K-BUS / /

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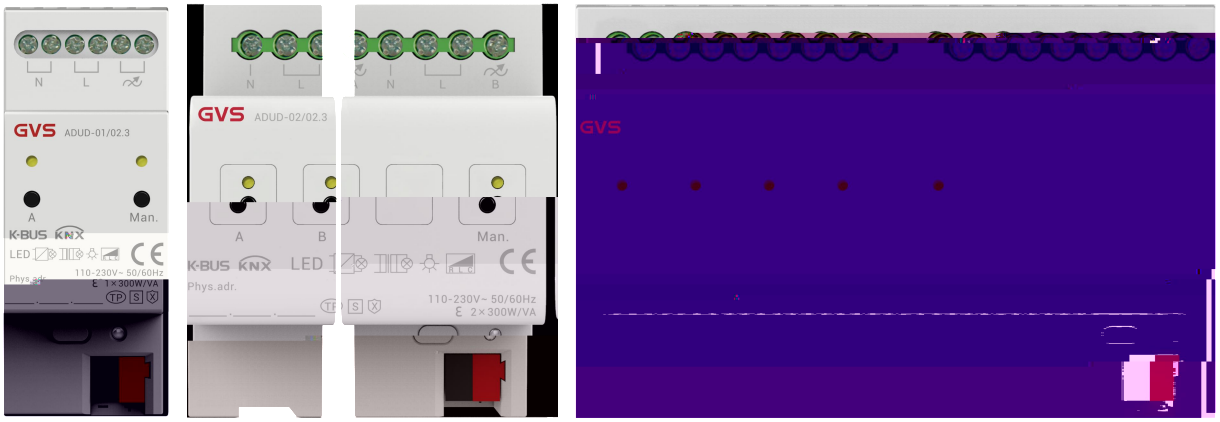
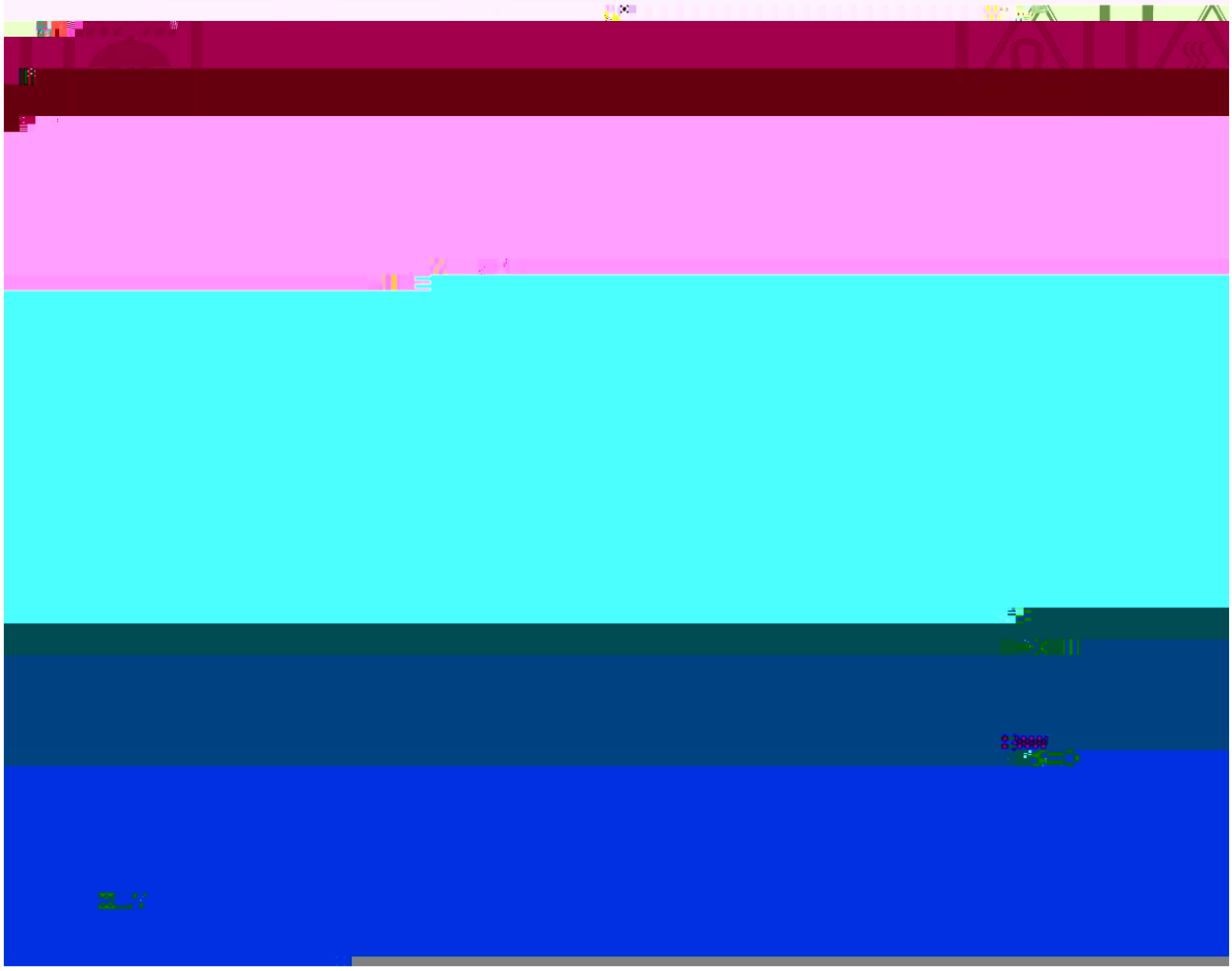

N L
GVS ADUD-01/02.3
A Man.
K-BUS KNX
LED
110-230V~ 50/60Hz
1×300W/VA
N L
GVS ADUD-02/02.3
A B Man.
K-BUS KNX LED
Phys.adr.
110-230V~ 50/60Hz
2×300W/VA
N L B
GVS

/

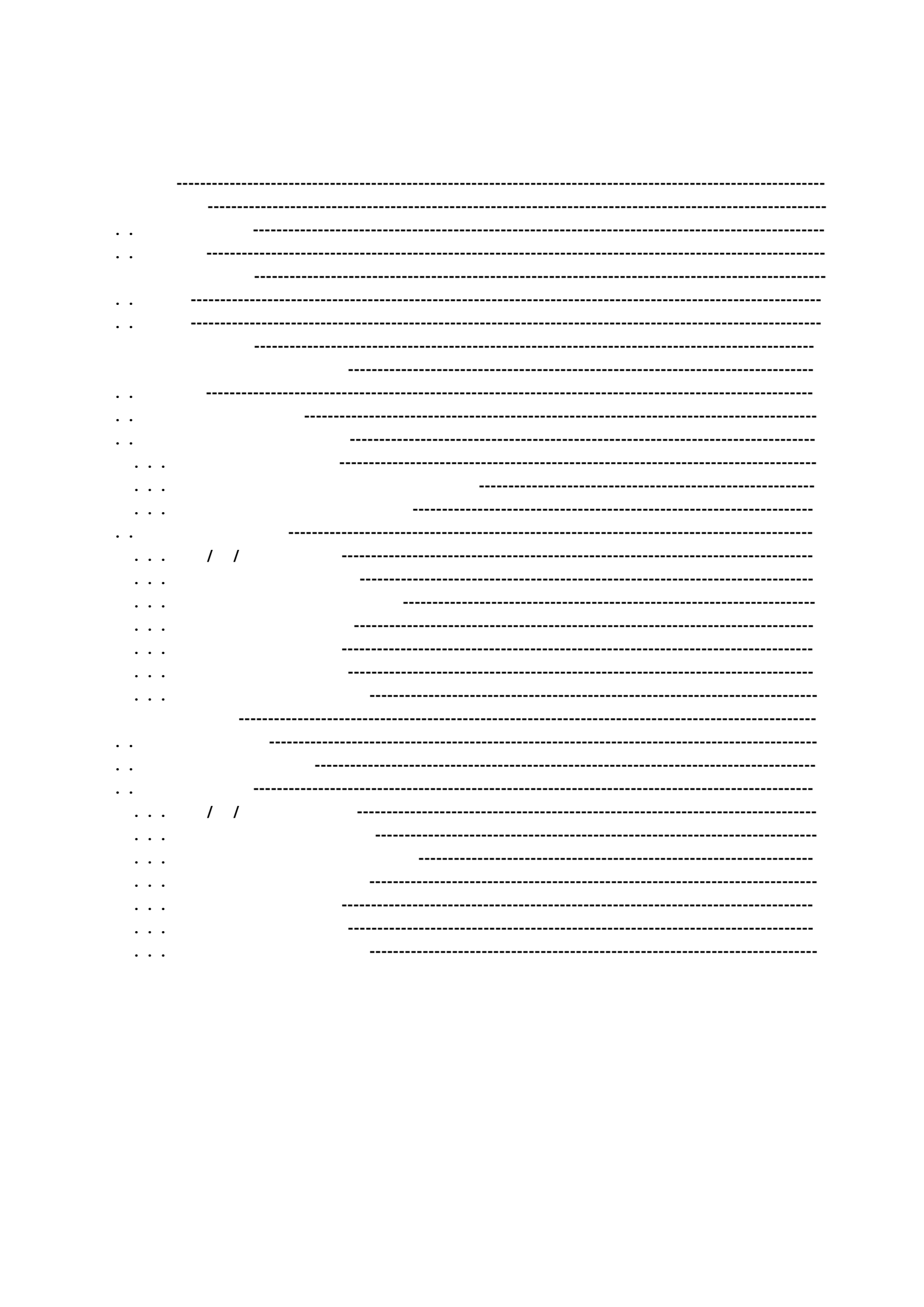
注意事项

1、请远离强磁场、高温、潮湿等环境；



⚠

1				
			1%	
2	LED	LED		
			100% LED	
3	LED			
4				
5				
			ETS	
6	0-100%		1% 100%	
7			! !	



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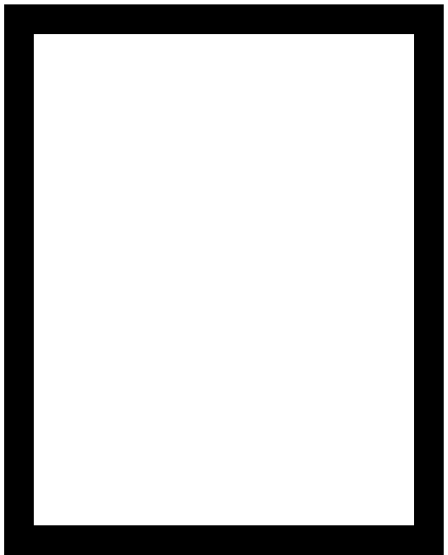

	21~30V DC KNX
	<6mA/24V <5.5mA/30V (1) <7mA/24V <6mA/30V (2) <7.5mA/24V <6.5mA/30V (4) <165mW (1) <180mW (2) <195mW (4)
	1/2/4
	300W (1 , / /LED ,) 2 500W/3 750W/4 1000W 110~230 V AC 50/60HZ 0.7W ≤2W / ! !
KNX	/ 0.8 mm Ø
	0.2—2.5mm^2 1 0.2—6.0mm^2 2/4
LED	

LED / LED / / / LED /	
	-5 °C...+45 °C
	-25 °C...+55 °C -25 °C...+70 °C
	<93%
DIN 35mm	
36 x 90 x 64 mm (1) 72 x 90 x 64 mm (2) 144 x 90 x 64 mm (4)	
0.2kg (1) 0.3kg (2) 0.5kg (4)	

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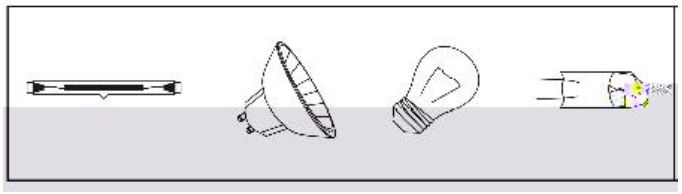
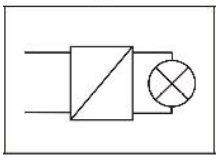
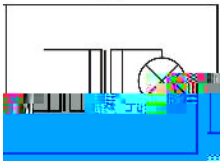
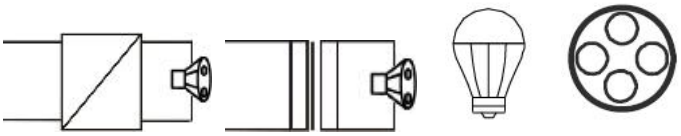
		10...150W	10...150W	10...300W	10...300W
		10...150W	10...150W	10...300W	10...300W
		10...150W	10...150W	10...300W	10...300W
LED		2...30W	2...150W	2...60W	2...300W
	LED	2...40W	2...150W	2...80W	2...300W
	LED (!)	2...40W	2...150W	2...80W	2...300W
	LED	2...40W	2...150W	2...80W	2...300W
		R 			
		C 			
		L 			
					

