *Channel function must support long keystroke.
Time for extra long keystroke	1s, 2s, 3s , 4s, 5s	For some special operations extra long keystroke is required. If the key is pressed as long as the set time, then the extra long keystroke function will be operated. *Channel function must support extra long keystroke.

3.3.2.3 The “Channel X (input)” parameters page

Parameter Name	Values	Description
Function of the channel	<i>Switching</i> <i>Dimming</i> <i>Shutters/Blinds</i> <i>Value</i> <i>Value for blinds</i> <i>Scene</i>	The first parameter is "function of the channel" that sets the channel function. Depending on the function selected, the parameters listed below may change.

Parameters for "Switching"

The following parameters are available, see below...

Parameter Name	Values	Description
Reaction by closing the contact.	<i>None</i> <i>ON</i> <i>OFF</i> <i>Toggle</i>	How does the channel respond when input contact is closed. Ignore Send ON telegram Send OFF telegram Reverse channel status
Reaction by opening the contact.	<i>None</i> <i>ON</i> <i>OFF</i> <i>Toggle</i>	How does the channel respond when input contact is opened. See "Reaction by closing the contact".
Send telegrams cyclically	<i>No</i> <i>Yes</i> <i>Only after closing the contact</i> <i>Only after opening the contact</i>	Which events should be sent cyclically?
Cycle Time	<i>1s,2s...,30s, 1min,2min...30min, 1hours,2hours,... 24hours</i>	Telegrams resend interval
Reaction when setting the lock	<i>Ignore lock telegrams</i> <i>Unlock channel and no reaction</i> <i>Same as closing the contact</i> <i>Same as opening the contact</i>	When received the lock telegrams; Disable telegrams are ignored Only disable the channel, don't send any telegrams Disable the channel and send the same telegram that configured for "Reaction by closing the contact" Disable the channel and send the same telegram that configured for "Reaction by opening the contact"
Reaction when cancel the lock	<i>Unlock channel and no reaction</i>	When received the cancel lock telegrams; Only enable the channel, don't send any telegrams

Parameter Name	Values	Description
	<p><i>Update current state</i></p> <p><i>Same as closing the contact</i></p> <p><i>Same as opening the contact</i></p>	<p>Channel is enabled and the current status of the channel is sent</p> <p>Enable the channel and send the same telegram that configured for “<i>Reaction by closing the contact</i>”</p> <p>Enable the channel and send the same telegram that configured for “<i>Reaction by opening the contact</i>”</p>
Reaction when restoring the bus supply	<p><i>None</i></p> <p><i>Update with current state</i></p> <p><i>Same as closing the contact</i></p> <p><i>Same as opening the contact</i></p> <p><i>Update current state after 5 sec.</i> <i>Update current state after 10 sec.</i> <i>Update current state after 15 sec.</i></p> <p><i>Same as closing the contact after 5 sec.</i> <i>Same as closing the contact after 10 sec.</i> <i>Same as closing the contact after 15 sec.</i></p> <p><i>Same as opening the contact after 5 sec.</i> <i>Same as opening the contact after 10 sec.</i> <i>Same as opening the contact after 15 sec.</i></p>	<p>No reaction.</p> <p>The current status of the channel is sent</p> <p>Send the same telegram that configured for “<i>Reaction by closing the contact</i>”</p> <p>Send the same telegram that configured for “<i>Reaction by opening the contact</i>”</p> <p>The current channel status is sent after the selected time has elapsed.</p> <p>After the selected time has elapsed, channel sends the same telegram that configured for “<i>Reaction by closing the contact</i>”</p> <p>After the selected time has elapsed, channel sends the same telegram that configured for “<i>Reaction by opening the contact</i>”</p>

Parameters for “Dimming”
<p>With the single button operation, an input is connected to a simple push button.</p> <p>With other types of operation 2 inputs and two push buttons are required per dimmer . That means two channel inputs must be connected via common group addresses.</p>

Example:

Group address 3/4/5 for brighter object from channel 1 and darker object from channel 2. Group address 3/4/6 for the switch ON/OFF objects from channel 1 and channel 2.

Depending on the duration of the keystroke (short/ long key stroke), dimming or ON/OFF telegrams are sent to the dimmer.

The following parameters are available, see below...

