S 2/4/6 KNX

S series KNX Push Button Sensor with Display,1/2/3-gang_V1.5

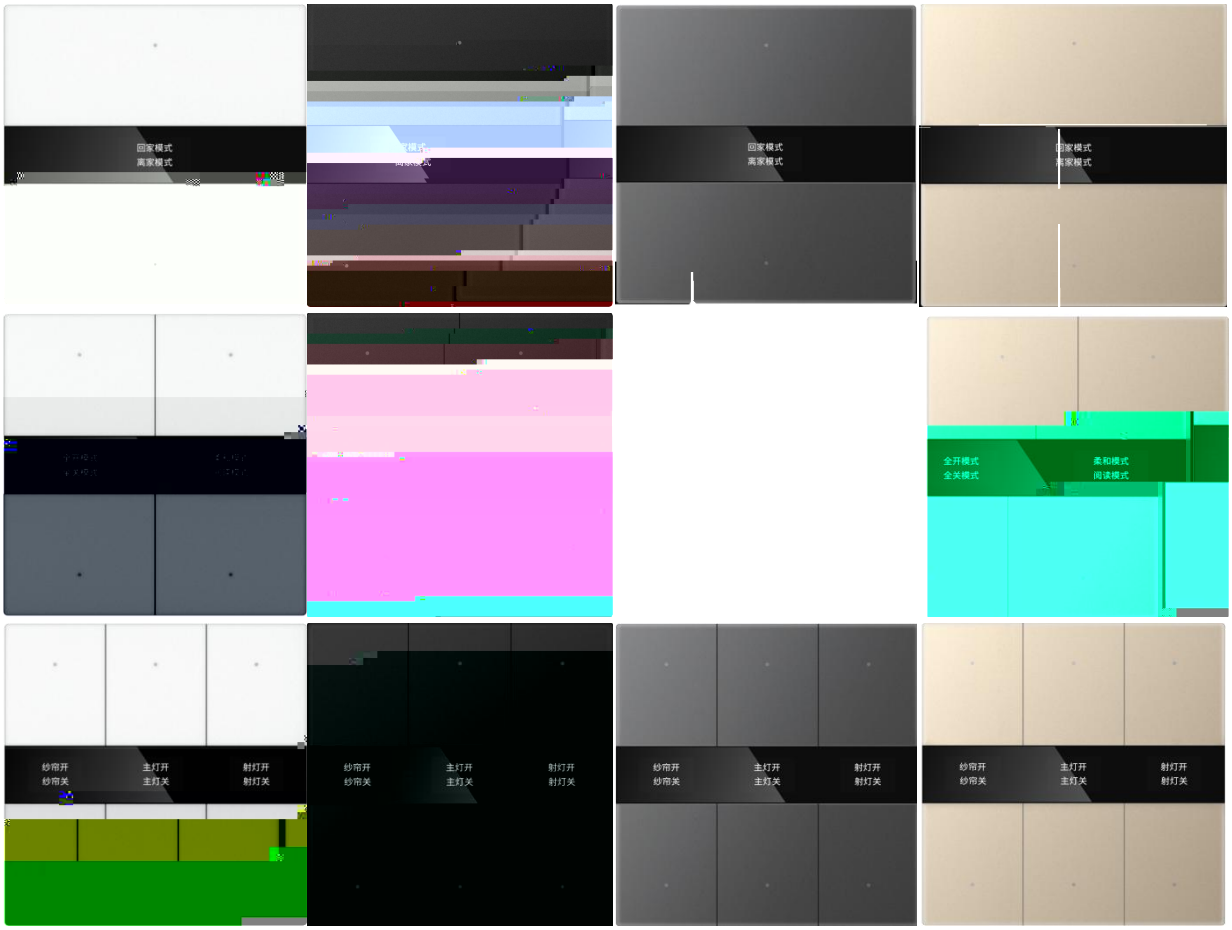
CHPBD-02/12.x.1y

CHPBD-04/24.x.1y

CHPBD-06/36.x.1y

x=1 x=2

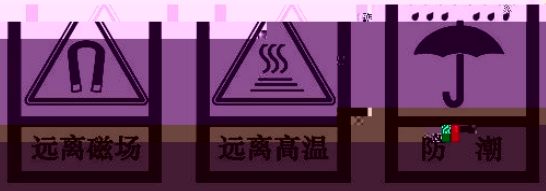
y=0 y=1 y=3 y=4



KNX/EIB

注意事项

1、请远离强磁场、高温、潮湿等环境；



2、不要将设备掉落；

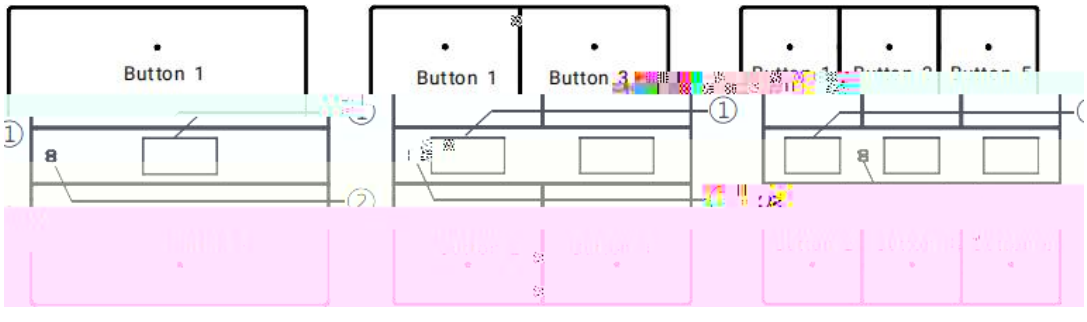


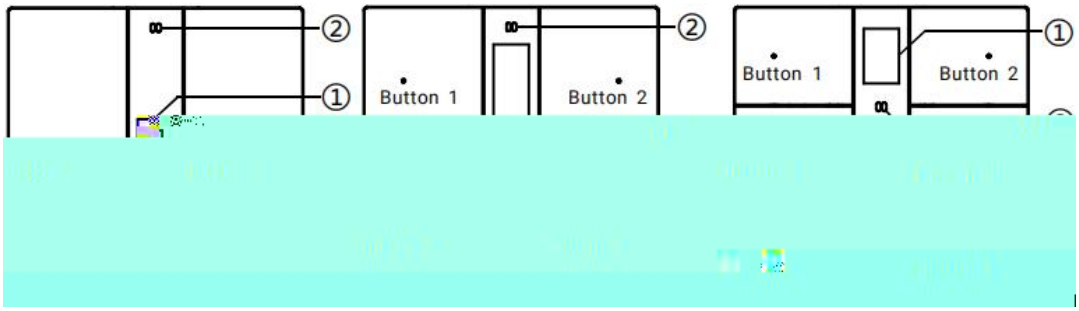
3、不要使用湿布或具挥发性的试剂擦拭设备；

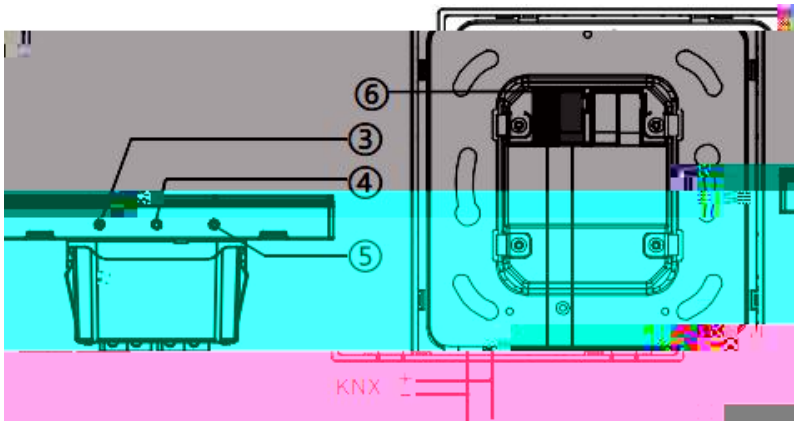
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□
□
□ □

3.2.







F ϟ

F □ ϑ □

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4 , 4 , □ 3

□ ! □ k

F k □ k

k

! ! □ ! ! ! □ ! ! □ k

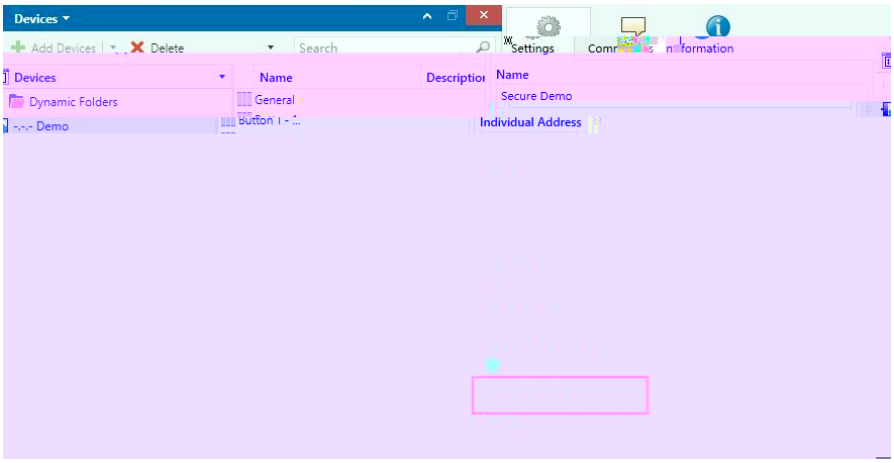
k

ES

5.1.KNX

❖ k

KNX



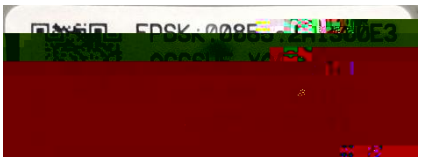
✧ k

FDSK KNX k

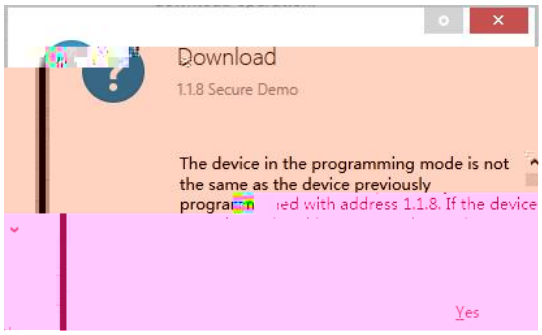
k

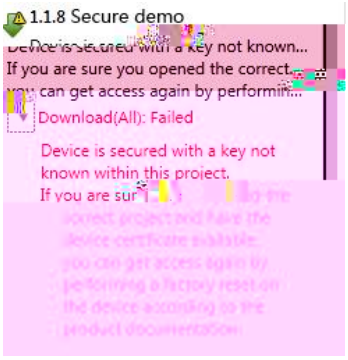
k



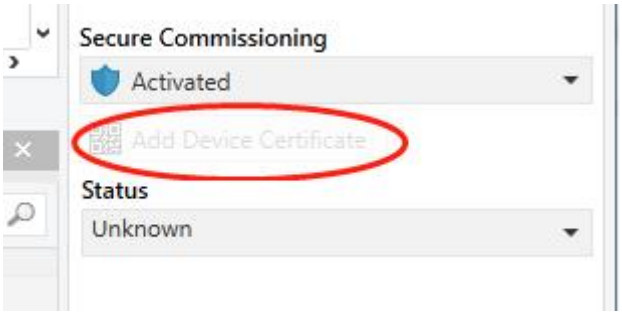


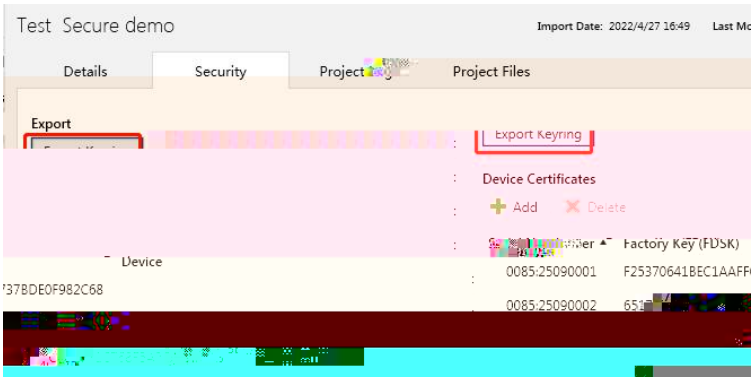
k


Download
1.1.8 Secure Demo
The device in the programming mode is not the same as the device previously
Yes


1.1.8 Secure demo
If you are sure you opened the correct
Download(All): Failed
Device is secured with a key not known within this project.