2/4 k

			300W	300W	400W	400W	500W	500W
			300W	300W	400W	400W	500W	500W
			300W	300W	400W	400W	500W	500W
LED			-	300W	-	400W	-	500W
	LED		-	300W	-	400W	-	500W
	LED	!	-	300W	-	400W	-	500W
	LED		-	300W	-	400W	-	500W

			500W	500W	750W	750W	1000W	1000W
			500W	500W	750W	750W	1000W	1000W
			500W	500W	750W	750W	1000W	1000W
LED			-	500W	-	750W	-	1000W
	LED		-	500W	-	750W	-	1000W
	LED	!	-	500W	-	750W	-	1000W
	LED		-	500W	-	750W	-	1000W

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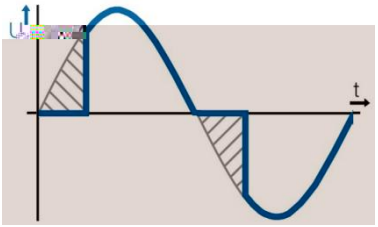

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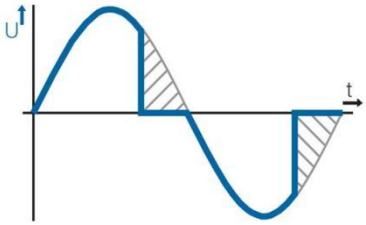

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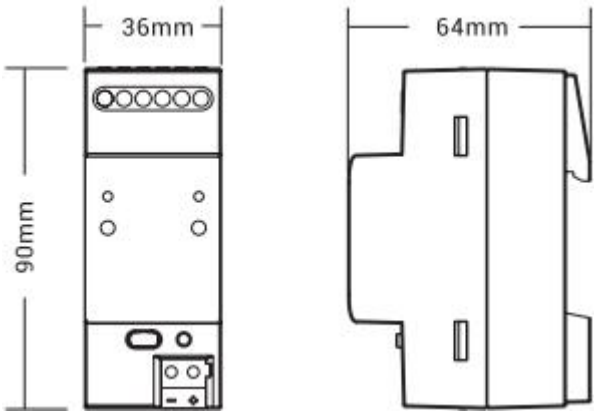

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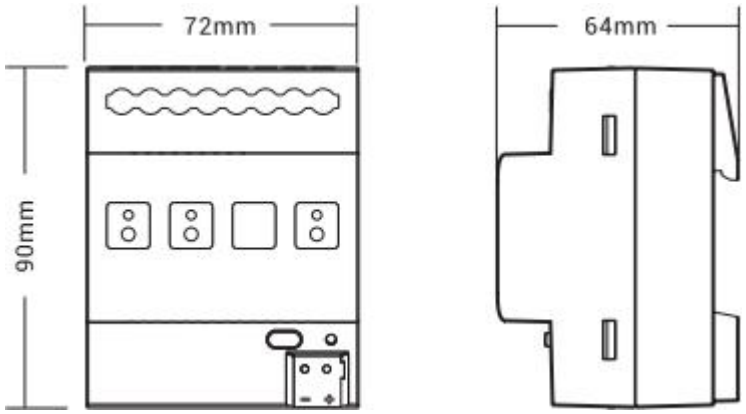

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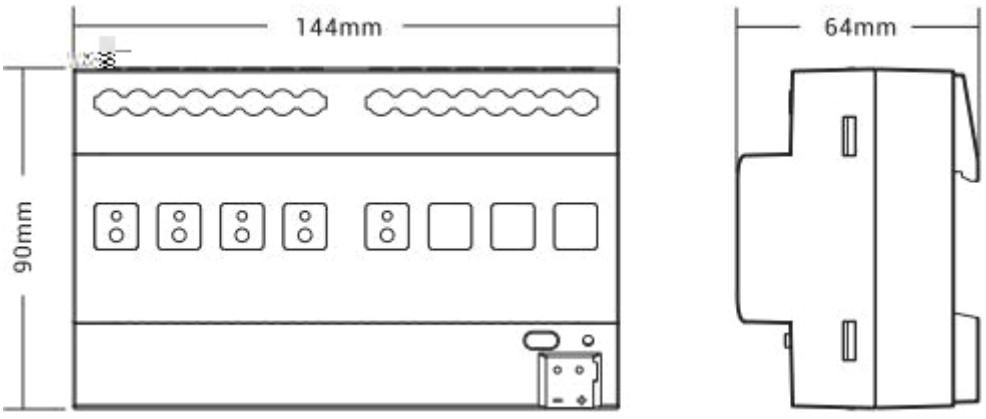

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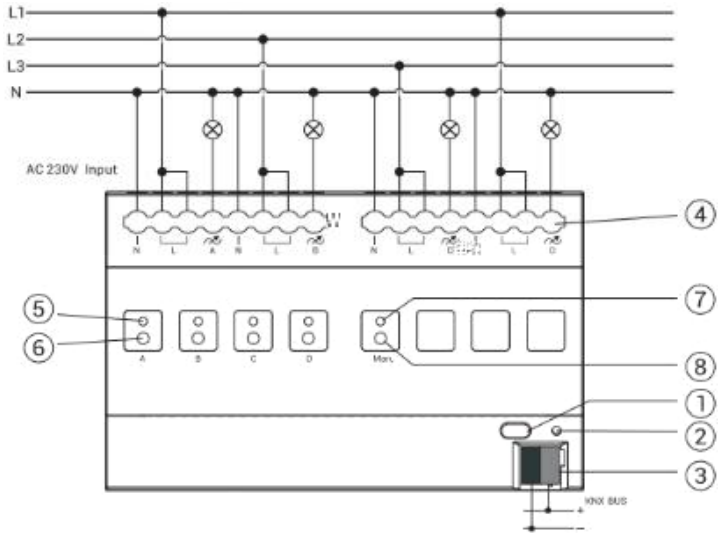

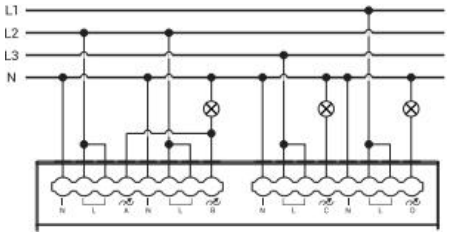

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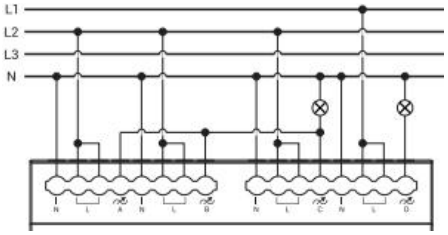

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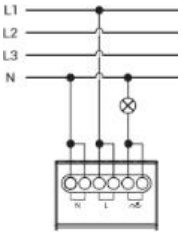

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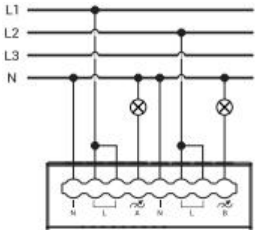

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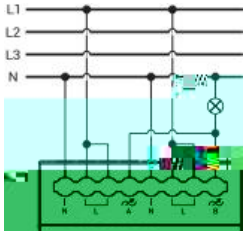

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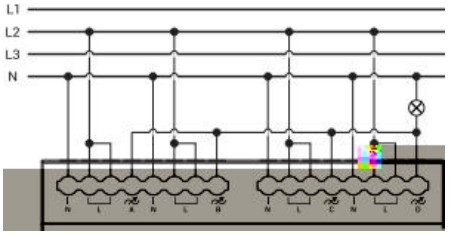

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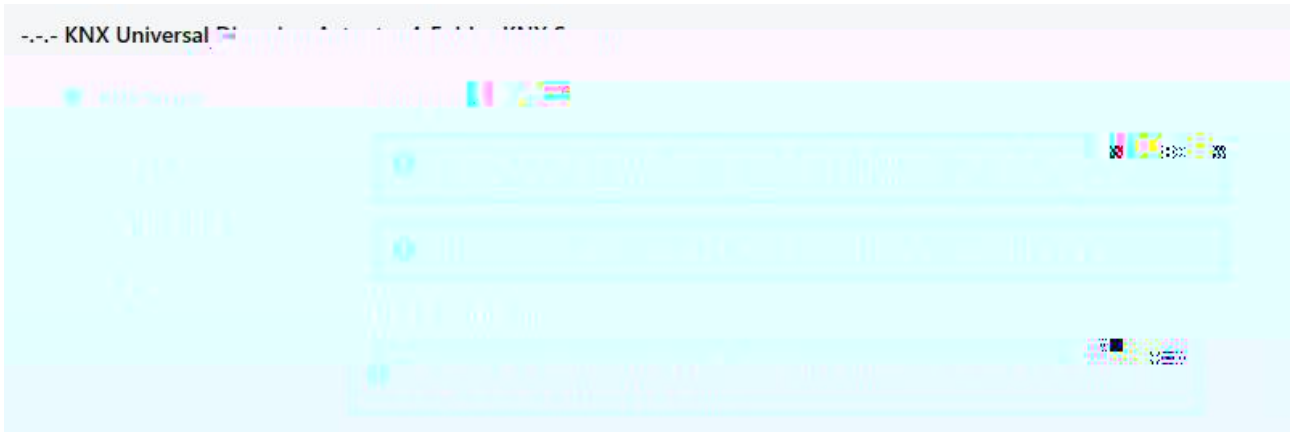

5.1 (1) “KNX Secure”

KNX KNX ETS 5.1(1)

KNX Data Secure is available in this device,it effectively protects user data against unauthorised access and manipulation by means of encryption and authentication for the installation.

ETS can active or deactive security function.Detailed specialist knowledge is required.

KNX 9t 7r/Œ‰ˆ

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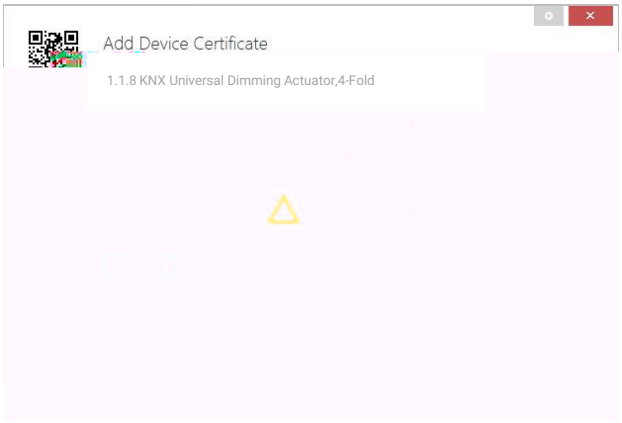
❖ KNX k FDSK =