Parameter Name	Values	Description
Reaction to Long/Short keystroke	<p>Single button operation</p> <p><i>Brighter / ON</i></p> <p><i>Brighter / Toggle</i></p> <p><i>Darker / OFF</i></p> <p><i>Darker / Toggle</i></p>	<p>The dimmer is operated by a single push button. (1 input channel) Short keystroke = ON/OFF Long keystroke = brighter / darker Release = stop</p> <p>The dimmer is operated using two push buttons. (2 input channels)</p> <p>Short keystroke = ON Long keystroke = brighter Release = stop</p> <p>Short keystroke = ON/OFF Long keystroke = brighter Release = stop</p> <p>Short keystroke = OFF Long keystroke = darker Release = stop</p> <p>Short keystroke = ON/OFF Long keystroke = darker Release = stop</p>
Reaction when setting the lock	<p>Ignore lock telegrams</p> <p><i>Unlock channel and no reaction</i></p> <p><i>On</i></p> <p><i>Off</i></p>	<p>When received the lock telegrams; Disable telegrams are ignored</p> <p>Only disable the channel, don't send any telegrams</p> <p>Disable the channel and send On telegram</p> <p>Disable the channel and send Off telegram</p>
Reaction when cancel the lock	<p>Unlock channel and no reaction</p> <p><i>On</i></p> <p><i>Off</i></p>	<p>When received the cancel lock telegrams; Only enable the channel, don't send any telegrams</p> <p>Enable the channel and send On telegram</p> <p>Enable the channel and send Off telegram</p>

Parameter Name	Values	Description
Reaction when restoring the bus supply	<p><i>None</i></p> <p><i>On</i></p> <p><i>Off</i></p> <p><i>On after 5sec.</i></p> <p><i>On after 10sec.</i></p> <p><i>On after 15sec.</i></p> <p><i>Off after 5sec.</i></p> <p><i>Off after 10sec.</i></p> <p><i>Off after 15sec.</i></p>	<p>No reaction.</p> <p>Send Switch-On telegram</p> <p>Send Switch-Off telegram</p> <p>Send Switch-On telegram after the selected time has elapsed.</p> <p>Send Switch-Off telegram after the selected time has elapsed.</p>

Parameters for “Shutters/Blinds”

With the single button operation, an input is connected to a simple push button.

With other types of operation, 2 inputs and two push buttons are required per blinds channel. That means two inputs must be connected via common group addresses.

Example:

Group address 3/5/5 for UP object from channel 1 and DOWN object from channel 2. Group address 3/5/6 for the Step /Stop object from channel 1 and channel 2.

Motion or step commands are sent to the blinds actuator depending on the duration of the keystroke (short/ long key stroke).

The following parameters are available, see below...

Parameter Name	Values	Description
Operation type	<p>Single button operation</p> <p><i>Down</i></p> <p><i>Up</i></p>	<p>The blind is operated by a single push button. (1 input channel)</p> <p>Short keystroke = Step Long keystroke = Move</p> <p>The blind is operated by two push buttons. (2 input channels)</p> <p>Short keystroke = Step Long keystroke = Move Down</p> <p>Short keystroke = Step Long keystroke = Move Up</p> <p>Run commands: Direction change with every keystroke.</p> <p>The stop command is triggered either by releasing the button or pressing it briefly, depending on the configuration. See below: „<i>Stop Driving</i>”</p>
Stop Driving	<p>Release the button Short keystroke</p>	How is the stop command triggered?
Reaction when setting the lock	<p>Ignore lock telegrams</p> <p><i>Unlock channel and no reaction</i></p> <p><i>Up</i></p> <p><i>Down</i></p>	<p>When received the lock telegrams;</p> <p>Disable telegrams are ignored</p> <p>Only disable the channel, don't send any telegrams</p> <p>Disable the channel and send Move Up telegram</p> <p>Disable the channel and send Move Down telegram</p>
Reaction when cancel the lock	<p>Unlock channel and no reaction</p> <p><i>Up</i></p> <p><i>Down</i></p>	<p>When received the cancel lock telegrams;</p> <p>Only enable the channel, don't send any telegrams</p> <p>Enable the channel and send Move Up telegram</p> <p>Enable the channel and send Move Down telegram</p>

Parameter Name	Values	Description
Reaction when restoring the bus supply	<i>None</i>	No reaction.
	<i>Up</i>	Send Move Up telegram
	<i>Off</i>	Send Switch-Off telegram
	<i>Up after 5sec.</i>	Send Move Up telegram after the selected time has elapsed.
	<i>Up after 10sec.</i>	
	<i>Up after 15sec.</i>	
<i>Down after 5sec.</i>	Send Move Down telegram after the selected time has elapsed.	
<i>Down after 10sec.</i>		
<i>Down after 15sec.</i>		

Parameters for “Value”

The following parameters are available, see below...