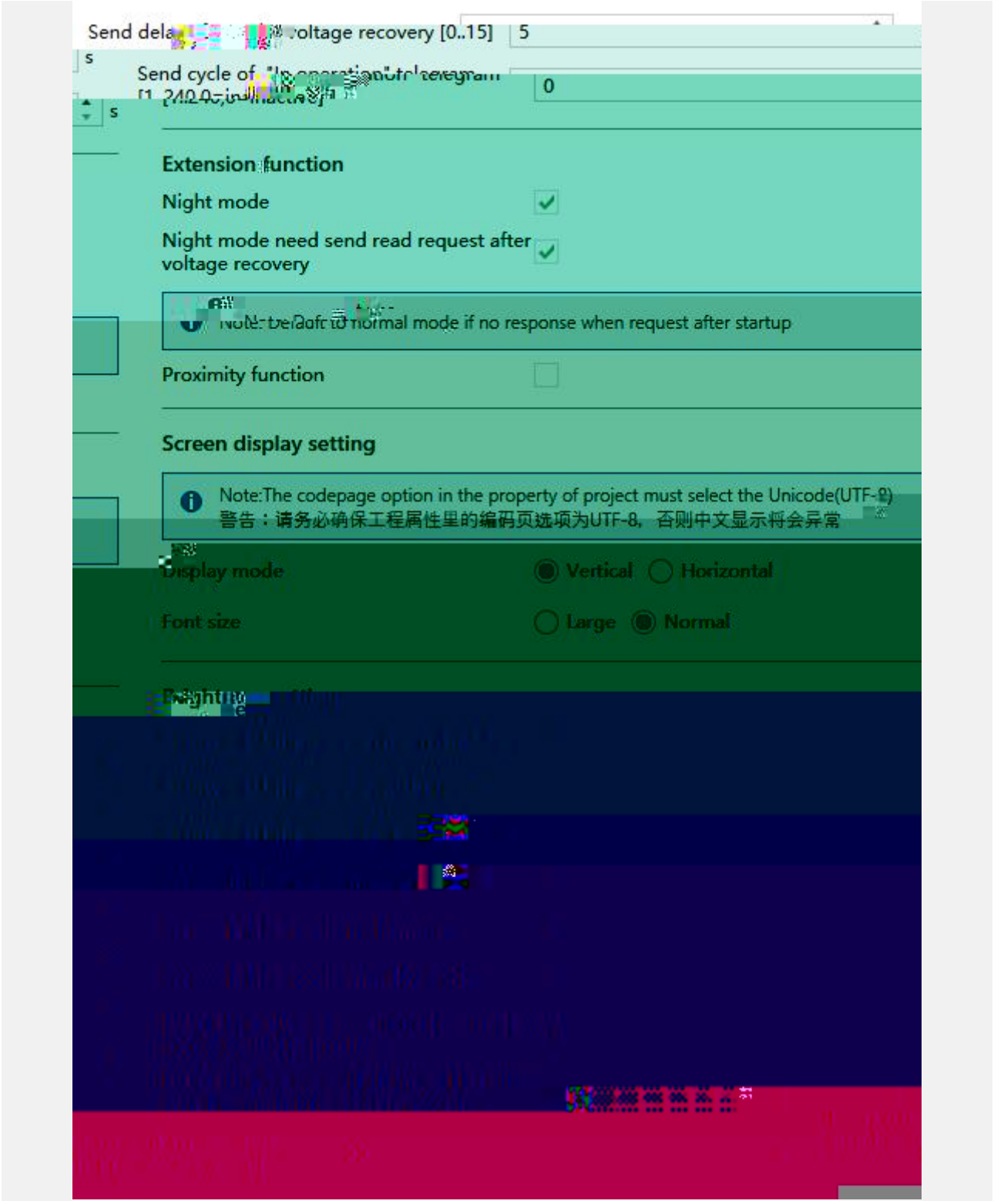
FDSK


Secure Commissioning
Activated
Add Device Certificate
Status
Unknown


Test Secure demo
Import Date: 2022/4/27 16:49
Details
Security
Project
Project Files
Export
Export Keyring
Device Certificates
Add
Delete
Factory Key (FDSK)
Device
0085:25090001
0085:25090002

5.2. “General”

5.2.1. “General setting”





"Send delay after voltage recovery [0..15]"

□ k 0..15 s

□ k

"Send cycle of "Send cycle of "In operation" telegram [1..240,0=inactive]"

□ □ □□ □□ □ □□□ □□

"Status LED brightness in night mode"

□ □ k □ k

0%

5%

10%

20%

...

100%

"Status LED brightness in standby mode"

□ □ □ □ □ k □ □ k

5%

10%

20%

...

100%

"Screen brightness in normal mode"

□ □ k

20%

30%

...

100%

"Screen brightness in night mode"

□ □ k □ k

20%

30%

...

100%

"Screen brightness in standby mode"

□ □ □

5.2.2. “P

5.2.3. “Advanced setting”



-5.0K

...

0.0K

...

5.0K

□ 30 □ □

□ k

"Send temperature when the result change by"

□ □ □ □ k k

Disable

0.1K

0.2K

0.3K

0.5K

1.0K

...

10K

"Cyclically send temperature [0...255.0=inactive]"

□ k k 0..255 min

□ k

"Send alarm telegram for low/high temperature"

k

No respond

Respond after read only

Respond after change

□

□

k

k

- “Threshold value for low temperature alarm [0..15]”

  k □ □ k

  0°C

  1°C

  ...

  15°C

- “Threshold value for high temperature alarm [30..45]”

  k □ □ k

  30°C

  31°C

  ...

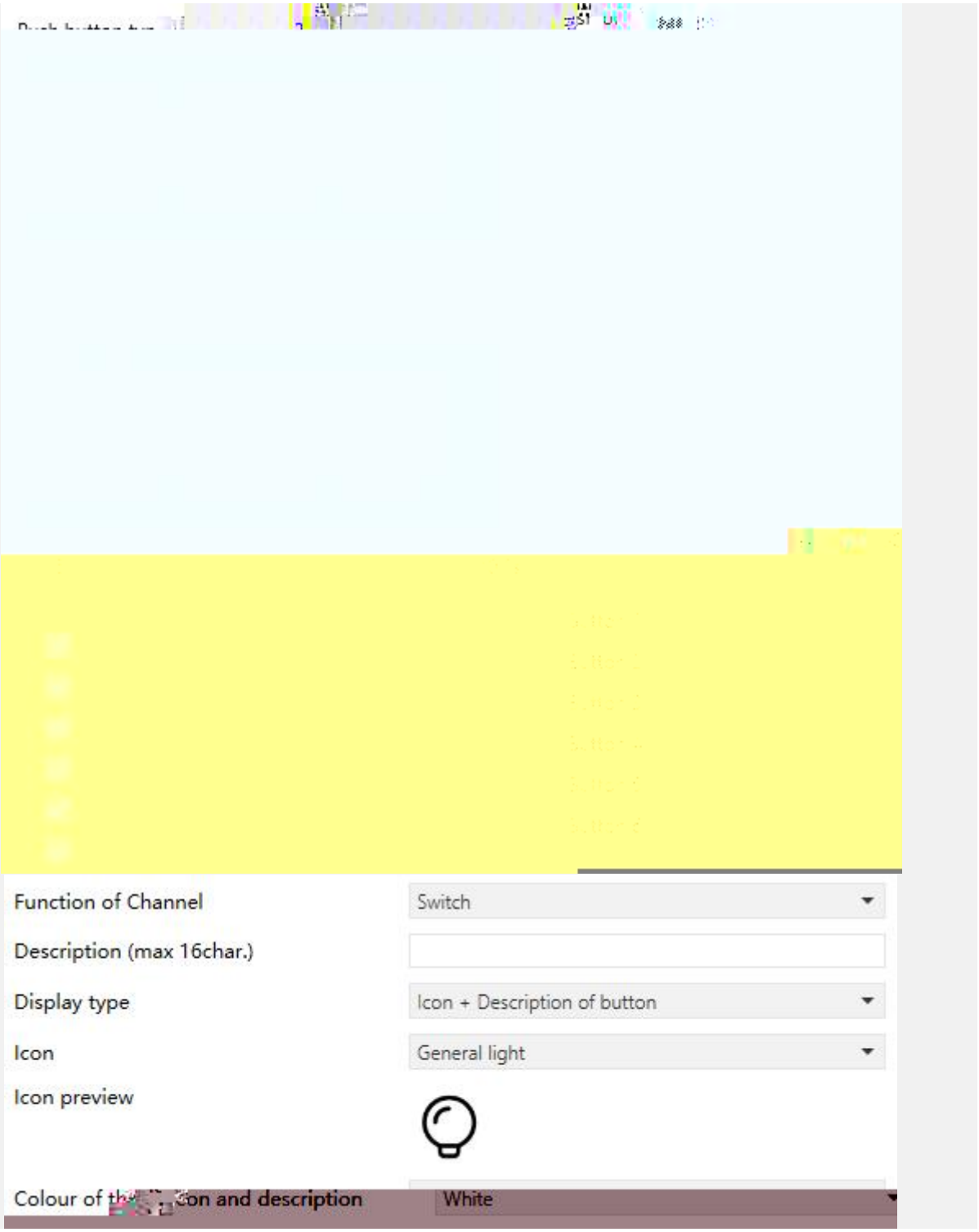
  45°C

5.4. “Button”

!

k

k


Function of Channel
Switch
Description (max 16char.)
Display type
Icon + Description of button
Icon
General light
Icon preview
Colour of th
on and description
White

"Push button type"

k k

k

" Long operation for button after [3..250]"

k

k 3..250 *0.1s

"Button x" (x=1~6)

k

"Function of Channel"

k

Switch

Dimming

RGB switching/sena ZEPYI

RGBW switching/sena ZEPYI

Colour temperature switching/sena ZEPYI

Value senar ف

Scene control

Blina

7LNXregister

1 YPXMRoperation

(I PE] moa ف

"Description (max.16char.)"

□ k k

k

Display +

k

Description of button

Icon only

Icon + Description of button +

"Icon"

"Icon preview"

k

General light

...

Not Disturb

□ k

"Colour of the icon and description"

□ □ □

ON

TOGGLE

k

□

□ □ □ □

□ □ □ □ □ □

□ □ k

"Number of objects"

□

k □ k

1

2

"Disable function"

k

Disable

Disable=1/Enable=0

Disable=0/Enable=1

" " "Status LED indication when button disable"

k

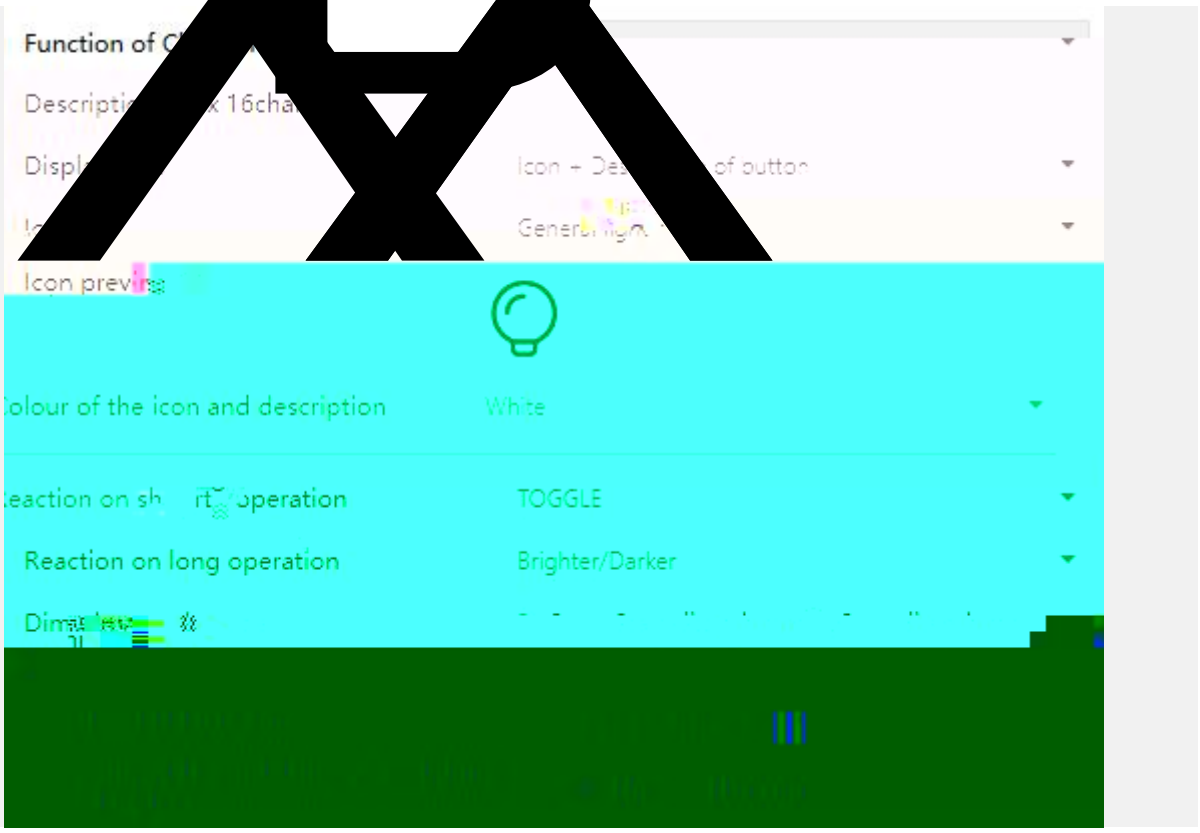
□ k

No

Flashing

□

5.4.2.



"Reaction on short operation"—

100%

50%

...