ETS

✧ ETS 5.1 (2) k

QR k

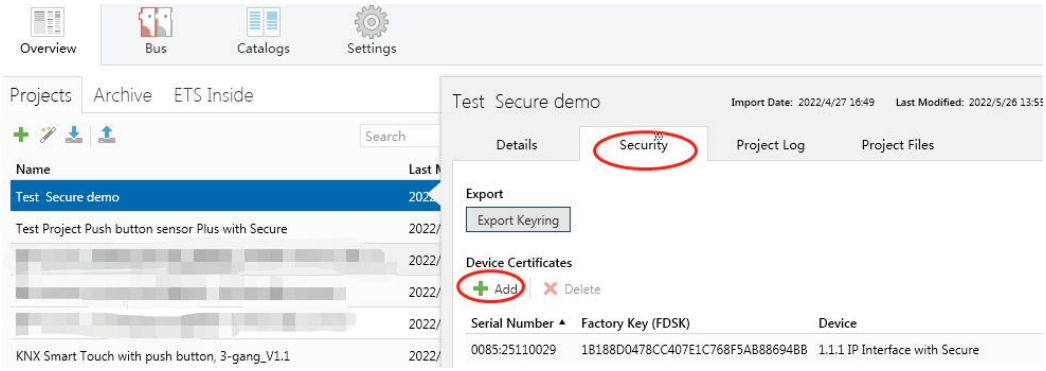


5.1(2) Add Device Certificate

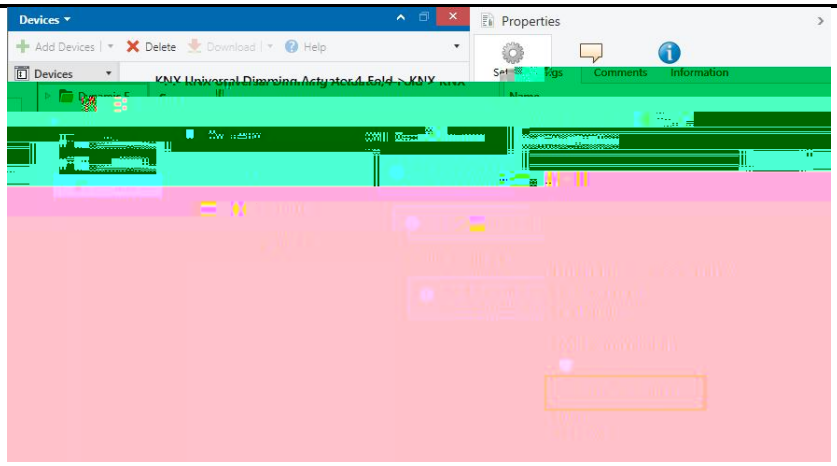
✧ ETS k

“Security” 5.1(3) k

“Add Device Certificate” 5.1(4) k



5.1(3) Add Device Certificate



5.1(4) Add Device Certificate

✧ FDSK k

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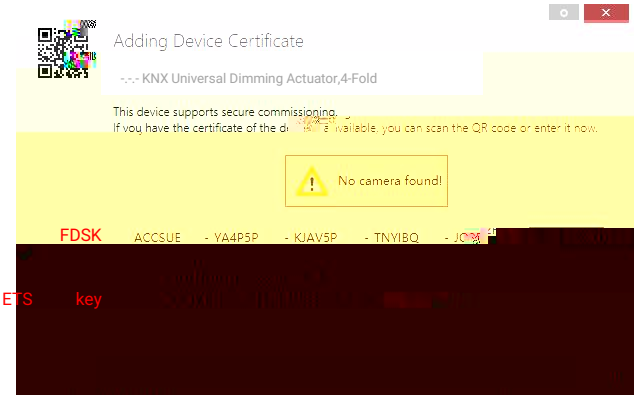
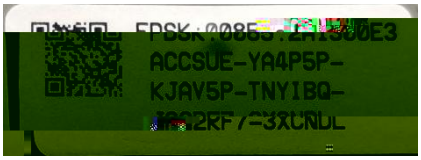
FDSK FDSK ETS 5.1(5) k

ETS

FDSK k





5.1(5)

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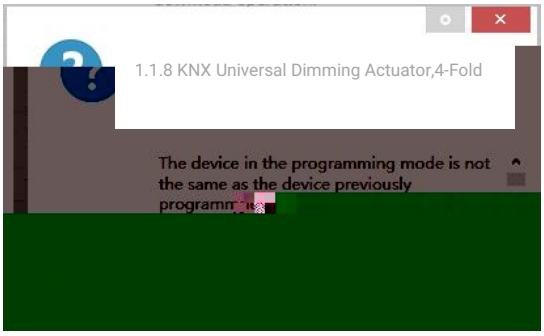
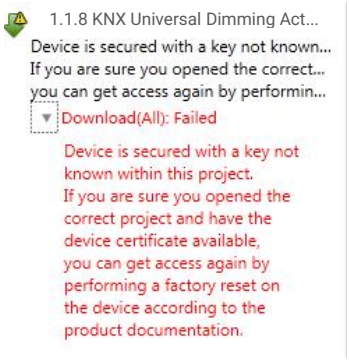
5.1(6) “Yes” “Add Device Certificate” FDSK

5.1(6) k





5.1(6)

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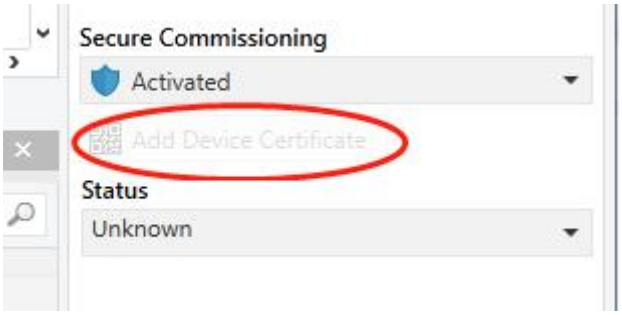
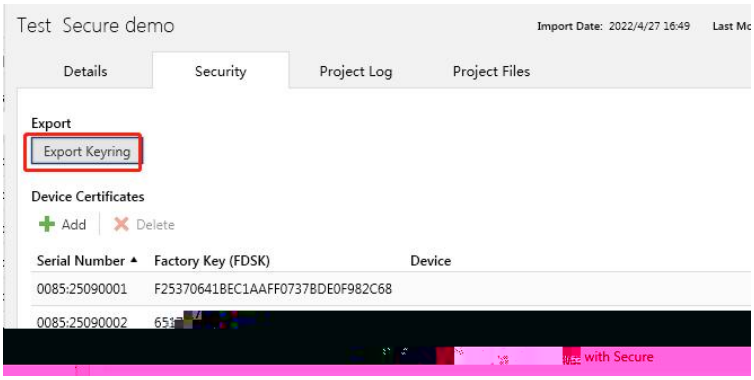
“Add Device Certificate” k



5.1(7)

ETS

5.1(8) .knxkeys k



5.1(8)

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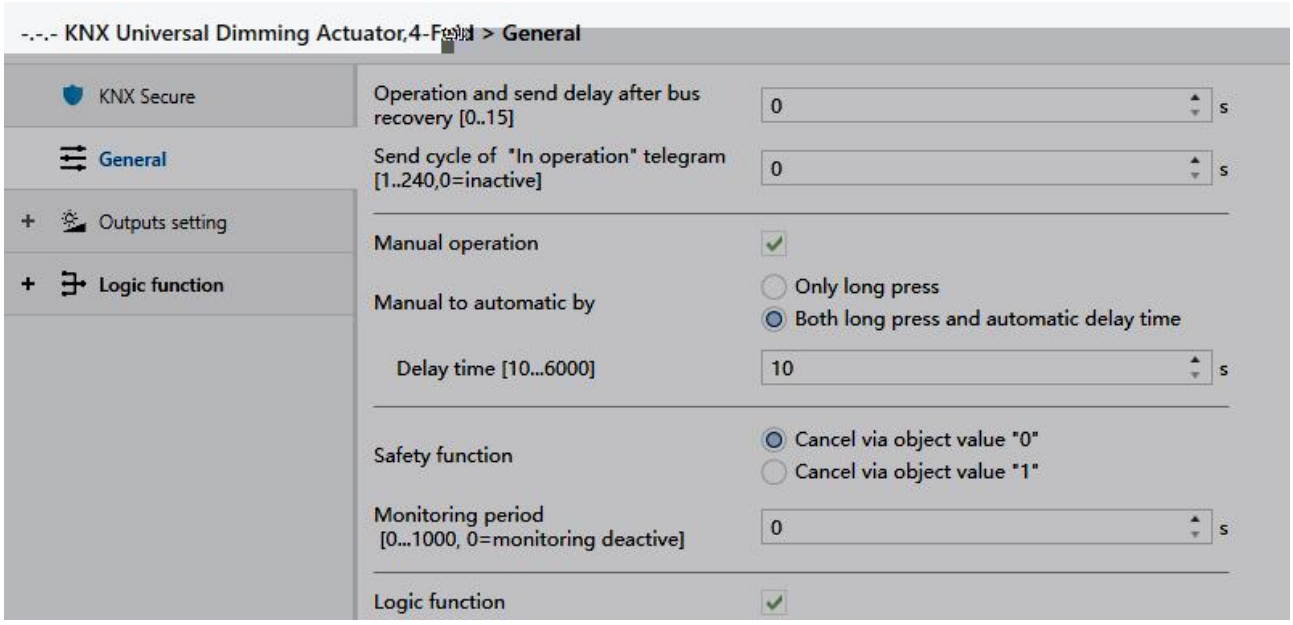

5.2 “General setting”

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operation” k “0” “In operation” “1”

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”Both long press and automatic delay time” k

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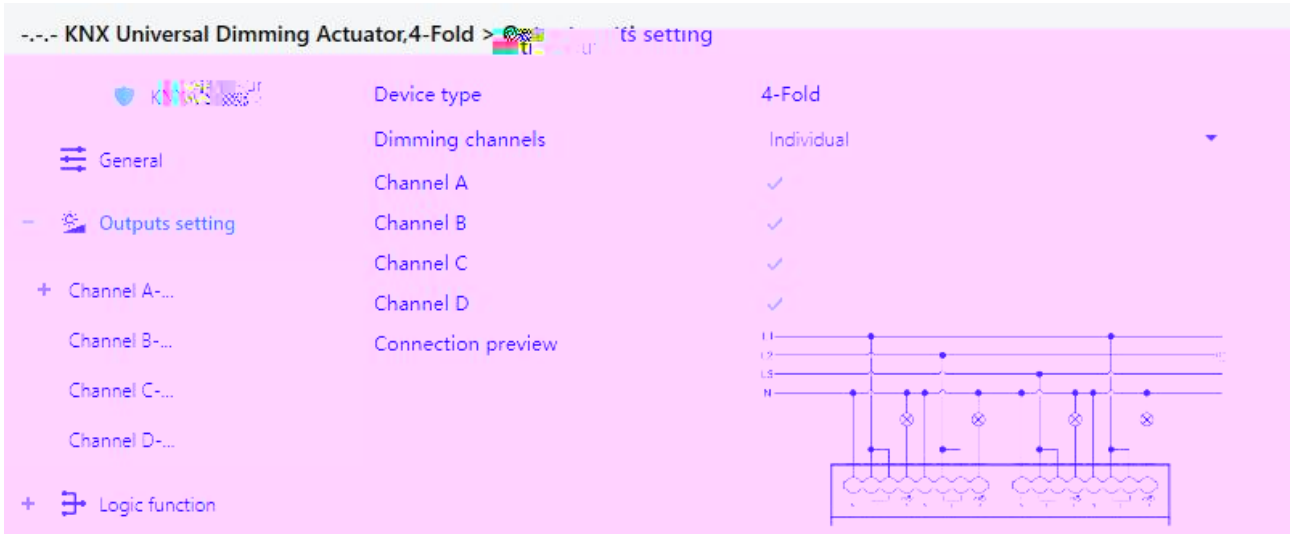

5.3 “Output setting”