Parameter Name	Values	Description
Value sending type	<i>At short/long keystroke</i>	Values are sent with short keystrokes and long keystrokes.
	<i>By closing/opening contact</i>	Values are sent after closing or opening the input contacts. Without time-dependent
Type of value	<i>Percentage</i>	Any value between 0 and 100 % can be sent. %0, %1,%2 %98, %99, %100
	<i>Hvac operation mode</i>	Auto <i>Comfort</i> <i>Standby</i> <i>Night mode</i> <i>Frost/Heat protection</i>
	<i>Temperature</i>	Temperature between 0 and 40 °C with 0.5 steps can be sent. 0.0°C, 0.5°C, 1.0°C...39.0°C, 39.5°C, 40.0°C
	<i>Brightness value</i>	Brightness value between 0 lux and 1000 lux with 50lux steps can be sent. 0 lux, 50 lux, 950 lux, 1000 lux
	<i>8 bit unsigned value</i>	Any value between 0-255 can be sent 0,1,2,3,.....253, 254, 255
	<i>Priority</i>	Priority inactive (00) Priority ON (11) Priority OFF (10)
<i>If “At short/long keystroke” is selected</i>		
Value at short keystroke	<i>See “Type of value”</i>	Value which is to be sent with a short keystroke.

Parameter Name	Values	Description
Send value after ext. long keystroke	<i>Disable</i> <i>Enable</i>	Is a different value sent by an extra long keystroke?
Value at ext. long keystroke	See “Type of value”	Available if “Enable “ is selected in “Send value after ext. long keystroke” parameter. Then value is sent if the button is pressed at least as long as the extra long keystroke time. See “Time for extra long keystroke” parameter in “General settings” page
Reaction when setting the lock	<i>Ignore lock telegrams</i> <i>Lock channel</i>	When received the lock telegrams; Disable telegrams are ignored Disable the channel
Reaction when cancel the lock	<i>Unlock channel and no reaction</i> <i>Same as short keystroke</i> <i>Same as long keystroke</i>	When received the cancel lock telegrams; Only enable the channel, don’t send any telegrams Enable the channel and send same telegram configured in “Value at short keystroke” Enable the channel and send same telegram configured in “Value at ext. long keystroke” (Available if “Enable “ is selected in “Send value after ext. long keystroke” parameter.)
Reaction when restoring the bus supply	<i>None</i> <i>Same as short keystroke</i> <i>Same as short keystroke after 5 sec.</i> <i>Same as short keystroke after 10 sec.</i> <i>Same as short keystroke after 15 sec.</i> <i>Same as long keystroke</i> <i>Same as long keystroke after 5 sec.</i> <i>Same as long keystroke after 10 sec.</i>	No reaction. Send same telegram configured in “Value at short keystroke” Send same telegram configured in “Value at short keystroke” after the selected time has elapsed. (Below Available if “Enable “ is selected in “Send value after ext. long keystroke” parameter.) Enable the channel and send same telegram configured in “Value at ext. long keystroke” Enable the channel and send same telegram configured in “Value at ext. long keystroke”

Parameter Name	Values	Description
	<i>Same as long keystroke after 15 sec.</i>	
If “By closing/opening contact” is selected		
Value	<i>See “Type of value”</i>	Value to send
Send value	By closing the contact By opening the contact	Select value send action. Value will be sent when input contact is closed. Value will be sent when input contact is opened.
Reaction when setting the lock	Ignore lock telegrams <i>Lock channel</i>	When received the lock telegrams; Disable telegrams are ignored Disable the channel
Reaction when cancel the lock	No reaction <i>Send value</i>	When received the cancel lock telegrams; Only enable the channel, don't send any telegrams Enable the channel and send value
Reaction when restoring the bus supply	None <i>Send value</i> <i>Send value after 5 sec.</i> <i>Send value after 10 sec.</i> <i>Send value after 15 sec.</i>	No reaction. Send same telegram configured in “Value” Send same telegram configured in “Value” after the selected time has elapsed.