1.56%

“ Interval of tele. cyclic send [0..25,0=send once]”

k k

0..25 *0.1s 0=

5.4.3. RGB



“Object datatype of absolute brightness”

k

1x3byte	3byte	RGB
3x1byte	1byte	RGB

"Reaction on short operation"

"Reaction on long operation"

k

No reaction

OFF

ON

TOGGLE

Absolute value

" " "RGB value"

□ k k

#000000..#FFFFFF

5.4.4. RGBW



"Object datatype of absolute brightness"

k

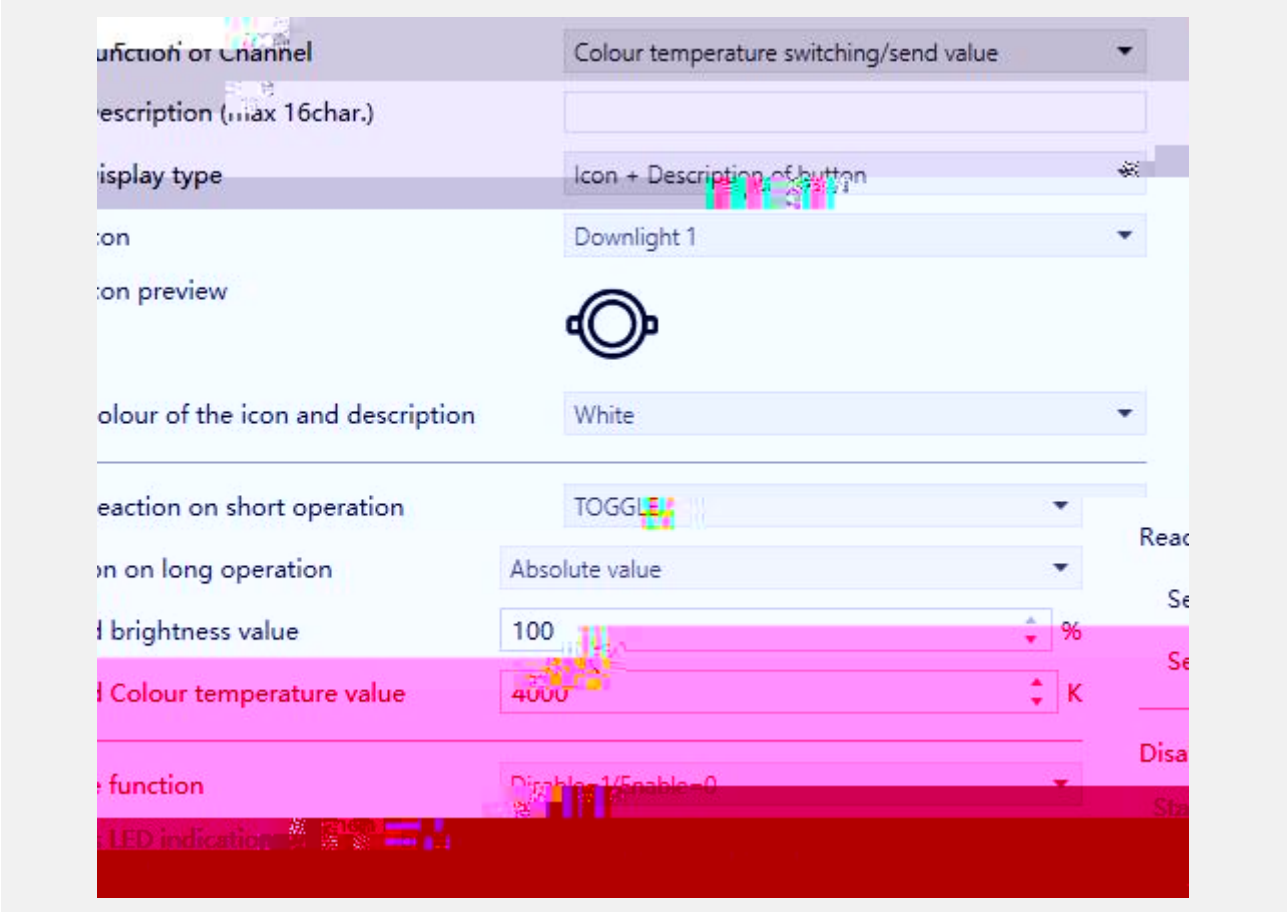
1x6byte	6byte	RGBW
4x1byte	1byte	RGBW

"Reaction on short operation"

"Reaction on long operation"

k

5.4.5.



"Reaction on short operation"

"Reaction on long operation"

k

No reaction

OFF

ON

TOGGLE

Absolute value

- "Send brightness value"

□ k □ k

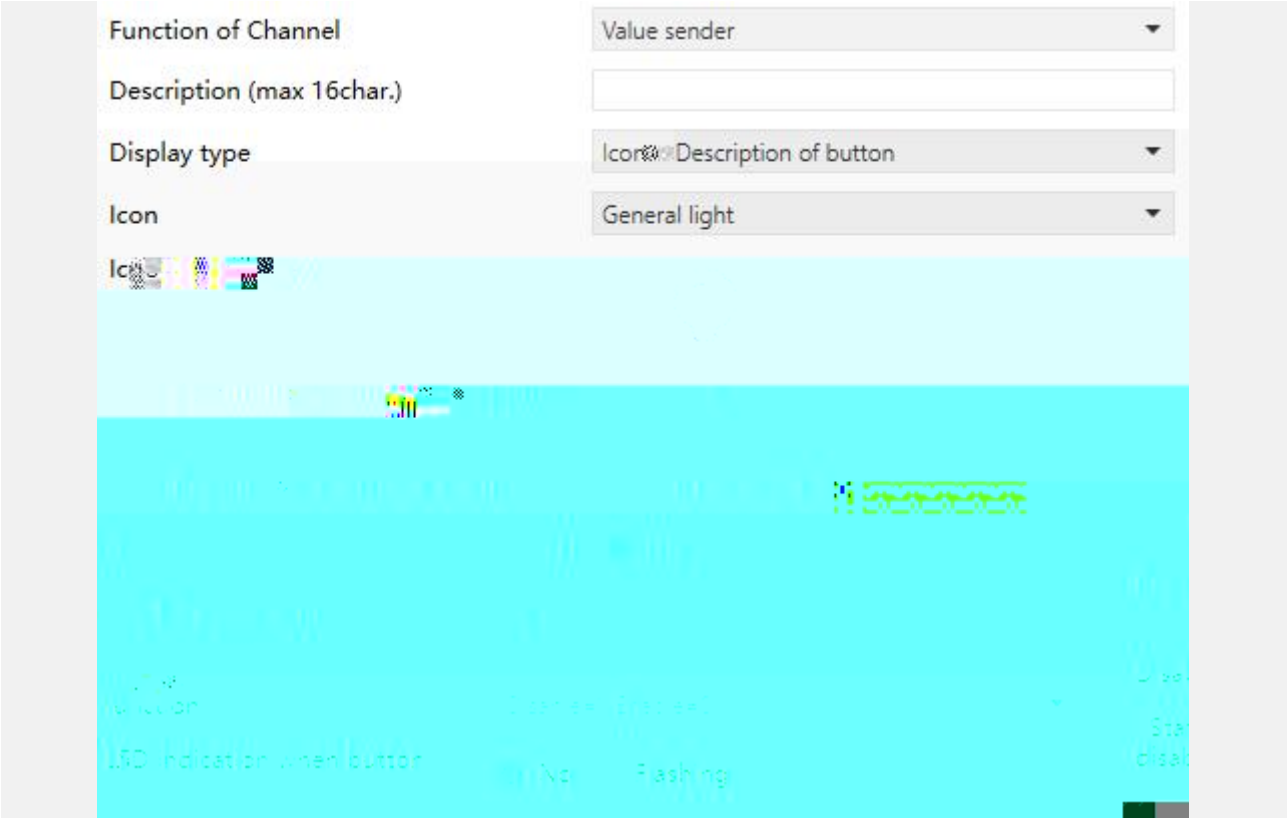
0..100%

• • "Send Colour temperature value"

□ k k

1000...10000K

5.4.6.



"Reaction on short operation"

"Reaction on long operation"

k

No reaction

1bit value[On/Off]

2bit value[0..3]

4bit value[0..15]

1byte value[0..255]

2byte value[0..65535]

2byte float value

4byte value[0..4294967295]

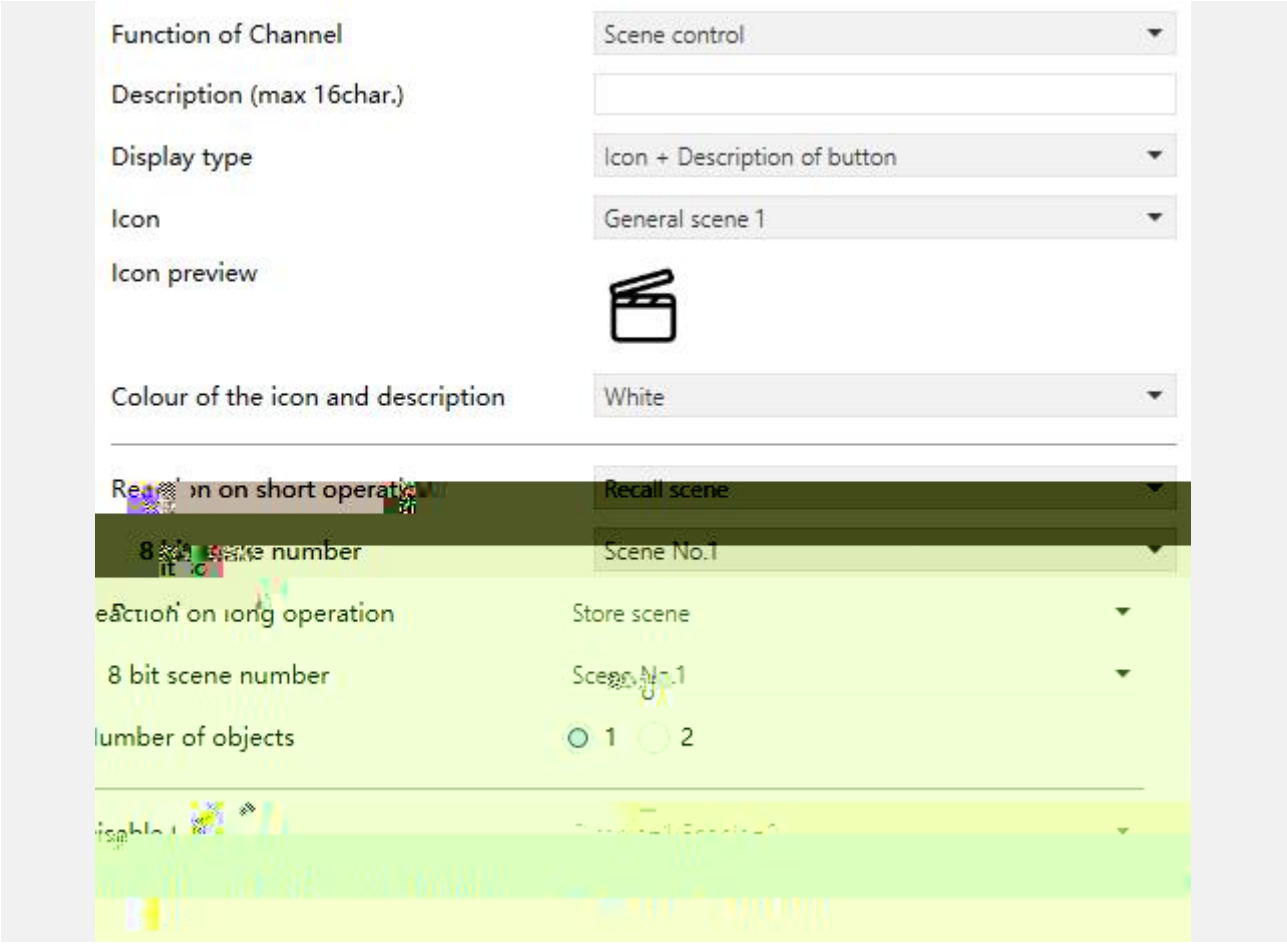
4byte float value

* * "Value 1/2"

□ k k

k

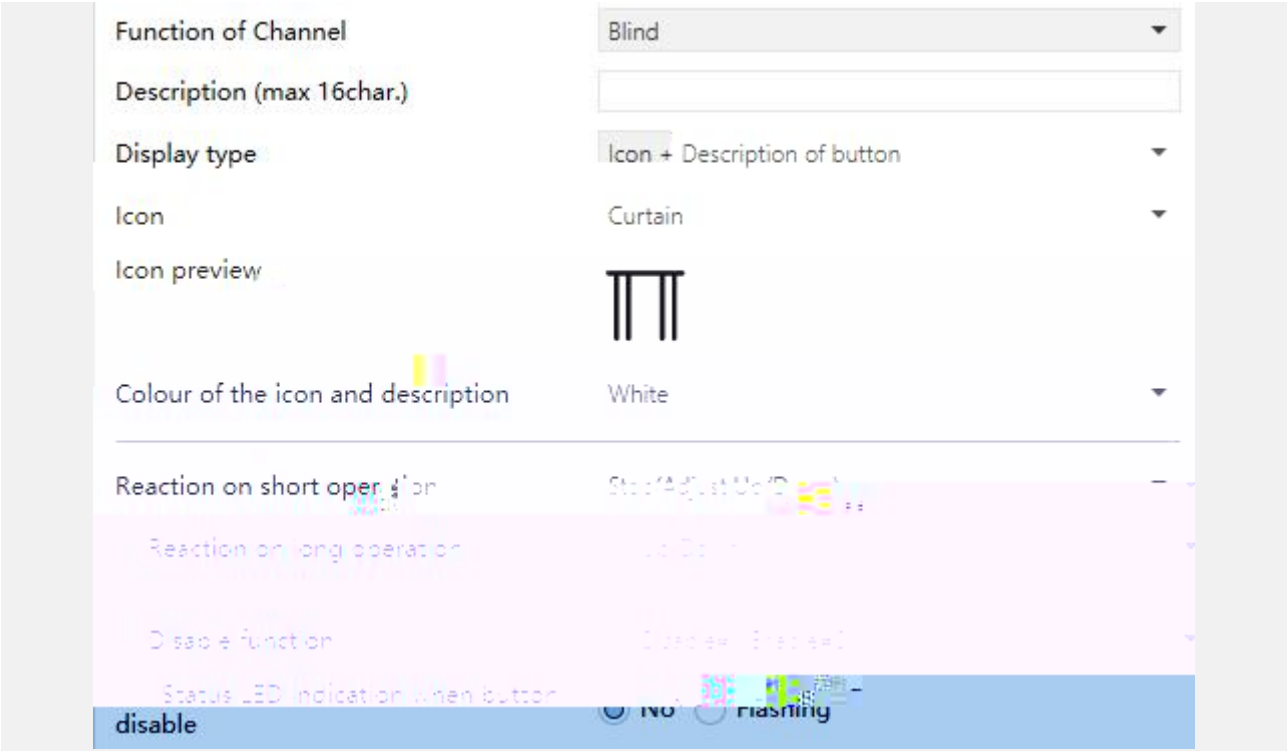
5.4.7.