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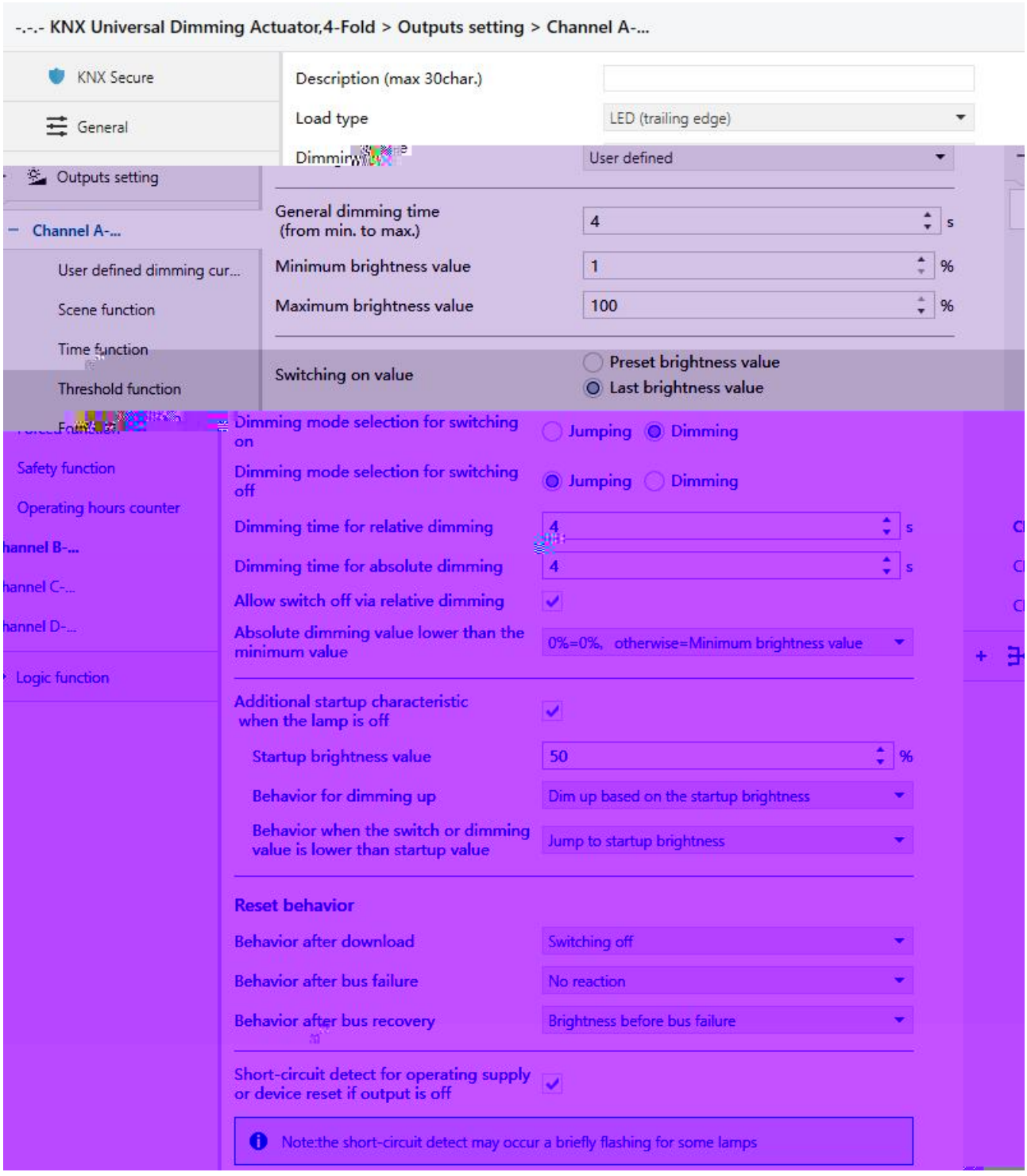
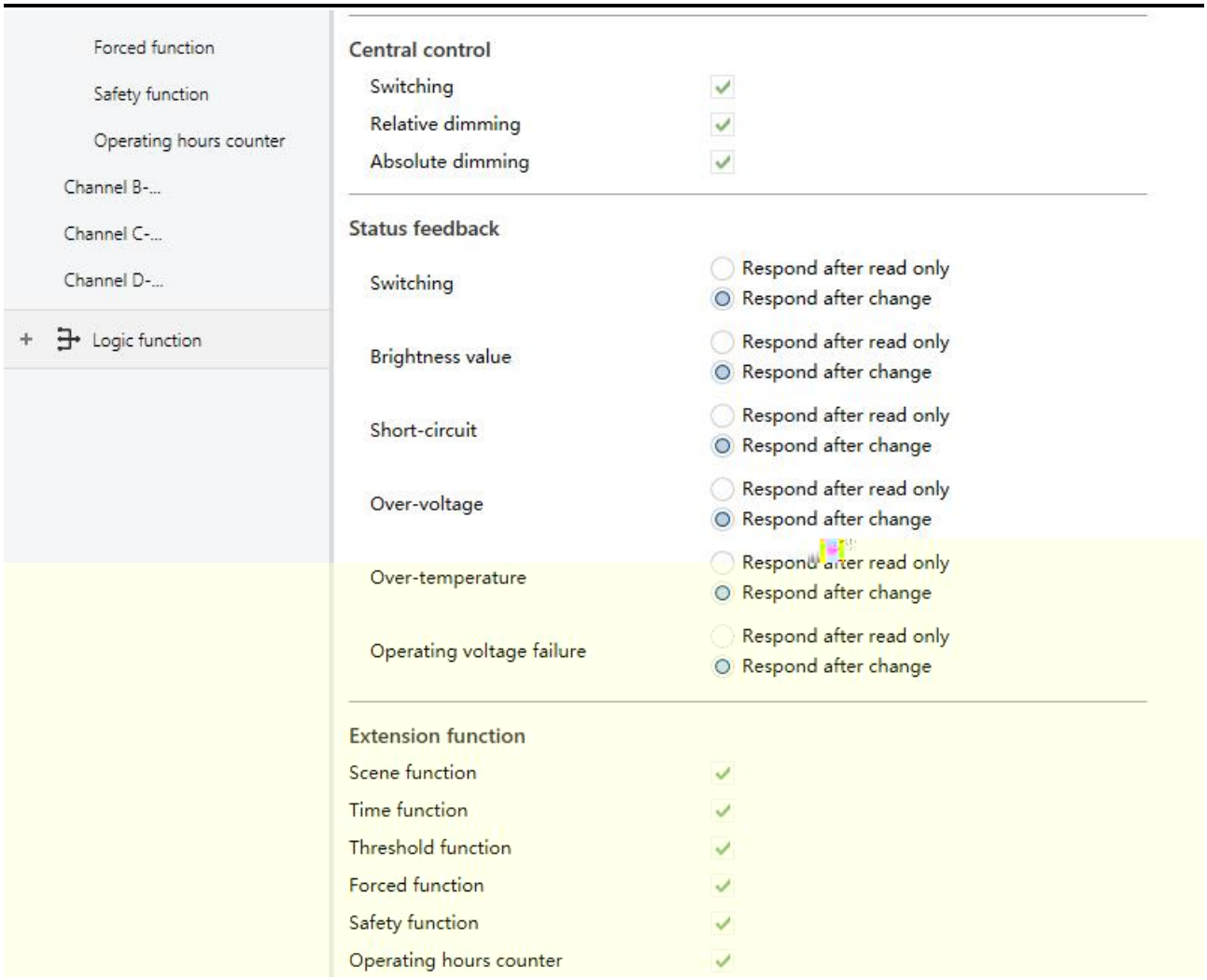


5.3.1(1) “Channel”


Forced function
Safety function
Operating hours counter
Channel B-...
Channel C-...
Channel D-...
Logic function
Central control
Switching
Relative dimming
Absolute dimming
Status feedback
Switching
Respond after read only
Respond after change
Brightness value
Respond after read only
Respond after change
Short-circuit
Respond after read only
Respond after change
Over-voltage
Respond after read only
Respond after change
Over-temperature
Respond after read only
Respond after change
Operating voltage failure
Respond after read only
Respond after change
Extension function
Scene function
Time function
Threshold function
Forced function
Safety function
Operating hours counter

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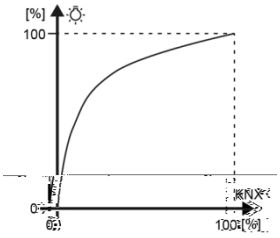

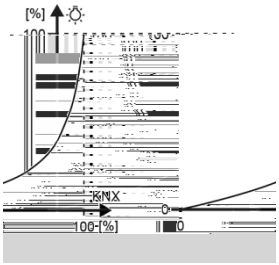

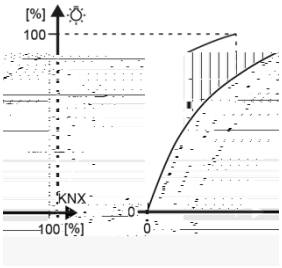

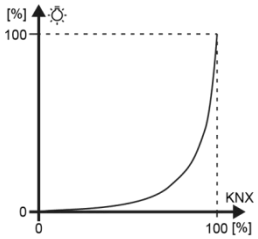

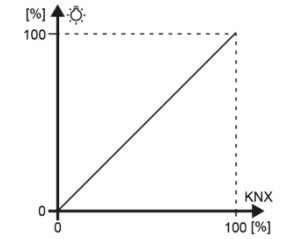

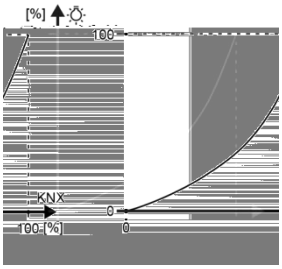

User defined 5.3.2 k

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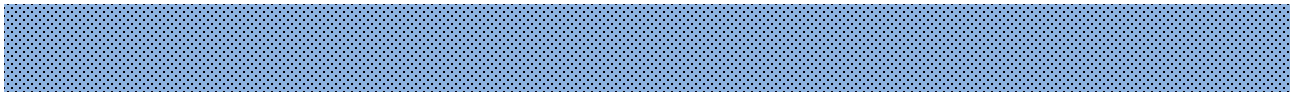
Last brightness value: ”Switch ON” 50% 50% k

Preset brightness value k k ... %

k

Jumping k

Dimming k



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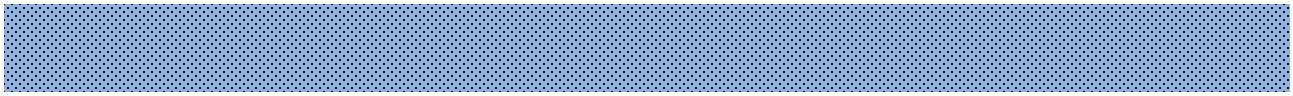
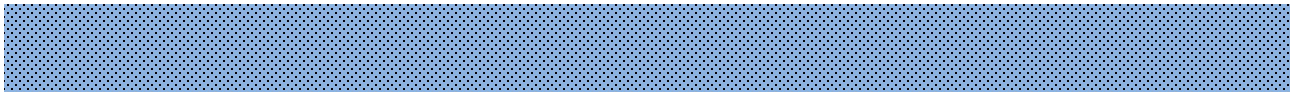
Jumping k

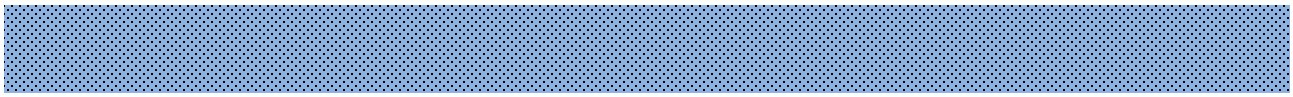
Dimming k



k ...

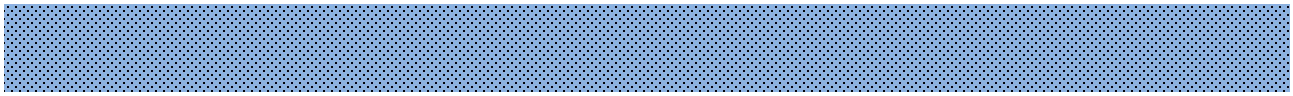


k ...



k

k



k

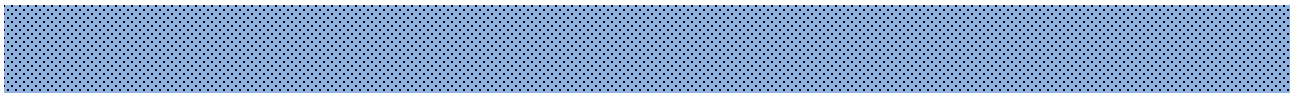
% %

%

0%=0%, otherwise=Minimum brightness value% 0% k

To be the minimum brightness value 0% k

To be 0% k



Jump to startup brightness k

Jump to startup then delay to target k

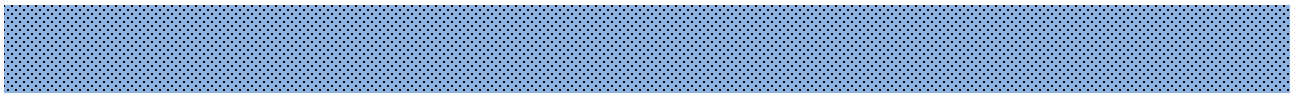
Switching Absolute dimming k

Jump to startup then delay to target k

k

...