Parameters for “Value for Blinds”

The following parameters are available, see below...

Parameter Name	Values	Description
Height	<i>%0 - %100, %5 increments</i>	Sends a positioning telegram to the blinds / shutter actuator
Slat	<i>%0 - %100, %5 increments</i>	What slat position should be sent to the actuator together with the positioning telegram?
Function after ext. long keystroke		What function is carried out with a long keystroke?

Parameter Name	Values	Description
	<p><i>None</i></p> <p><i>Right UP (%0)</i></p> <p><i>Right Down (%100)</i></p>	<p>None</p> <p>Set slats to %0 and blinds to upper stop</p> <p>Set slats to %100 and blinds to lower stop</p>
Reaction when setting the lock	<p><i>Ignore lock telegrams</i></p> <p><i>Lock channel</i></p>	<p>When received the lock telegrams;</p> <p>Disable telegrams are ignored</p> <p>Disable the channel</p>
Reaction when cancel the lock	<p><i>Unlock channel and no reaction</i></p> <p><i>Same as short keystroke</i></p> <p><i>Same as long keystroke</i></p>	<p>When received the cancel lock telegrams;</p> <p>Only enable the channel, don't send any telegrams</p> <p>Enable the channel and send same telegram configured in "Height" and "Slat"</p> <p>Enable the channel and send same telegram configured "Height" and "Slat" (Available if "Function after ext. long keystroke" is not "None".)</p>
Reaction when restoring the bus supply	<p><i>None</i></p> <p><i>Same as short keystroke</i></p> <p><i>Same as short keystroke after 5 sec.</i></p> <p><i>Same as short keystroke after 10 sec.</i></p> <p><i>Same as short keystroke after 15 sec.</i></p> <p><i>Same as long keystroke</i></p> <p><i>Same as long keystroke after 5 sec.</i></p> <p><i>Same as long keystroke after 10 sec.</i></p> <p><i>Same as long keystroke after 15 sec.</i></p>	<p>No reaction.</p> <p>Send same telegrams configured in "Height" and "Slat"</p> <p>Send same telegram configured in "Height" and "Slat" after the selected time has elapsed.</p> <p>(Below Available if "Function after ext. long keystroke" is not "None".)</p> <p>Enable the channel and send same telegram configured in "Function after ext. long keystroke"</p> <p>Enable the channel and send same telegram configured in "Function after ext. long keystroke" after the selected time has elapsed.</p>

Parameter Name	Values	Description

Parameters for “Scenes”

The following parameters are available, see below...

Parameter Name	Values	Description
<i>Scene number</i>	<i>scene 1, scene 2 scene 64</i>	Sends the selected scene number (call scene)
<i>Save after ext. long keystroke</i>	<i>No</i> <i>Yes</i>	If selected scene will be saved with extra long keystroke
Reaction when setting the lock	<i>Ignore lock telegrams</i> <i>Lock channel</i>	When received the lock telegrams; Disable telegrams are ignored Disable the channel
Reaction when cancel the lock	<i>No reaction</i> <i>Send scene number</i>	When received the cancel lock telegrams; Only enable the channel, don't send any telegrams Enable the channel and send scene number
Reaction when restoring the bus supply	<i>None</i> <i>Send scene number</i> <i>Send scene number after 5 sec</i> <i>Send scene number after 10 sec</i> <i>Send scene number after 15 sec</i>	No reaction. Send same telegram configured in “ <i>Scene number</i> ” Send same telegram configured in “ <i>Scene number</i> ” after the selected time has elapsed.

3.3.2.4 The “Channel X (output)” parameters page

Parameter Name	Values	Description
<i>Led object is 0</i>	<i>On</i> <i>Off</i> <i>Blink</i>	Object =0, LED is ON Object =1, LED is OFF Object =0, LED is OFF Object =1, LED is ON Object =0, LED starts blinking Object =1, LED stops blinking

	<i>On for 5 sec.</i>	Object =0, LED is ON for 5 sec. Object =1, LED state does not change
<i>Led object is 1</i>	<i>On</i>	Object =1, LED is ON Object =0, LED is OFF
	<i>Off</i>	Object =1, LED is OFF Object =0, LED is ON
	<i>Blink</i>	Object =1, LED starts blinking Object =0, LED stops blinking
	<i>On for 5 sec.</i>	Object =1, LED is ON for 5 sec. Object =0, LED state does not change