"Reaction on short operation"

"Reaction on long operation"

5.4.8. □



□

"Reaction on short operation"

"Reaction on long operation"

k

No reaction

Up

Down

Up/Down

Stop(Adjust Up)

Stop(Adjust Down)

Stop(Adjust Up/Down)

k

□ □ □

□ □

□ □ k

□ □

□ □

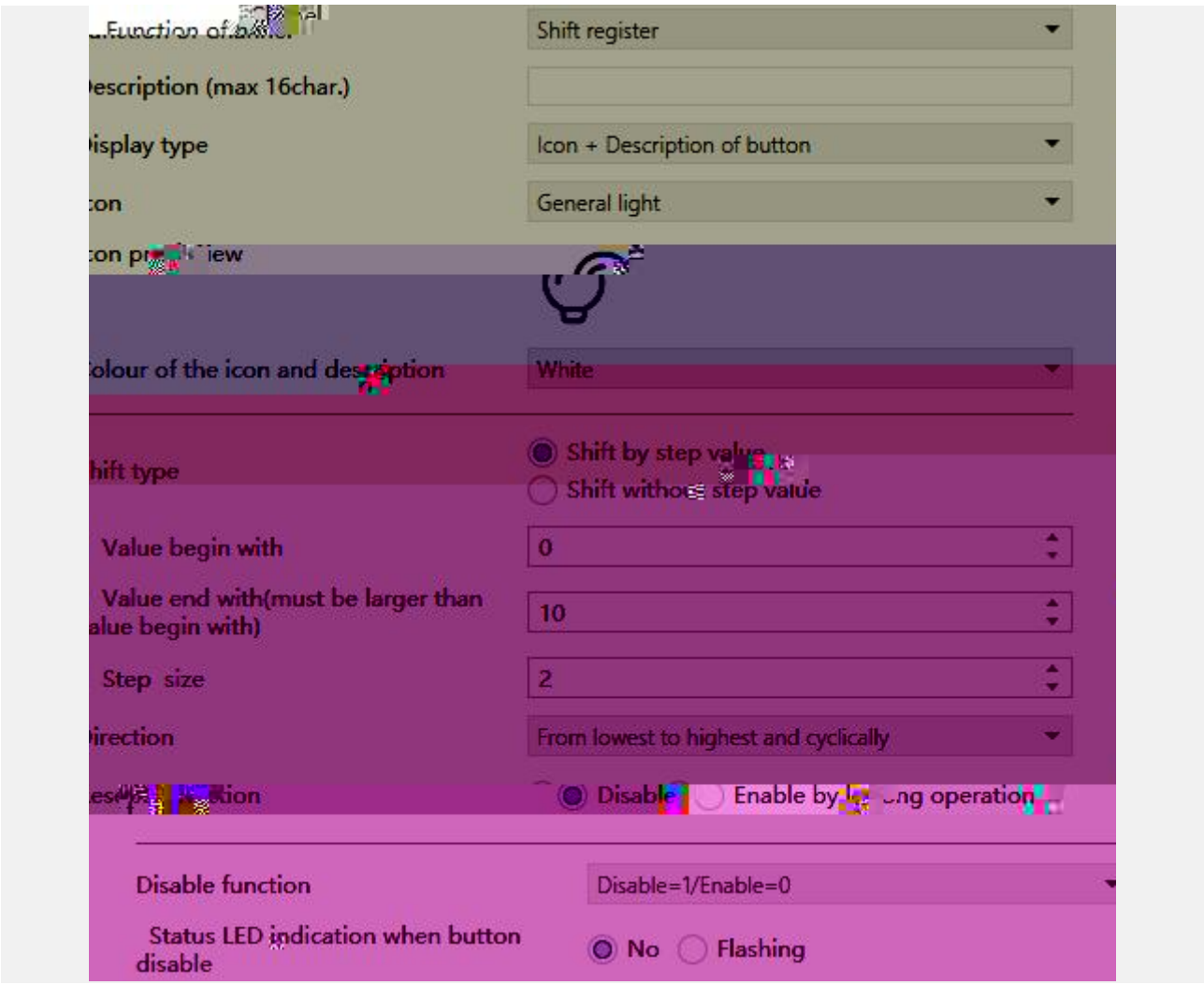
□ □ k

" Interval of tele. cyclic send [0..25.0=send once] "

k □ k

0..25 *0.1s 0

5.4.9.


Shift register
escription (max 16char.)
isplay type
Icon + Description of button
on
General light
on pr iew
olour of the icon and des iption
White
hift type
Shift by step value
Shift withoes step value
Value begin with
0
Value end with(must be larger than alue begin with)
10
Step size
2
irection
From lowest to highest and cyclically
es tion
Disable
Enable by ng operation
Disable function
Disable=1/Enable=0
Status LED indication when button disable
No
Flashing

- “Shift by step value”

  - “Value begin with”

    0..240

  - “Value end with(must be larger than value begin with)”

    1..250

  - “Step size”

    0..240

- “Shift without step value”

  “Object datatype”

  1byte unsigned value/Scene number/HVAC mode

  - “Shift number”

    1/2../10

  - “Value x”(x=1~10)

    0..255/Scene No.1~64/Comfort mode/Standby mode/Economy mode/Frost/heat protection

“Direction”

From lowest to highest and stop to the end

From highest to lowest and stop to the begin

From lowest to highest and cyclically

From highest to lowest and cyclically

k

k

□ □

k

□ □ □

k

"Reset function"

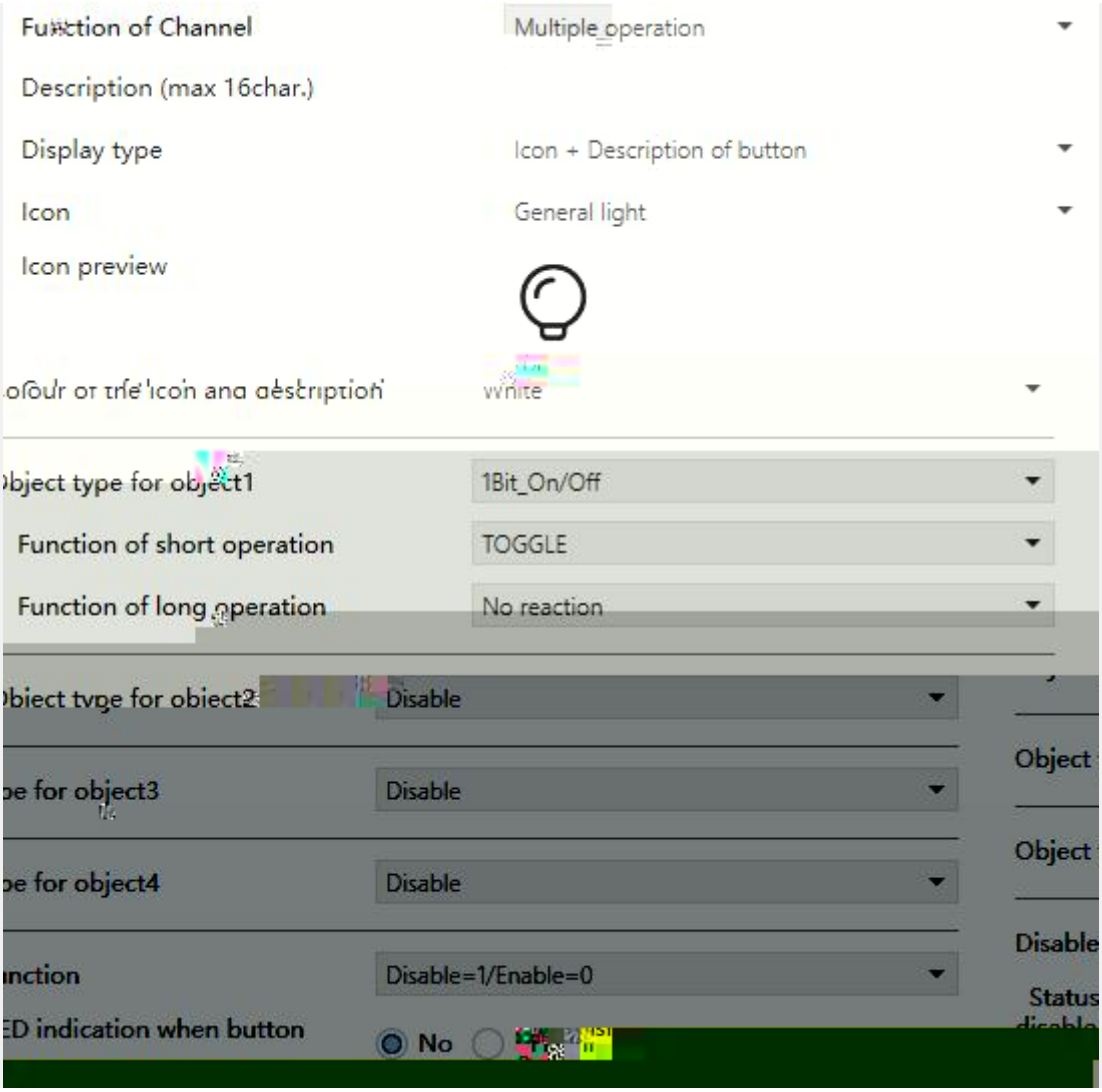
k

Disable

Enable by long operation

□ k

5.4.10.



"Object type for object x"(x=1~4)

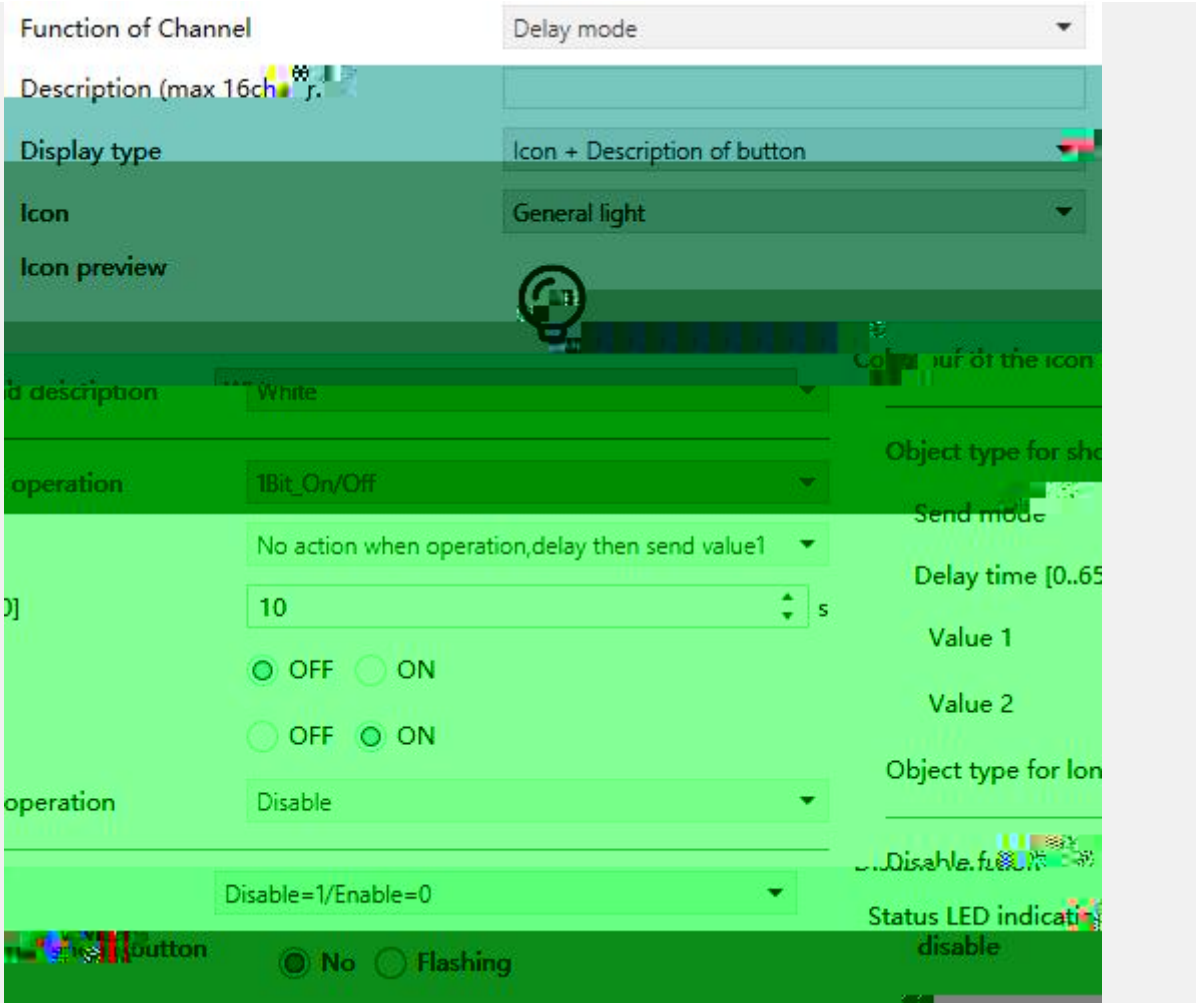
- “Function of short operation”
- “Function of long operation”

k

- “Value x...”(x=1~2)

k k k

5.4.11. □ □



□ □

"Object type for short operation"