/ /



k

Switch off k

Preset brightness value k

Brightness before bus failure k

Preset brightness value k k ... %

k

Switch off k

Preset brightness value k

No reaction k

Preset brightness value k k ... %

k

Switch off k

Preset brightness value k

Brightness before bus failure k

Preset brightness value k k ... %

k

k

k

k

k

Note:the short-circuit detect may occur a briefly flashing for some lamps

k k

/ k

k

k

k

/ / - / - / - /

! ! ! ! k

k

1

k

k

k

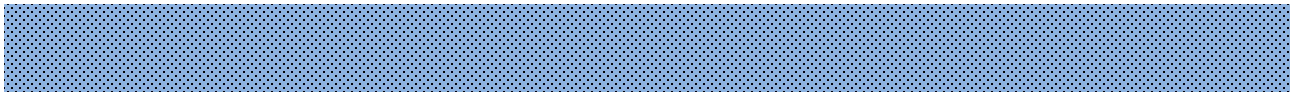
10s 90,

k 20% k 70,

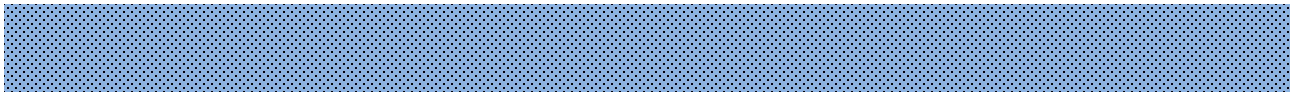
k

k

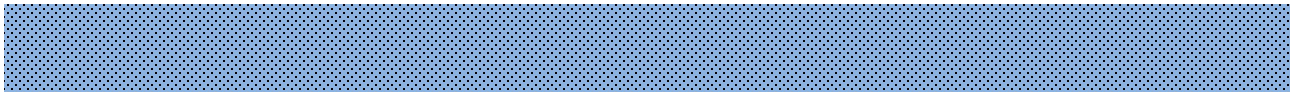
k



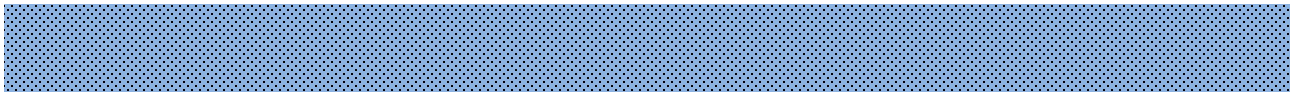
k



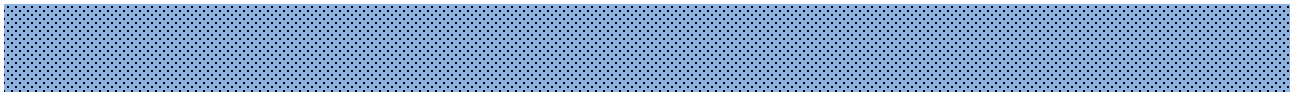
k



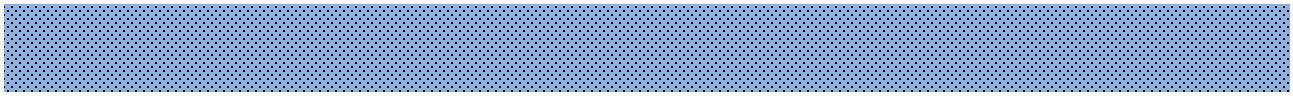
k



k

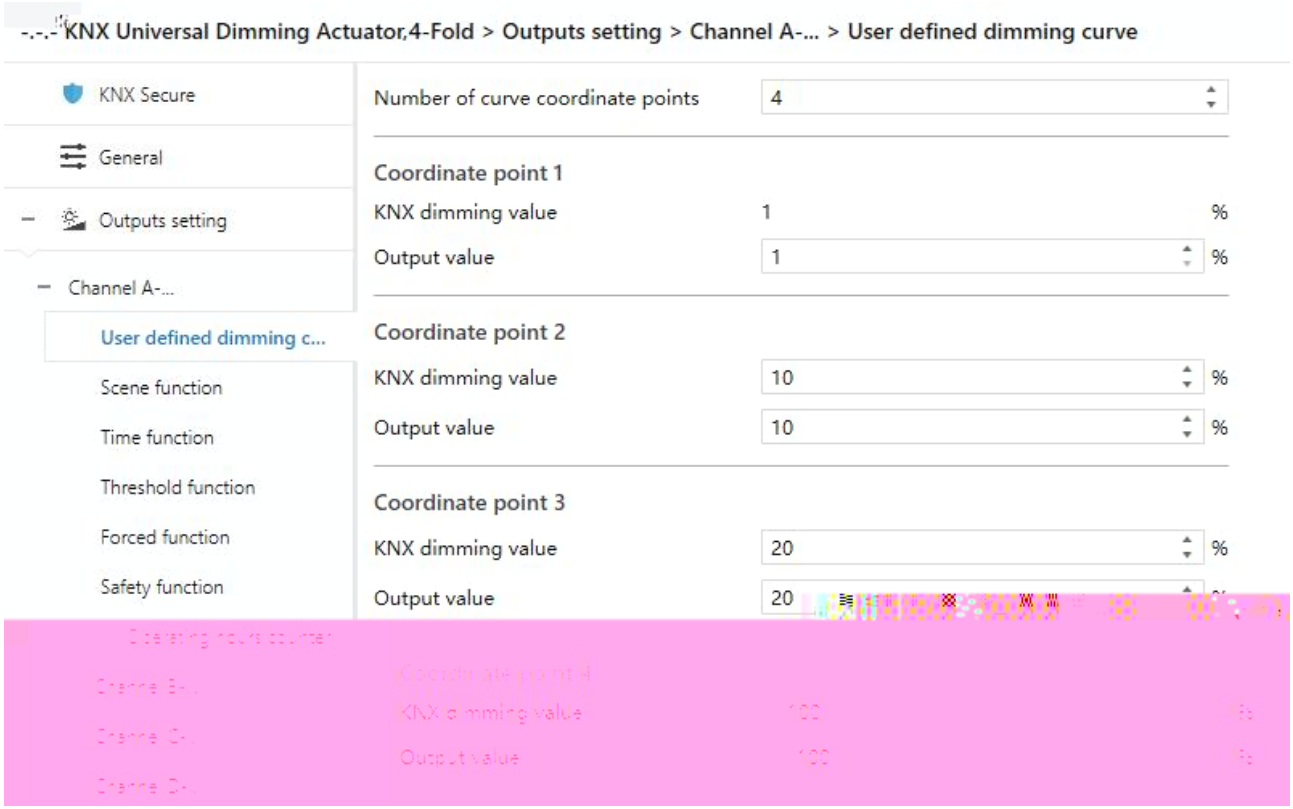


k



k

. . .



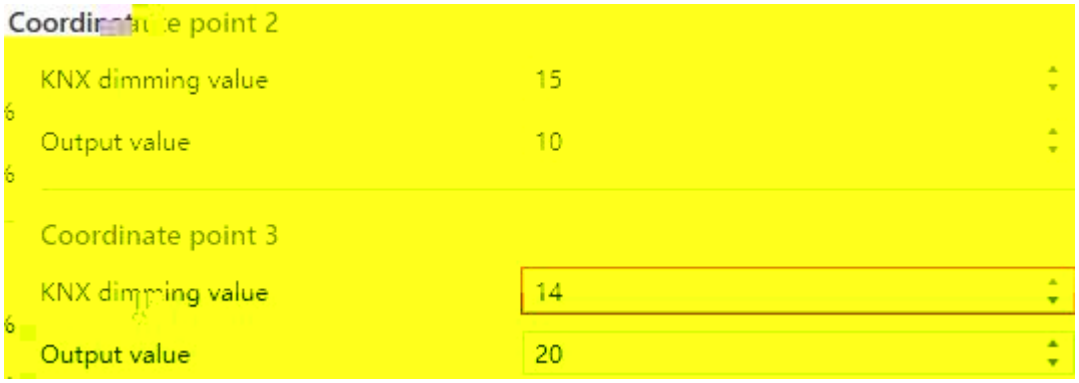
5.3.2 “User defined dimming curve”

k ...

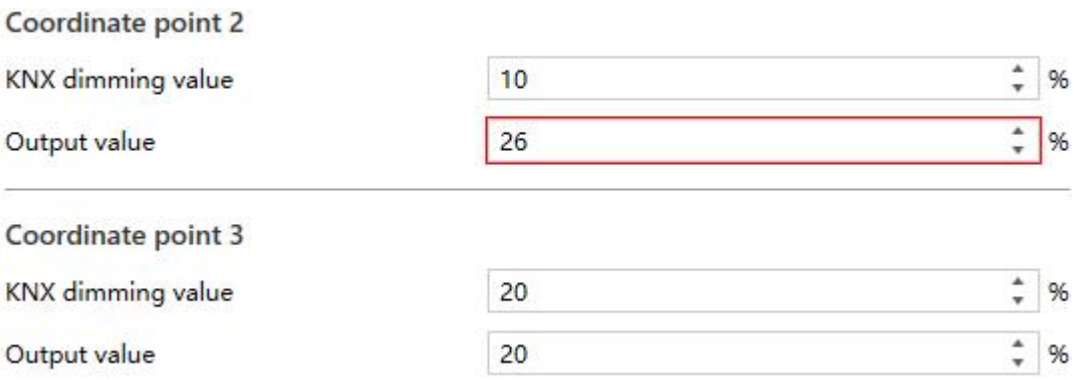
( )