"Object type for long operation"

k

Disable

1Bit_On/Off

4Bit_Dimming

1Byte_Unsigned value

" Send mode"

□ k

No action when operation,delay then send value1 □ 1

No action when operation,delay then send value2 □ 2

Send value1 when operation,delay then send value2 1 □ 2

Send value2 when operation,delay then send value1 2 □ 1

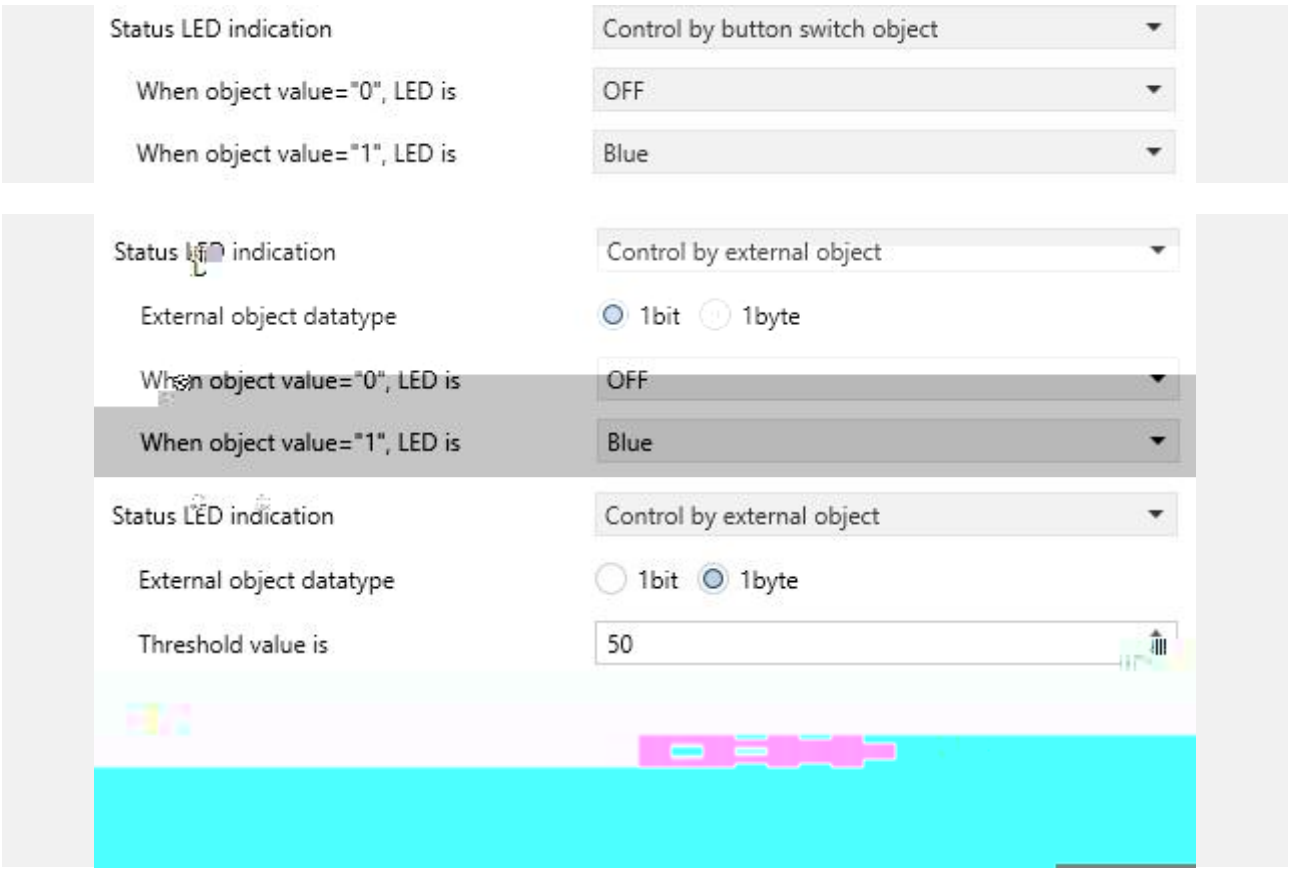
" Delay time [0..6500]"

□ k 0..6500 s

"Value x"(x=1~2)

k k

5.4.12. LED


Status LED indication
Control by button switch object
When object value="0", LED is
OFF
When object value="1", LED is
Blue
Status LED indication
Control by external object
External object datatype
1bit
1byte
When object value="0", LED is
OFF
When object value="1", LED is
Blue
Status LED indication
Control by external object
External object datatype
1bit
1byte
Threshold value is
50

"Status LED indication"

k □ □ □

Disable

Control by button switch object □

Control by external object

Indicate button press

Always on

□ □ □ □

k

□ LED "Control by button switch object" k

- "When object value="0", LED is"
- "When object value="1", LED is"

□ □ k

OFF	Orange	
Red	Cyan blue	
Green	Customized colour 1	1
Blue	Customized colour 2	2
White	Customized colour 3	3
Yellow	Customized colour 4	4
Cyan	Customized colour 5	5
Magenta		

LED “Control by external object” k

• • “External object datatype”

k

1bit

1byte

k

k

• • “When object value="0", LED is”

• • “When object value="1", LED is”

k

OFF	Orange	
Red	Cyan blue	
Green	Customized colour 1	1
Blue	Customized colour 2	2
White	Customized colour 3	3
Yellow	Customized colour 4	4
Cyan	Customized colour 5	5
Magenta		

k

- “Threshold value is”

  k 1..255

- “If object value<threshold value, LED is”

- “ If object value=threshold value, LED is”

- “ If object value>threshold value, LED is”

k

OFF	Orange	
Red	Cyan blue	
Green	Customized colour 1	1
Blue	Customized colour 2	2
White	Customized colour 3	3
Yellow	Customized colour . ge	. yan (+ !
	Customized colour 5	5
Magenta		



- LED “Ind]ə ǎl!

5.5. “Logic”



“1st/2nd/3rd…Logic function”

□ □ k k

“Description for logic function”

□ k k

“Function of channel”

k

AND

OR

XOR □

Gate forwarding

Threshold comparator

Format convert □

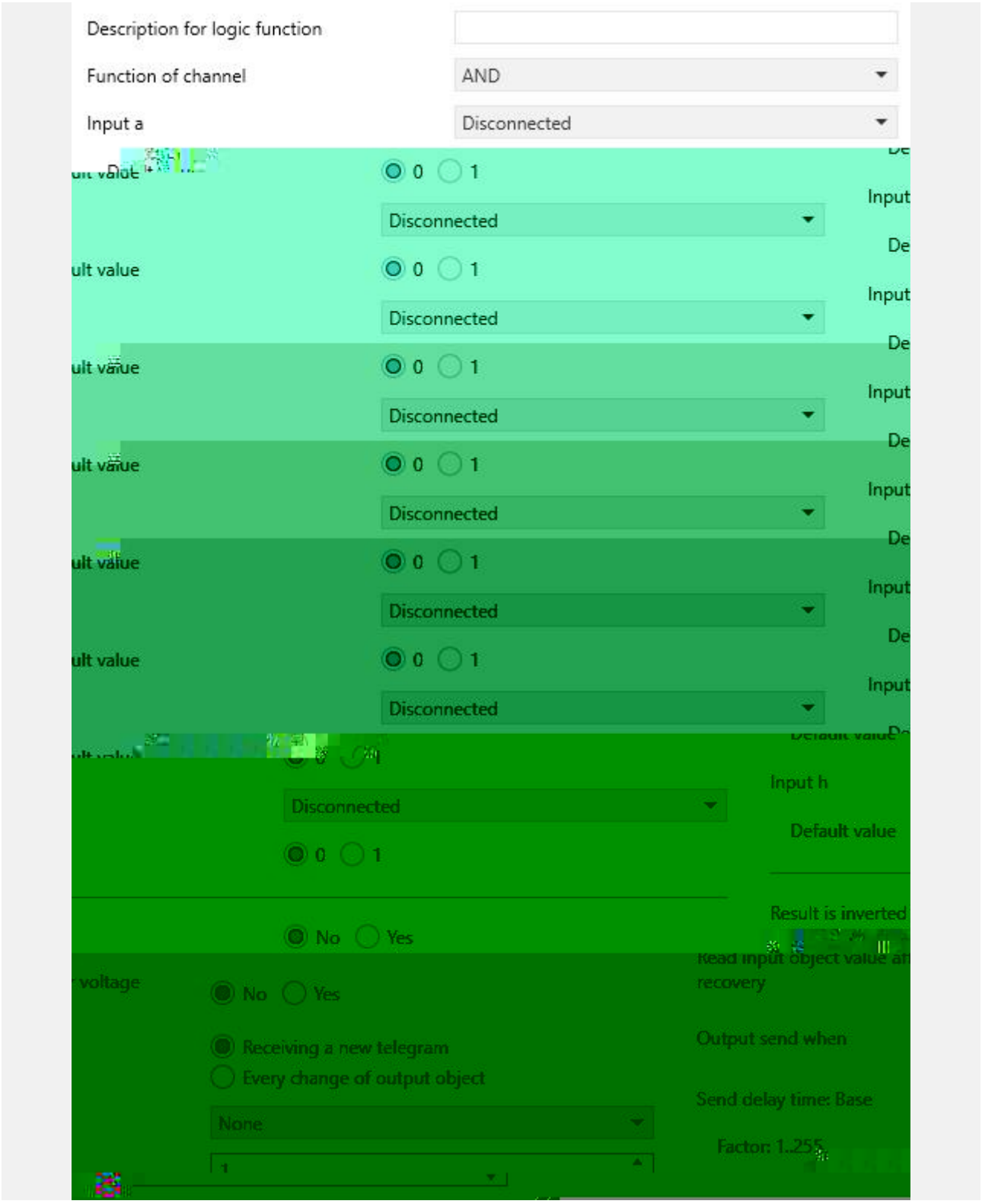
Gate function

Delay function □

Staircase lighting

k

5.5.1. “AND/OR/XOR”



"Input a/b/c/d/e/f/g//h"

k

Disconnected

Normal

Inverted

k k

- - "Default value"

k

0

1

"Result is inverted"

k

No

Yes

k

"Read input object value after bus voltage recovery"

k

No

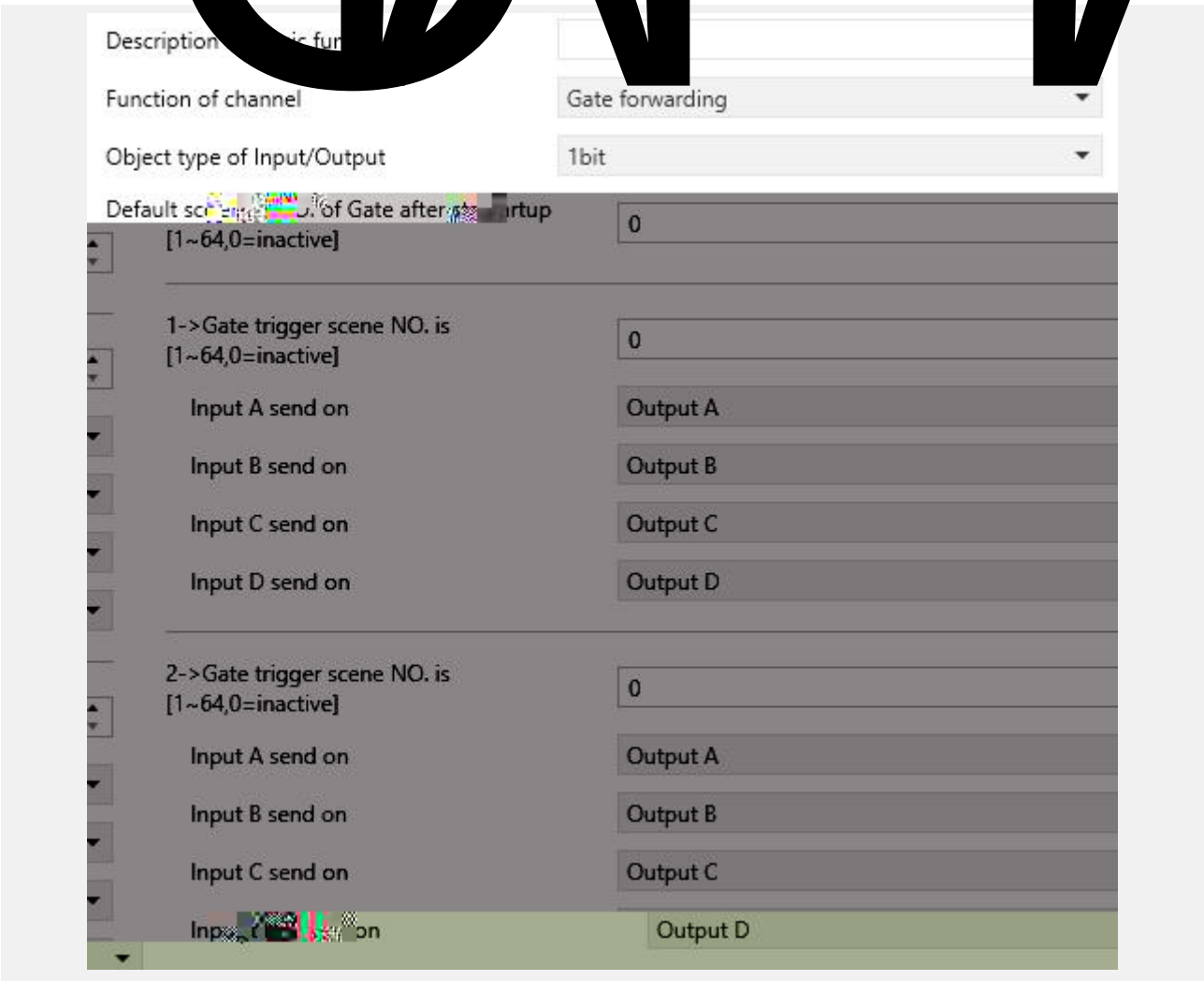
Yes

k

Receiving a new telegram

Every change of output object

5.5.2. “Gate forwarding”



“Object

□ k

"z->Gate trigger scene NO. is [1~64 0=inactive]"(z=1~8)

k k

0..64 0=

" " "Input A/B/C/D send on"

k

Disable

Output A

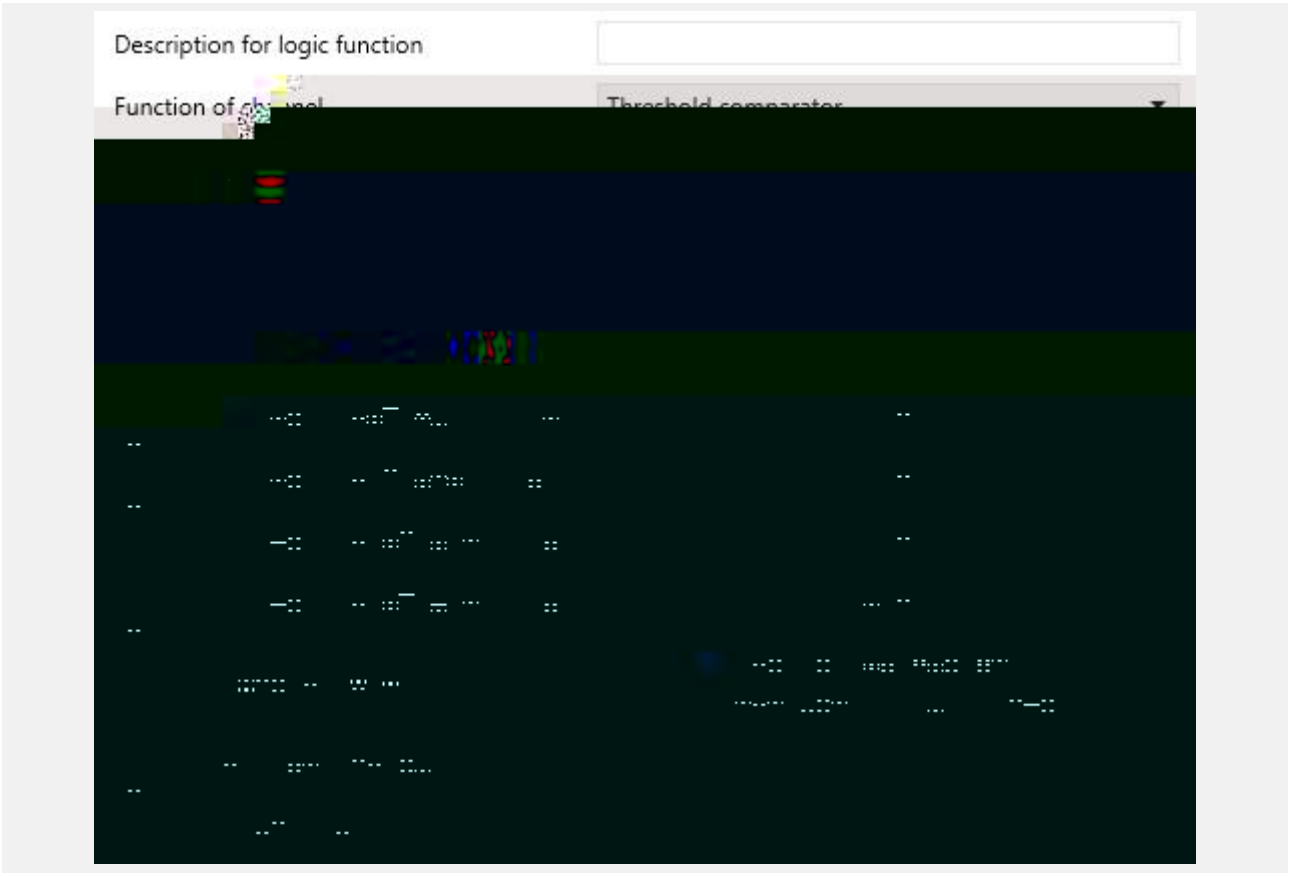
Output B

...

Output B,C,D

k k

5.5.3. “Threshold comparator”



Threshold value data type

k

4bit value (DPT3.007)	4byte unsigned value[0..4294967295]
1byte unsigned value (DPT5.010)	Ext. temperature value (DPT 9.001)
2byte unsigned value (DPT7.001)	Ext. humidity value (DPT 9.007)
2byte signed value (DPT8.x)	Illuminance value (DPT 9.004)
2byte float value (DPT9.x)	

Threshold value:

k

4bit value (DPT3.007) 0..15 /1byte unsigned value (DPT5.010) 0..255 /

2byte unsigned value (DPT7.001) 0..65535 / 2byte signed value (DPT8.x) -32768..32767 /



1 □ 1 k

"Output 'send when"

k

Receiving a new telegram

Every change of output object

k

k

"Send delay time"

Base: None

0.1s

1s

...

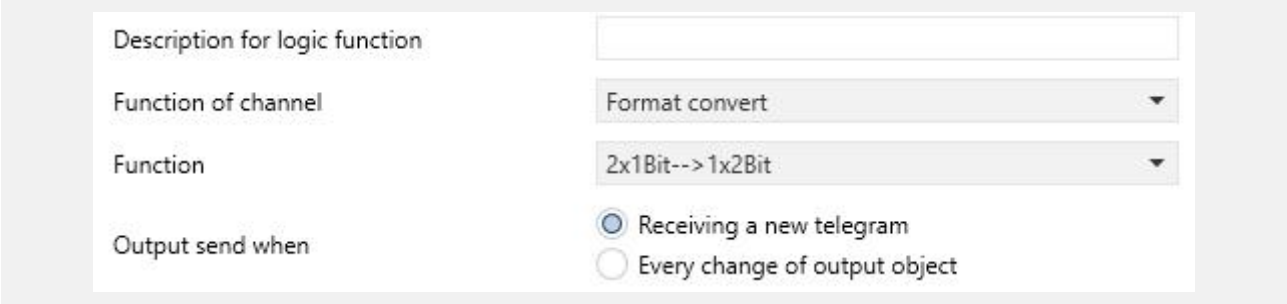
10s

25s

Factor: 1..255

□ k □ □ k

5.5.4. “Format ”



“Function”

k

2x1bit-->1x2bit

8x1bit-->1x1byte

1x1byte-->1x2byte

2x1byte-->1x2byte

2x2byte-->1x4byte

1x1byte-->8x1bit

1x2byte-->2x1byte

1x4byte-->2x2byte

1x3byte-->3x1byte

3x1byte-->1x3byte

“Output send when”

k

Receiving a new telegram

Every of output object

k

k

5.5.5. “Gate function”



“Object type of Input/Output”

k

1bit[On/Off]

1byte[0..100%]

1byte[0..255]

2byte[Float]

2byte[0..65535]

“Filter function”

k

k

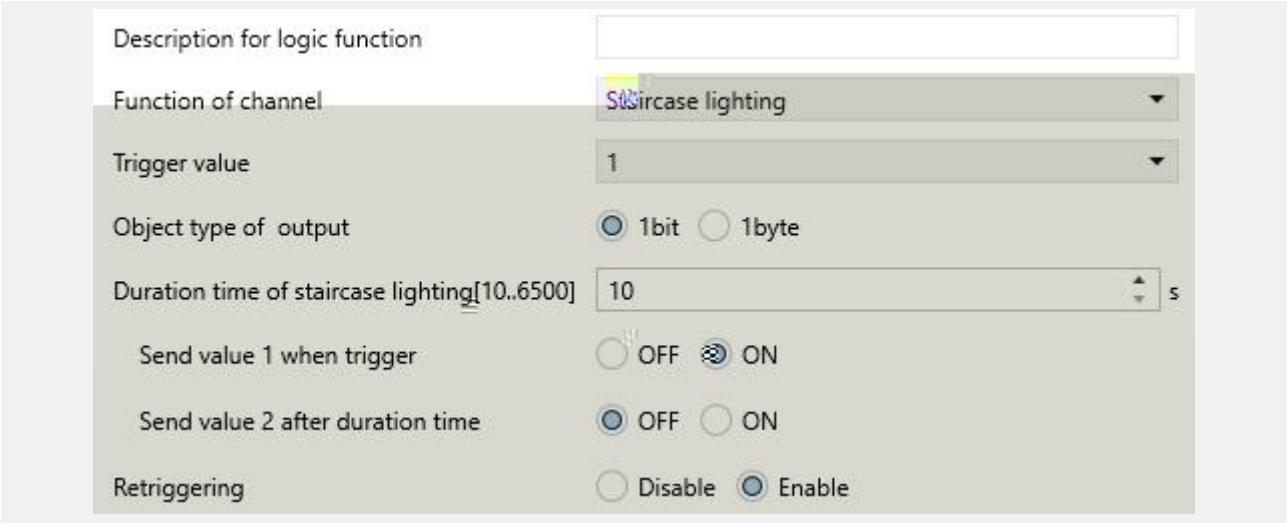
Deactivate

On filter out

Off filter out

k

5.5.7. “Staircase lighting”



“Trigger value”

k

0

1

0 or 1

“Object type of output”

k

1bit

1byte

“Duration time of staircase lighting[10..6500]s”

□ k 10..6500

“Send value 1 when trigger”