KNX k .. %

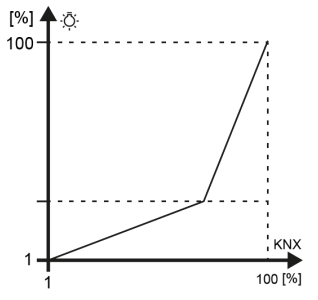
KNX 1% 100% k



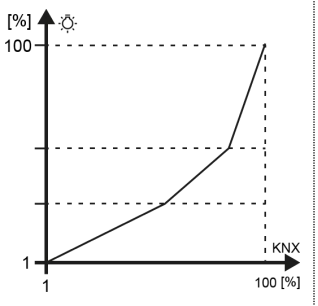
KNX k .. %



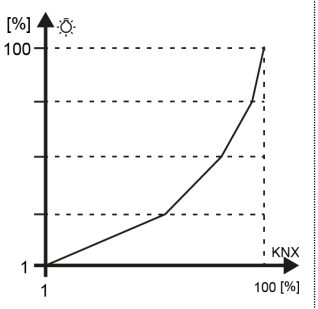
1 3



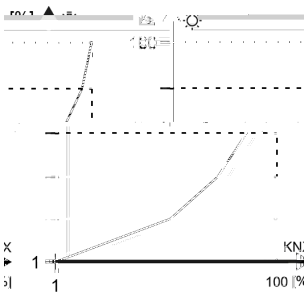
2 4



3 5



4 6



1

2

3 1% 100%

4

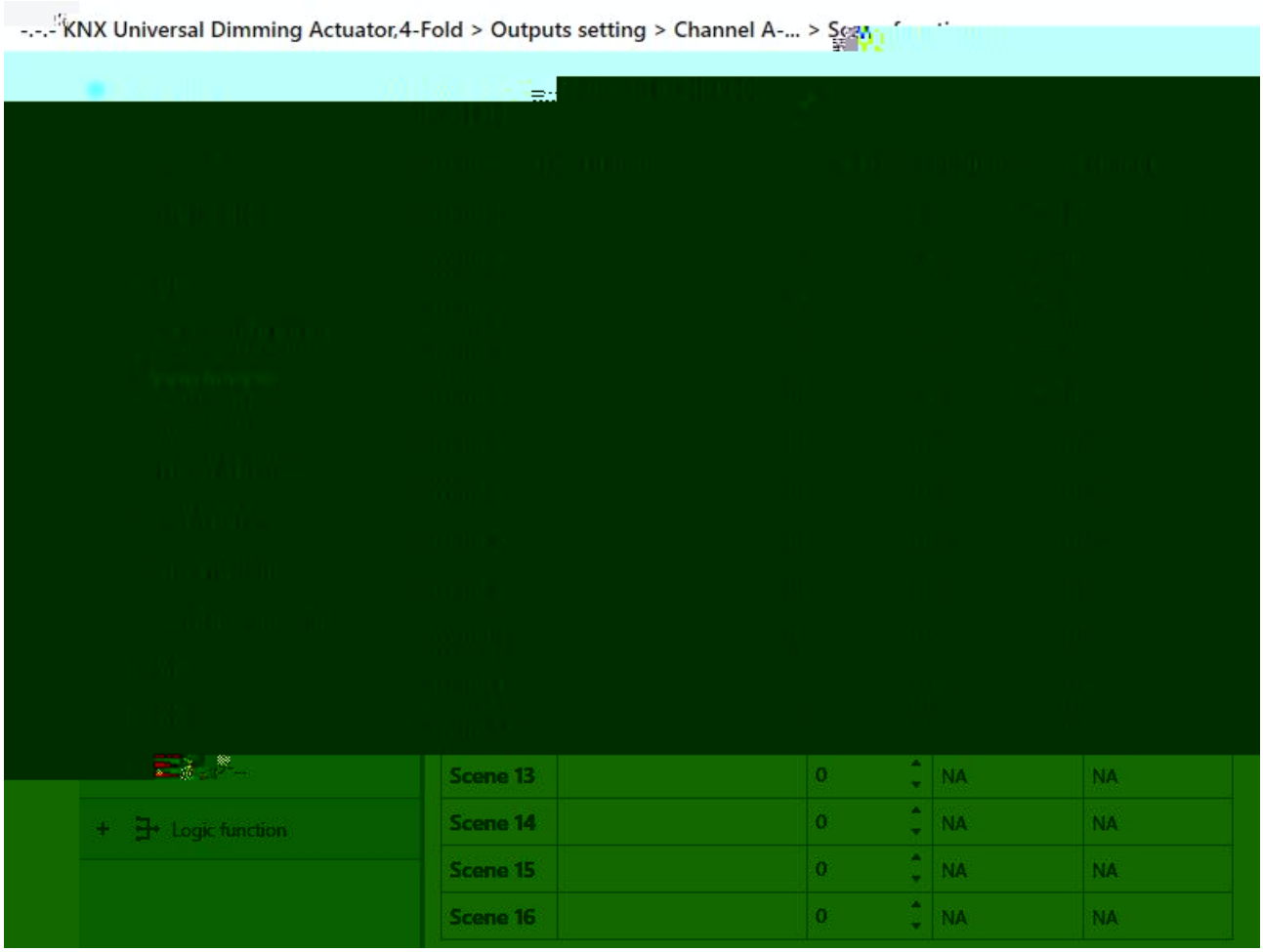
5

k

. . .

k

. . . .



5.3.3.1 “Scene function”

k

k ETS

ETS k

30 k

k 16 k ...

0

Scenes	Description	Scene NO.	Brightness	Dimming
Scene 1		0	NA	NA

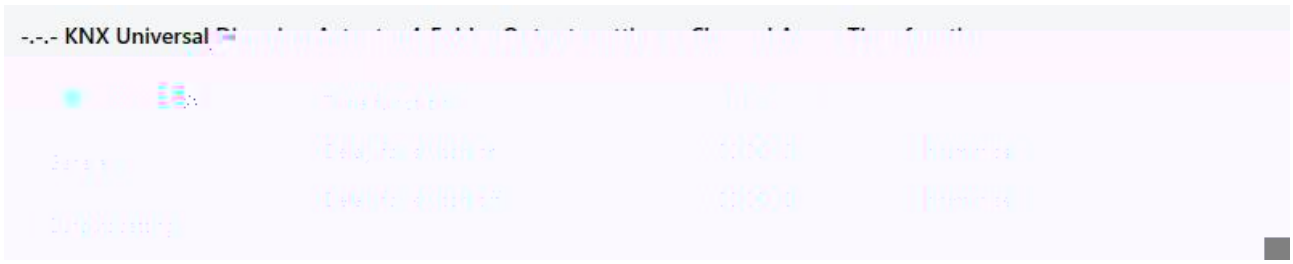
0

Exist multiple scene NO. assignment conflict, the valid scene NO. can't be the same, please correct, otherwise only the first one of those conflict scene is valid and others will be ignored

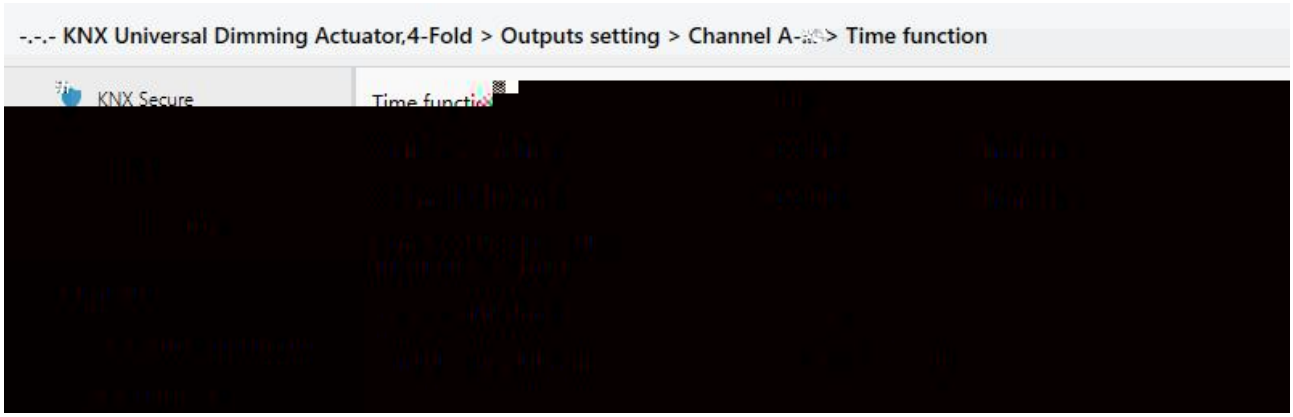
k ... %

k ...

. . . .



Delay switch

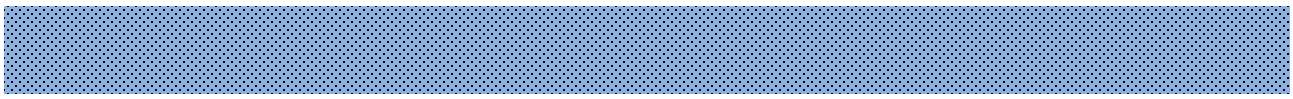


Flash switch

Staircase lighting

5.3.3.2 “Time function”

k



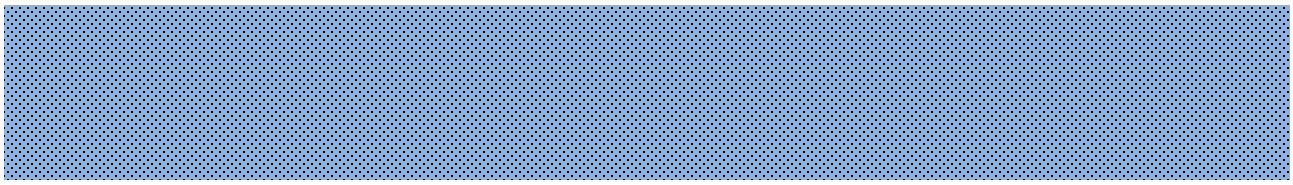
k

Delay switch / Jumping k

Flashing switch Jumping k

Staircase lighting Jumping k

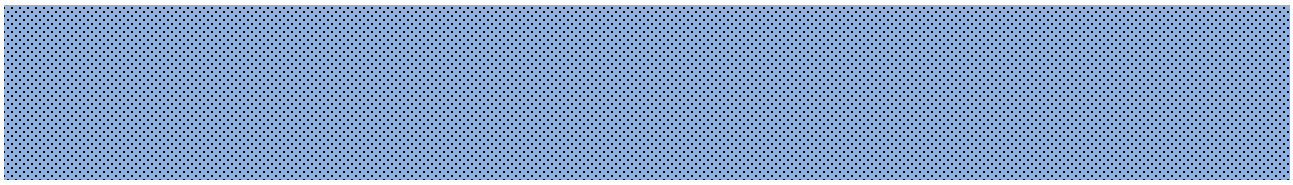
! k



Delay switch k /

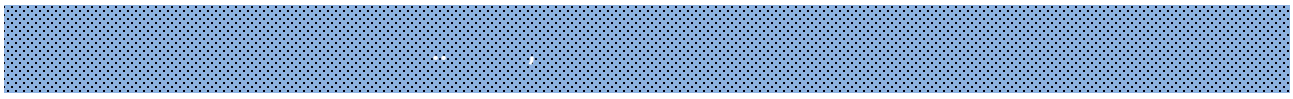
k k k

...



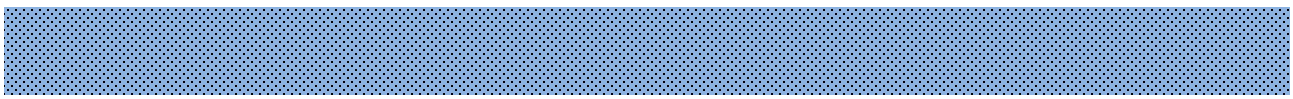
Flashing switch k / k

...



Flashing switch k 0

k ...



Flashing switch k k

k

Flashing switch k k

" ", " "

" ", " "

" / ",

Start with"1", Stop with "0" 1 0 k

Start with"0", Stop with "1" 0 1 k

Start with"0/1", can not be stopped 0/1

k

Staircase lighting k

k ...

Staircase lighting k

k

Not retriggerable k

Retriggerable k

Extend duration time

, -

-

-

-

-

No k

No, but dim-down the dimming value after end k

Via object k

Via flashing switching on-off 1s 1s Jumping k

Via flashing switching on-off and object 1s 1s

Jumping k

Dim-down the dimming value k

Dim-down the dimming value and via object k

No... k k

...

k

k

k

Dim-down the dimming value.... k

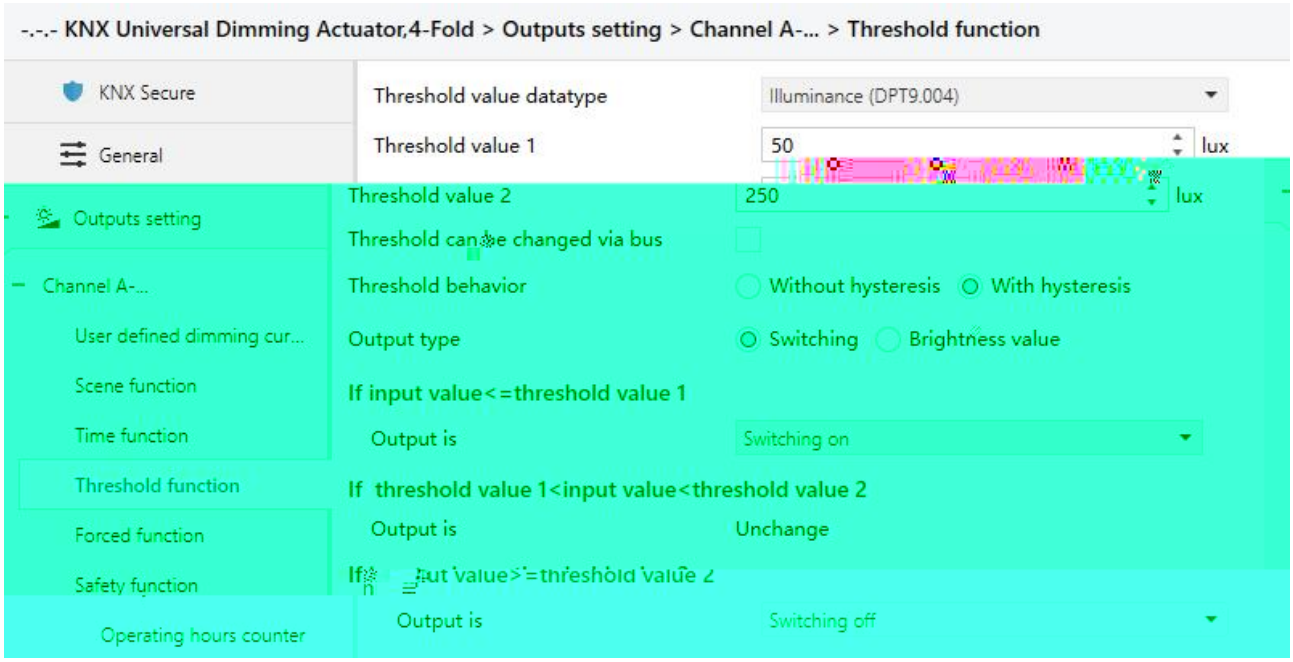
k ... %

Staircase lighting k k

k

The duration time receiving from bus must be longer than the warning time,otherwise it will be ignored

. . . .