“Send value 2 after duration time”

k □ □ □ k

k

OFF

ON

0..255

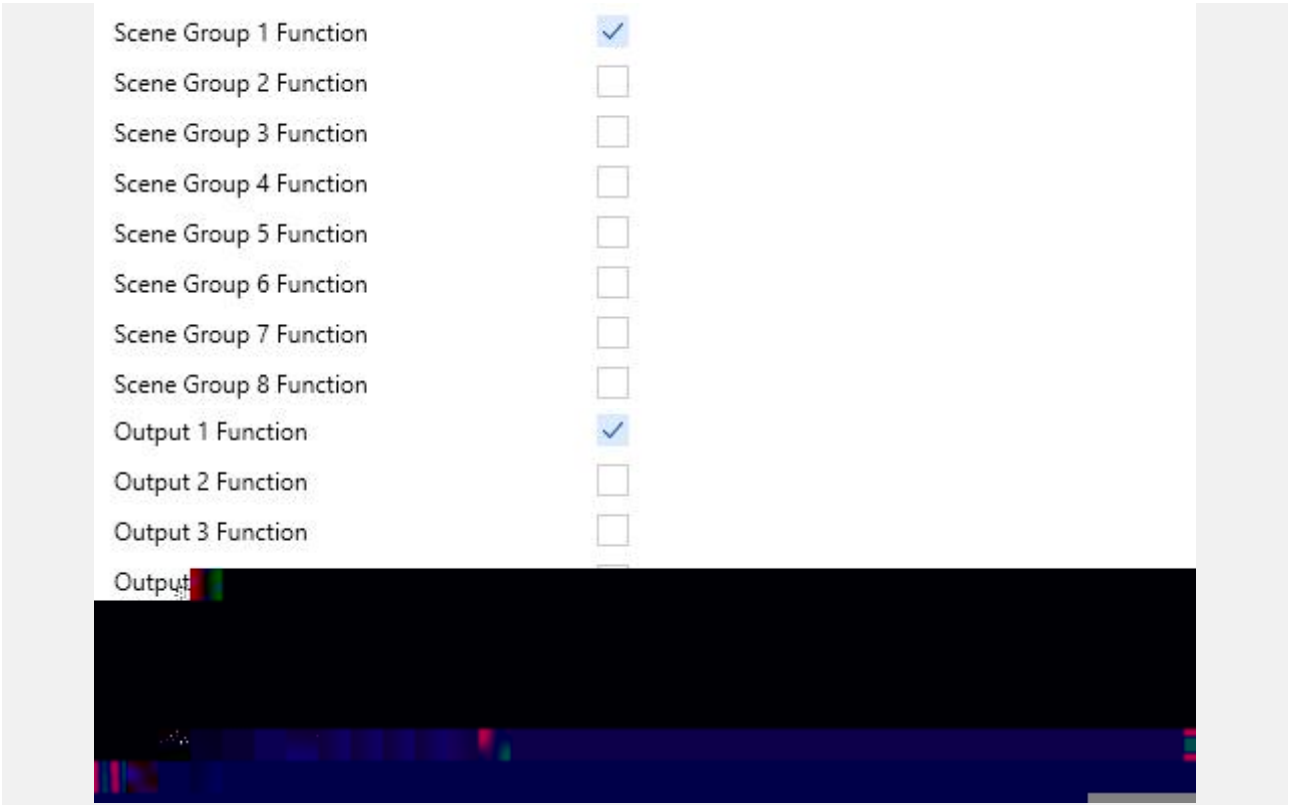
"Retriggering"

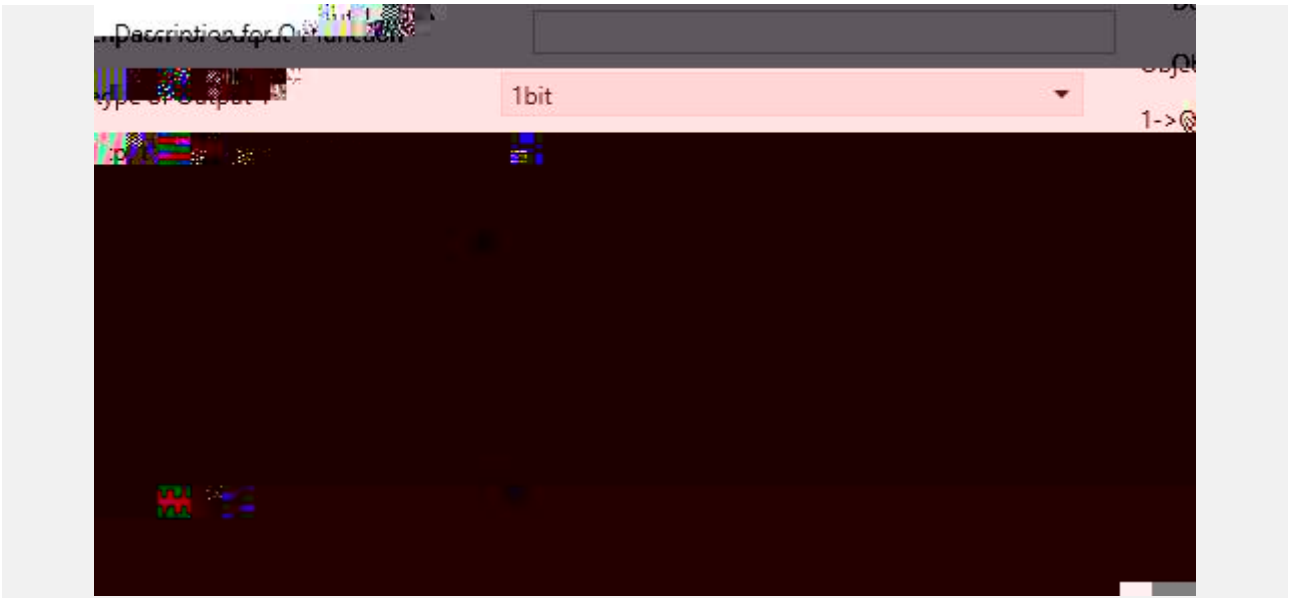
□ k

Disable

Enable

5.6. “Scene Group”





“Scene Group x Function”(x=1~8)

k

"Object value of Output y"

- 0..1
- 0..255
- Comfort mode
- Standby mode
- Economy mode
- Frost/heat protection
- 0..65535
- -5°C
- -4°C
- ...
- 45°C

"Delay time for sending [0...255]*0.1s"

- k 0..255

k

“C” “W” “R”

“T” “U” k

6.1.“General”

Num	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	I	Data Type	Priority
1	General	In operation			1 bit	C	R	-	T	-	-	switch	Low
184	Extension function	Night mode			1 bit	C	-	W	T	U	-	day/night	Low
185	Extension function	Dis/En Proximity function			1 bit	C	-	W	-	-	-	enable	Low
186	Extension function	Proximity input			1 bit	C	-	W	-	-	-	switch	Low
187	Extension function	Proximity output			1 bit	C	-	-	T	-	-	switch	Low
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
189	Extension function	Screen on/off			1 bit	C	-	W	-	-	-	switch	Low

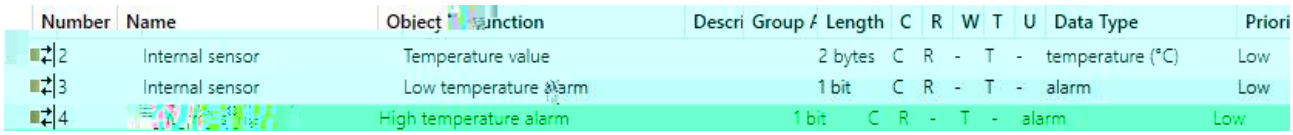
function

1	In operation	General	1bit	C,R,T	1.001 switch
184	Night mode	Extension function	1bit	C,W C,W,T,U	1.024 day/night

k

187	Proximity output	Extension function	1bit 1byte	C,T	1.001 switch 5.010 counter pulses 17.001 scene number 5.001 percentage
		□		□	
		k		k	
188	Panel orientation indication	Extension function	1bit	C,W	1.017 trigger

6.2.“Internal sensor”

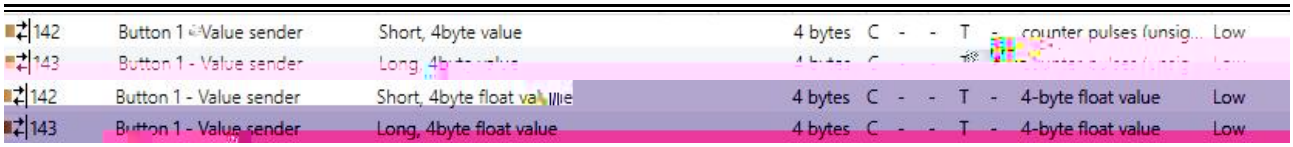


Number	Name	Object function	Descri	Group A	Length	C	R	W	T	U	Data Type	Priori
2	Internal sensor	Temperature value			2 bytes	C	R	-	T	-	temperature (°C)	Low
3	Internal sensor	Low temperature alarm			1 bit	C	R	-	T	-	alarm	Low
4		High temperature alarm			1 bit	C	R	-	T	-	alarm	Low

□ □

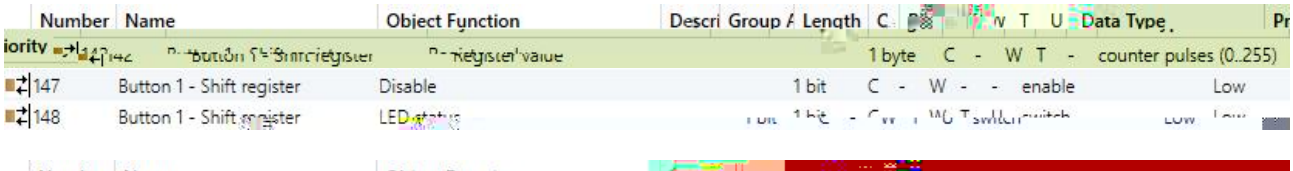
2	Temperature value	Internal sensor	2byte	C,R,T	9.001 temperature
		□ □ k			
3	Low temperature alarm	Internal sensor	1bit	C,R,T	1.005 alarm
		□ □			k
4	High temperature alarm	Internal sensor	1bit	C,R,T	1.005 alarm
		□ □			k

6.3.“Button” □□ □□□ □ □ □□ □□ □ □□ □ □ □□ □

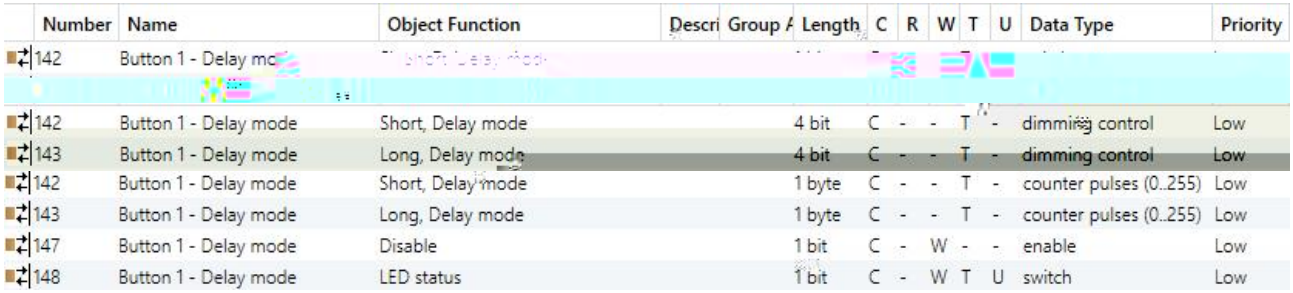


	Number	Name	Object Function	Descri	Group A	Length	C	R	W	T	U	Data Type	Priority
	142	Button 1 - Scene	Scene			1 byte	C	-	-	T	-	scene control	Low
	142	Button 1 - Scene	Short, Scene			1 byte	C	-	-	T	-	scene control	Low
	143	Button 1 - Scene	Long, Scene			1 byte	C	-	-	T	-	scene control	Low
	147	Button 1 - Scene	Disable			1 bit	C	-	W	-	-	enable	Low
	148	Button 1 - Scene	LED status			1 bit	C	-	W	T	U	switch	Low









	Number	Name	Object Function	Descri	Group A	Length	C	R	W	T	U	Data Type	Priority
	142	Button 1 - Delay mode	Short, Delay mode			4 bit	C	-	-	T	-	dimming control	Low
	143	Button 1 - Delay mode	Long, Delay mode			4 bit	C	-	-	T	-	dimming control	Low
	142	Button 1 - Delay mode	Short, Delay mode			1 byte	C	-	-	T	-	counter pulses (0..255)	Low
	143	Button 1 - Delay mode	Long, Delay mode			1 byte	C	-	-	T	-	counter pulses (0..255)	Low
	147	Button 1 - Delay mode	Disable			1 bit	C	-	W	-	-	enable	Low
	148	Button 1 - Delay mode	LED status			1 bit	C	-	W	T	U	switch	Low

142	Switch	Button 1 - {{...}}	1bit	C,W,T,U	1.001 switch
142	Press/Short, Switch	Button 1 - {{...}}	1bit	C,W,T,U	1.001 switch
143	Release/Long, Switch	Button 1 - {{...}}	1bit	C,W,T,U	1.001 switch

142	Object1-On/Off Object1-Up/Down Object1-SceneControl Object1-Percentage Object1-Unsigned value	Button 1 - {{...}}	1bit 1bit 1byte 1byte 1byte	C,W,T C,W,T C,T C,T C,T	1.001 switch 1.008 up/down 18.001 scene control 5.001 percentage(0..100%) 5.010 counter pulses
k k					
142	Short, Delay mode	Button 1 - {{...}}	1bit 4bit 1byte	C,T	1.001 switch 3.007 dimming 5.010 counter pulses
143	Long, Delay mode	Button 1 - {{...}}	1bit 4bit 1byte	C,T	1.001 switch 3.007 dimming 5.010 counter pulses
□ □ k k					
147	Disable	Button 1 - {{...}}	1bit	C,W	1.003 enable
k					
148	LED status	Button 1 - {{...}}	1bit 1byte	C,W,T,U	1.001 switch 5.010 counter pulses
k k					

6.4.“Logic”