5.3.3.3 “Threshold function”

ETS k

k

k

(.)

(.)

(.)

(.)

1 2 k k

1byte unsigned value ...

1byte percentage ... %

Temperature - ... -

Illuminance ...

1 2 k

k

1 2 k

2 k

/ k

1 k k

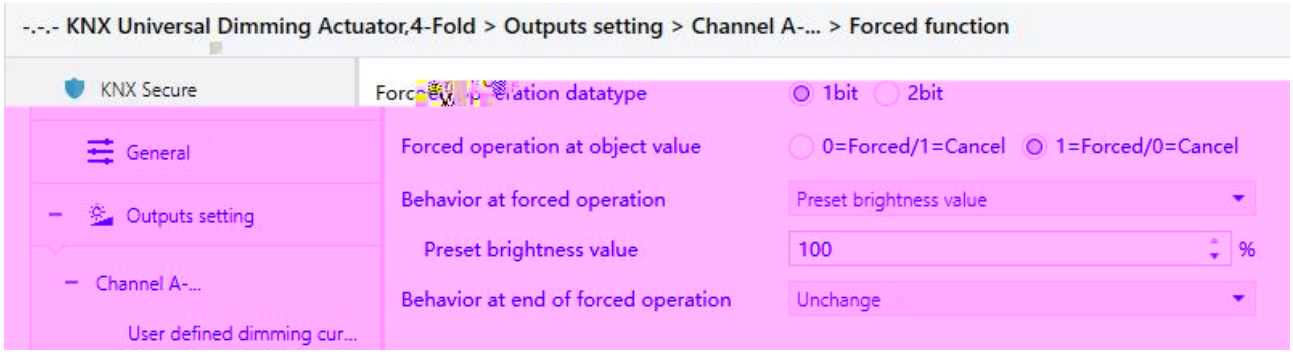
Switching k

Brightness value k ... %

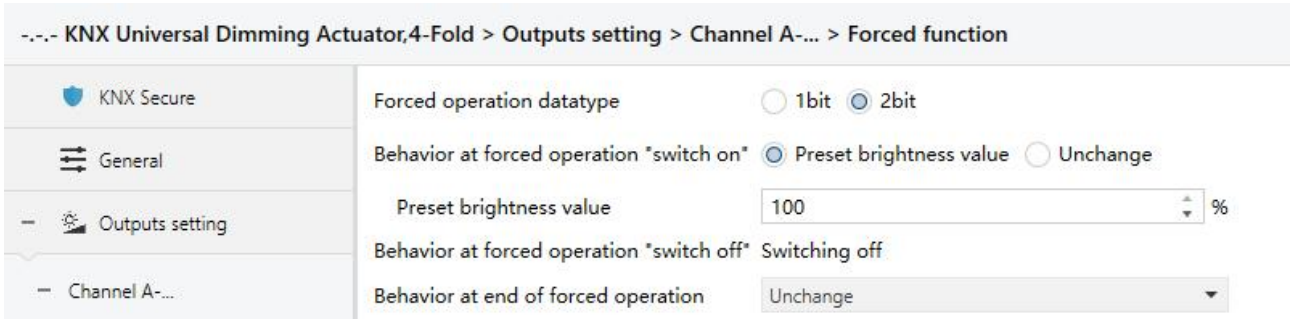
1 2 k k

2 k k

. . . .



1bit



2bit

5.3.3.4 “Forced function”

k k

k

k

k

1bit k 1bit / k

/

/

1bit k k

Switch off k

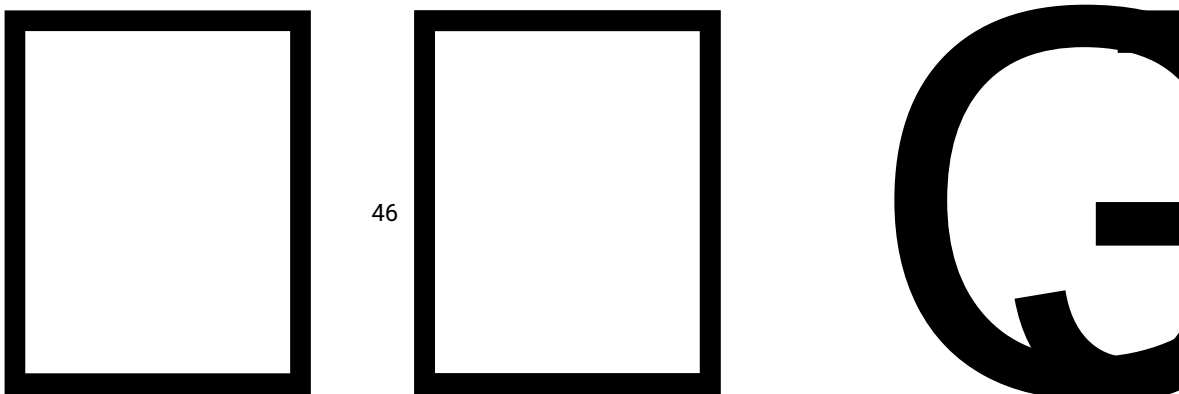
Preset brightness value k

Unchange k

Preset brightness value k k ... %

2bit k 2bit

Preset brightness value k k ... %



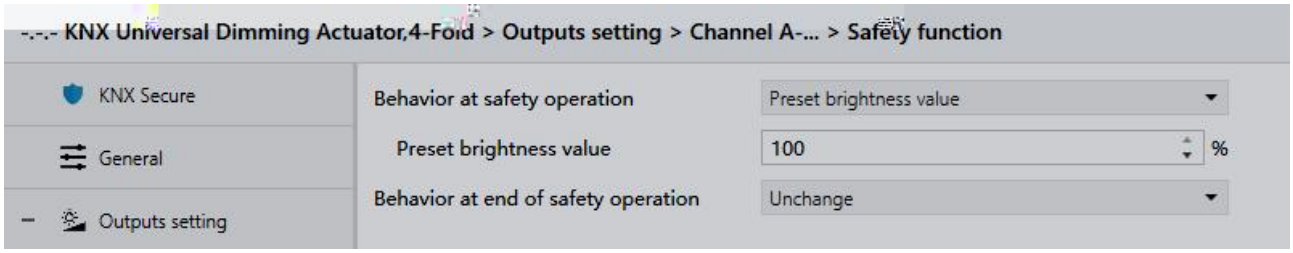
1. k

2.

k

Preset brightness value k k ... %

. . . .



5.3.3.5 “Safety function”

k k

/ k

Switch off k

Preset brightness value k

Unchange k

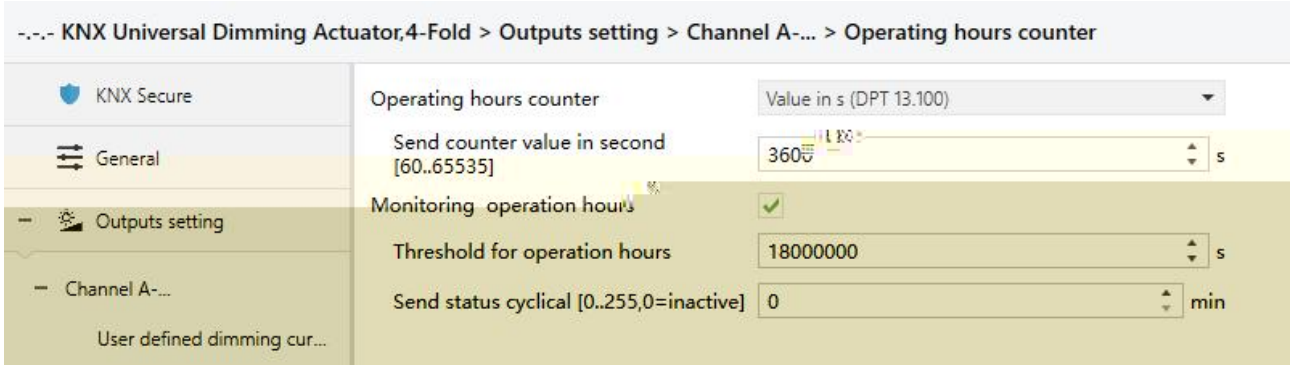
Preset brightness value k k ... %

1. k

2.

k

. . . .



5.3.3.6 “Operating hours counter”

k

k 0 k

k

(.)

(.)

..

Value in s (DPT 13.100) k k 3600s

3600s k ...

..

Value in h (DPT 7.007) k k 1h

1 k ...

k

k k

Value in s (DPT 13.100) ...

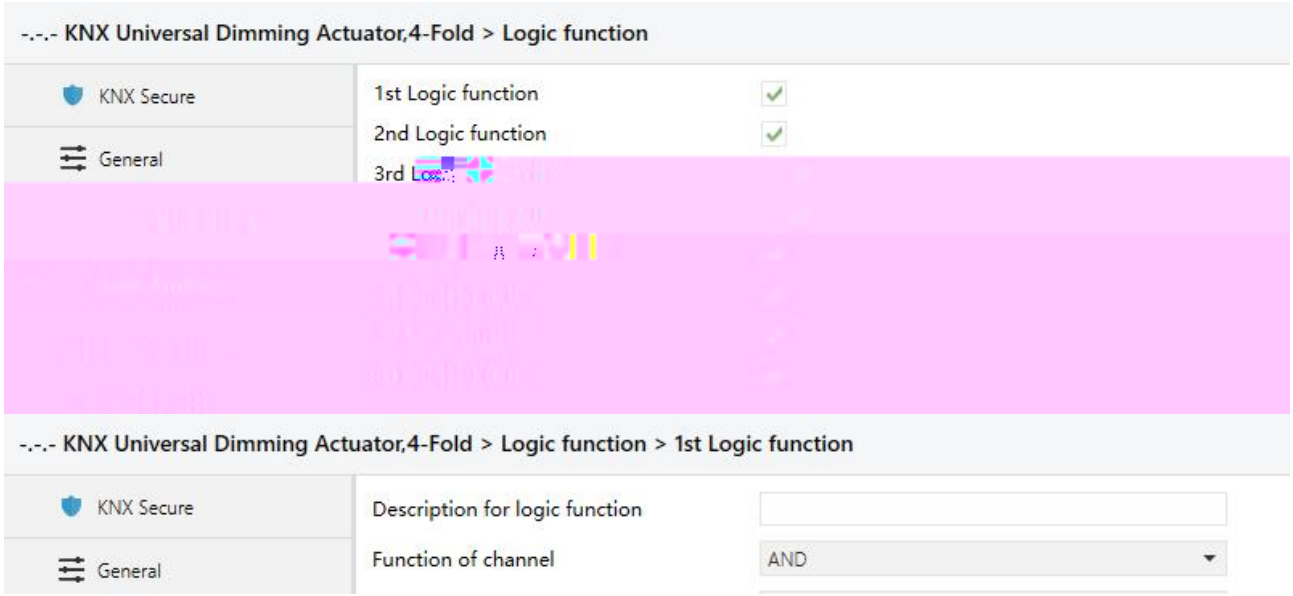
Value in h (DPT 7.007) ...

.. ,

0= k k

...

. .



5.4 “Logic function setting”

/ / ...