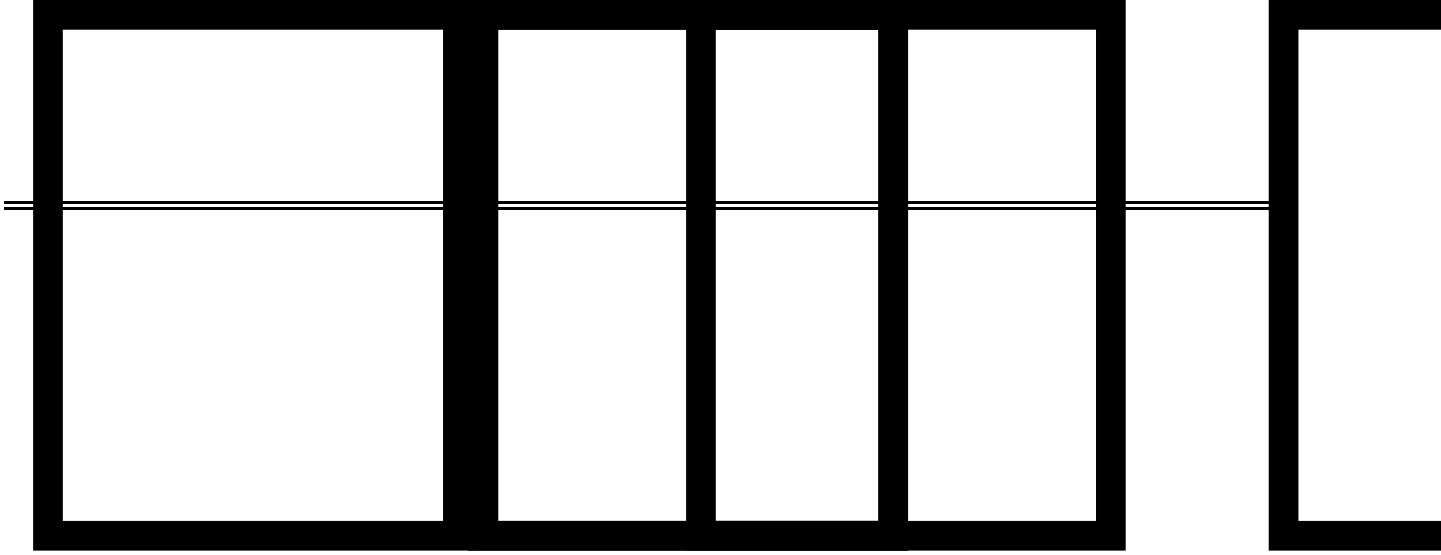
6.4.1. “AND/OR/XOR”

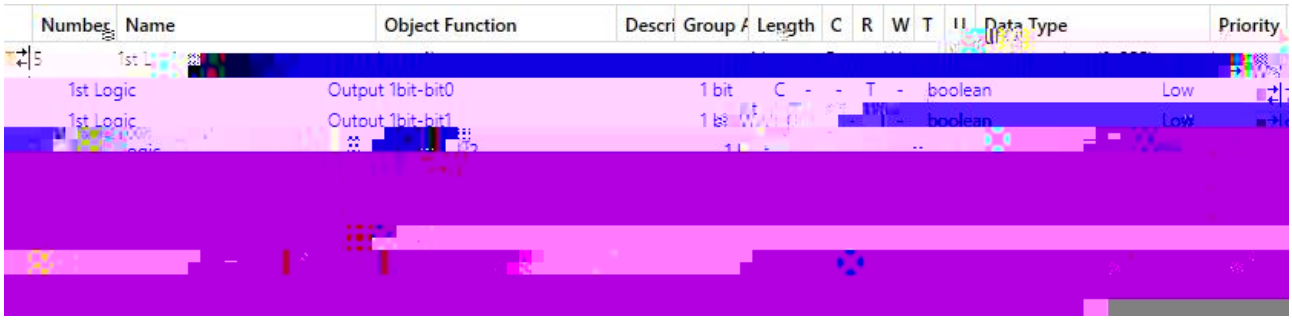
k

1bit

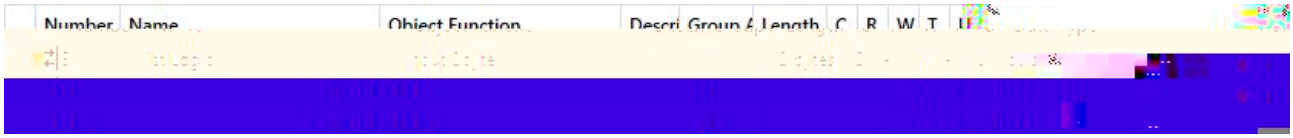
6/.../9 Input x {{1st Logic}} 4bit

1by



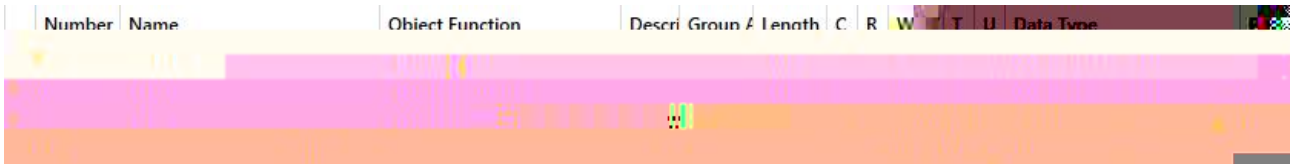


Number	Name	Object Function	Descri	Group A	Length	C	R	W	T	U	Data Type	Priority
5	1st Logic	Output 1bit-bit0			1 bit	C	-	-	T	-	boolean	Low
	1st Logic	Output 1bit-bit1			1 bit	C	-	-	T	-	boolean	Low



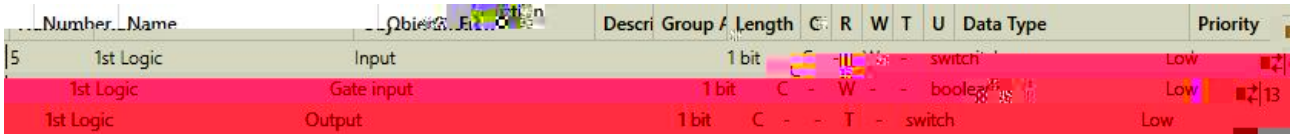
Number	Name	Object Function	Descri	Group A	Length	C	R	W	T	U	Data Type	Priority
5	1st Logic	Input 4byte			4 bytes	C	-	W	-	U	counter pulses (unsigned)	Low
12	1st Logic	Output 2byte-low			2 bytes	C	-	-	T	-	pulses	Low
13	1st Logic	Output 2byte-high			2 bytes	C	-	-	T	-	pulses	Low

Number	Name	Object Function	Descri	Group A	Length	C	R	W	T	U	Data Type	Priority
5	1st Logic	Input 3byte			3 bytes	C	-	W	-	U	RGB value 3x(0..255)	Low
11	1st Logic	Output 1byte-low			1 byte	C	-	-	T	-	counter pulses (0..255)	Low
12	1st Logic	Output 1byte-middle			1 byte	C	-	-	T	-	counter pulses (0..255)	

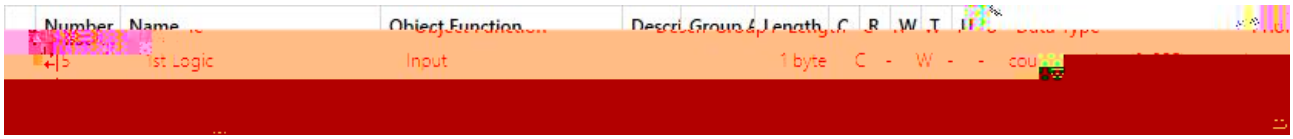


5	Input ...	{{1st Logic}}	1bit 1byte 2byte 3byte 4byte	C,W,U	1.001 switch 5.010 counter pulses(0..255) 7.001 pulses 232.600 RGB value 3x(0..255) 12.001 counter pulses
k					
13	Output ...	{{1st Logic}}	1bit 2bit 1byte 2byte 3byte 4byte	C,T	1.001 switch 2.001 switch control 5.010 counter pulses(0..255) 7.001 pulses 232.600 RGB value 3x(0..255) 12.001 counter pulses
k					

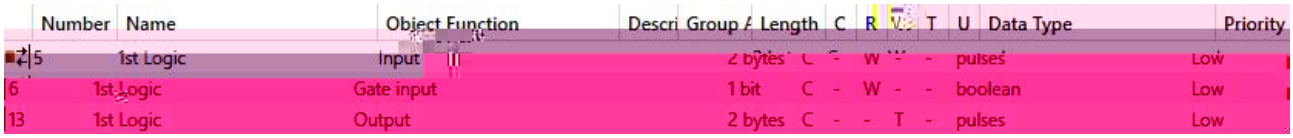
6.4.5. “Gate function”





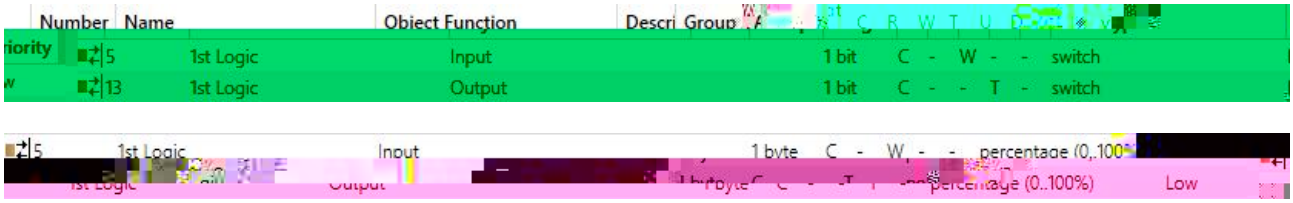


Number	Name	Object Function	Descri	Group A	Length	C	R	W	T	U	Data Type	Priority
5	1st Logic	Input			2 bytes	C	-	W	-	-	temperature (°C)	Low
6	1st Logic	Gate input			1 bit	C	-	W	-	-	boolean	Low
13	1st Logic	Output			2 bytes	C	-	-	T	-	temperature (°C)	Low



5	Input	{{1st Logic}}	1bit 1byte 2byte	C,W	1.001 switch 5.001 percentage 5.010 counter pulses 9.001 temperature 7.001 pulses
k					
6	Gate input	{{1st Logic}}	1bit	C,W	1.002 boolean
□ k □ □ k					
13	Output	{{1st Logic}}	bit 1byte 2byte	C,T	1.001 switch 5.001 percentage 5.010 counter pulses 9.001 temperature 7.001 pulses
k □ k					

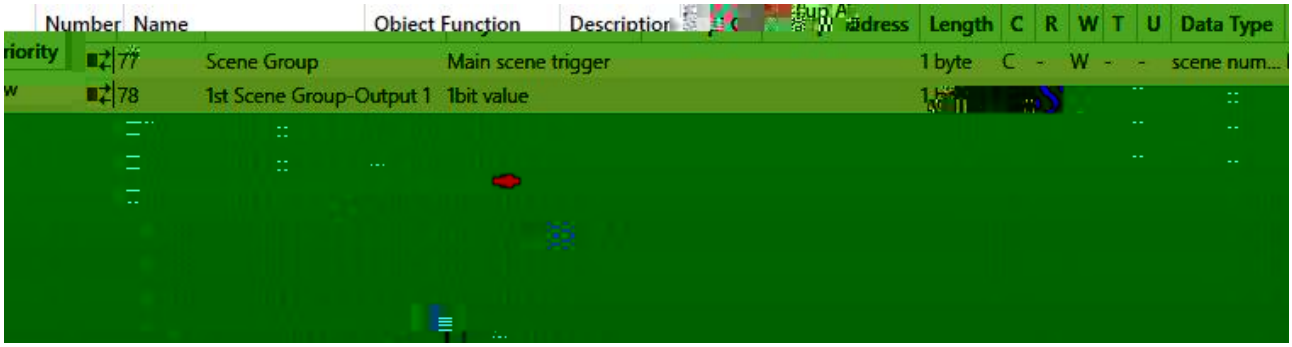
6.4.6. “Delay function”



H_ZKA

						1.001 switch
			1 bit			5.001 percentage
5	Input	{{1st Logic}}	1 byte	C,W		5.010 counter pulses
			2 byte			9.001

6.5.“Scene Group”



77	Main scene trigger	Scene Group	1byte	C,W	17.001 scene number
		□			k
78/../	1bit value 1byte unsigned value HVAC mode 2byte unsigned value Temperature	1st Scene Group-{p0			

7.1.

General light	
Ceiling light 1	
Ceiling light 2	
Downlight 1	
Downlight 2	
Wall light	
Spotlight	
Chandelier 1	
Chandelier 2	
Floor light	

LED strip	
RGB light	
Curtain	
Roller blind	
Venetian blind	
TV	
Audio	
Socket(CHN)	
Socket(EU)	
Fan	

Lock 1		VESDA	
Lock 2		FIRE	
Power 1		Water Sensor	
Power 2		Gas Sensors	
Window 1		Sensor 1	
Window 2		Sensor 2	
Alarm		Temperature 1	
Projector		Temperature 2	
Multimedia		Humidity	
Presence		PM2.5	
Infrared Sensor		PM10	
Door Sensor		CO2	

VOC		Air conditioner 3	
Brightness		Heating	
Wind speed		Cooling	
Rain		Heating/Cooling	
Energy		Music 1	
I/O signal		Music 2	
Electronic heating		Ventilation	
Water heating		AQI	
Air conditioner 1		Not Disturb	
Air conditioner 2			

7.2.

General scene 1	
General scene 2	
General scene 3	
General scene 4	
General scene 5	
All on	
All off	
Leave home 1	

Go home 1	
Go home 2	
Leave home 2	
Welcome 1	
Welcome 2	
Dinner	
Party	
Sleeping	

Wake up		Security	
Reading		Conference	
Media		Relax	

Clea (+