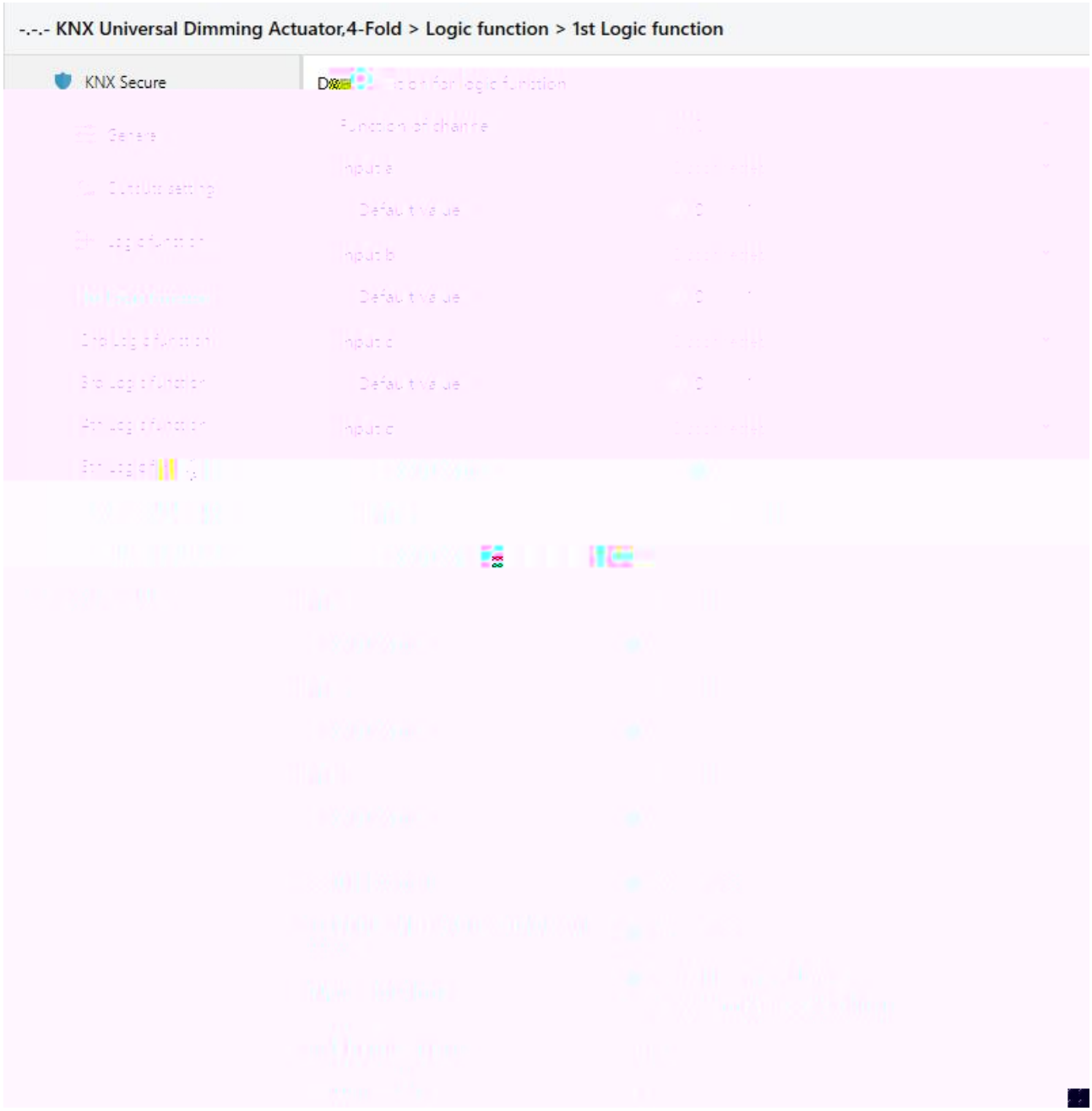
k 8 k

k 30 k

k

AND/OR/XOR k

. . . / /



5.4.1 “AND/OR/XOR”

/ / / / / / /

Input x k

Disconnected

Normal

Inverted k k

Input x k

k

No

Yes k

k

k

Receiving a new telegram

Every change of output object k

k

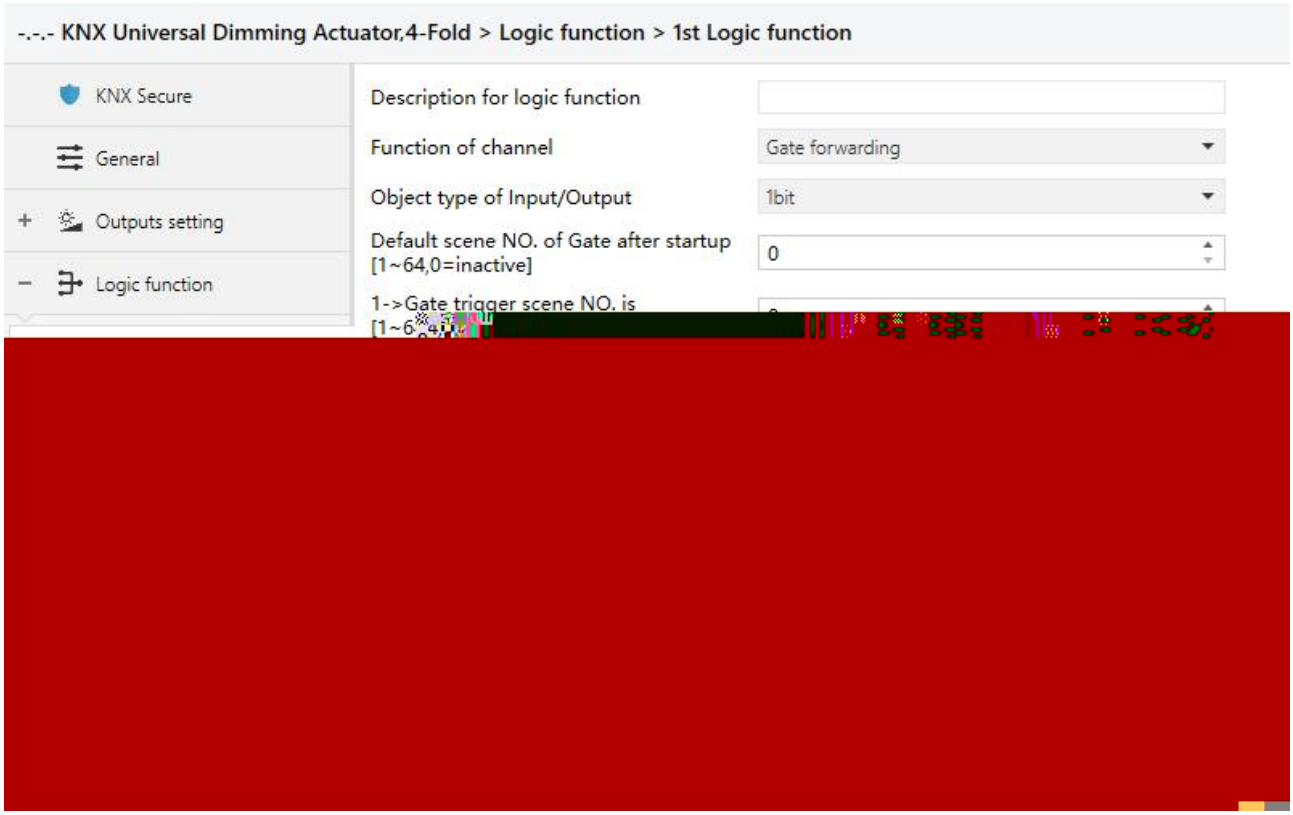
.

...

..

k Base × Factor Base “None” k

. . .

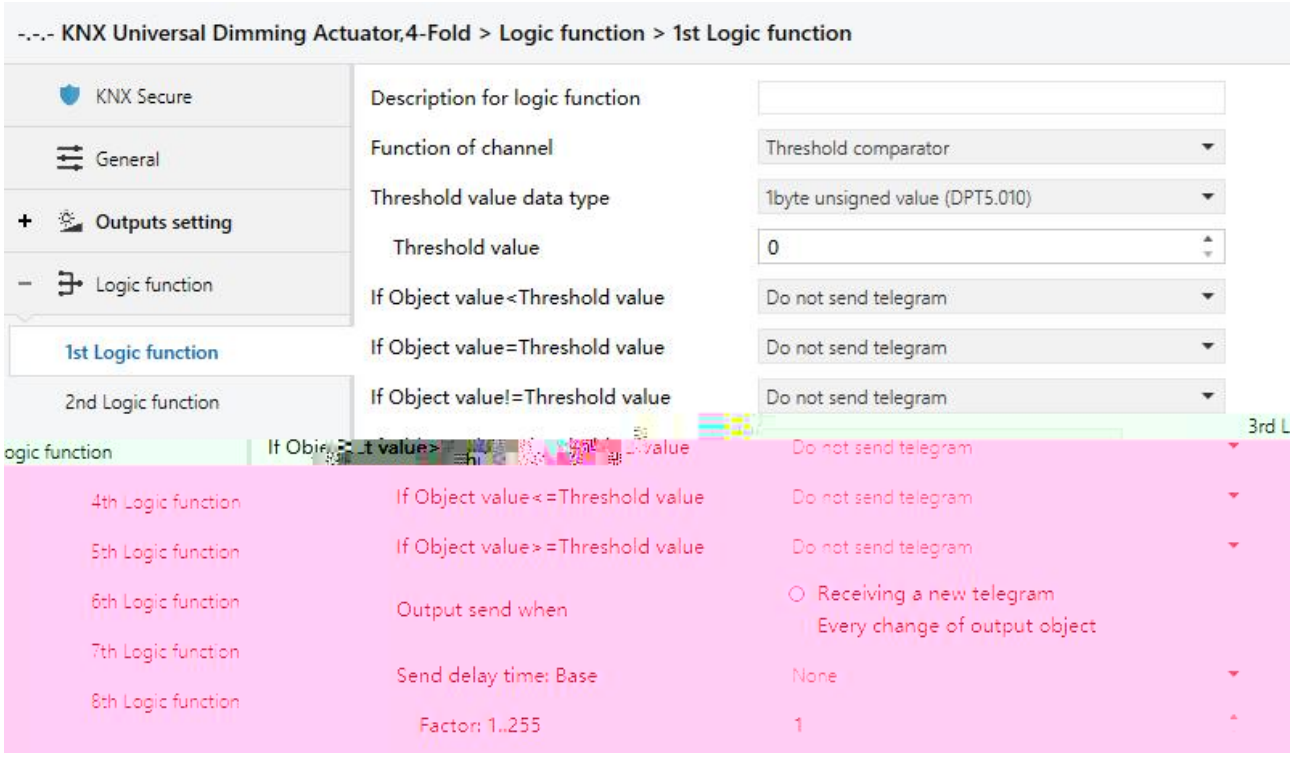


5.4.2 “Gate forwarding”

/

/ k

. . .



5.4.3 “Threshold comparator”

k

(.) ..

(.) . (.)

(.) . (.)

(.) (.)

(.)

k

(.) .. / (.) .. /

(.) .. / (.) - .. /

(.) - ... / ..

.. / . (.) - .. , / . (.)

.. % / (.) ..

“2byte float value (DPT9.x)” ¦ “Illuminance value (DPT 9.004)” k

k ..

!

! ! ! !

k “2byte float value (DPT9.x)” ¦ “Illuminance value (DPT 9.004)”

k

" "

" "

Do not send telegram

Send value “0”/“1” 0 1 k

k

k

Receiving a new telegram

Every change of output object k

k

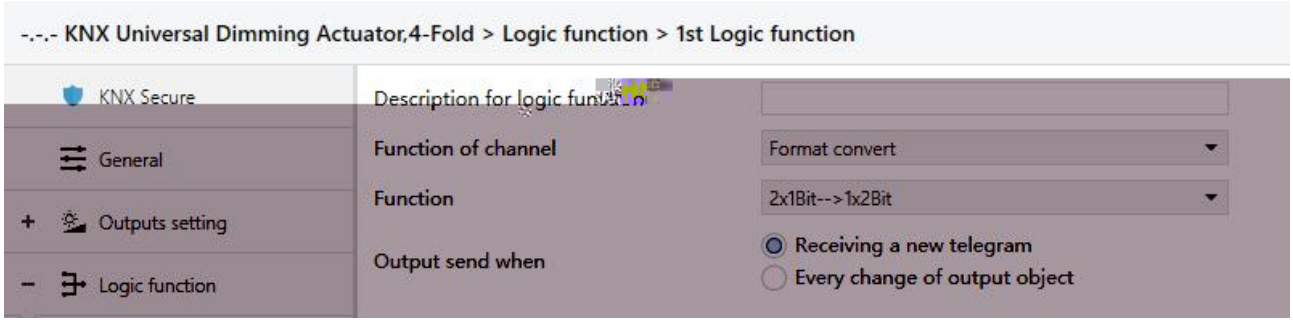
.

...

..

k Base × Factor Base “None” k

. . .



5.4.4 “Format convert”

k

--

--

--

--

--

--

--

--

--

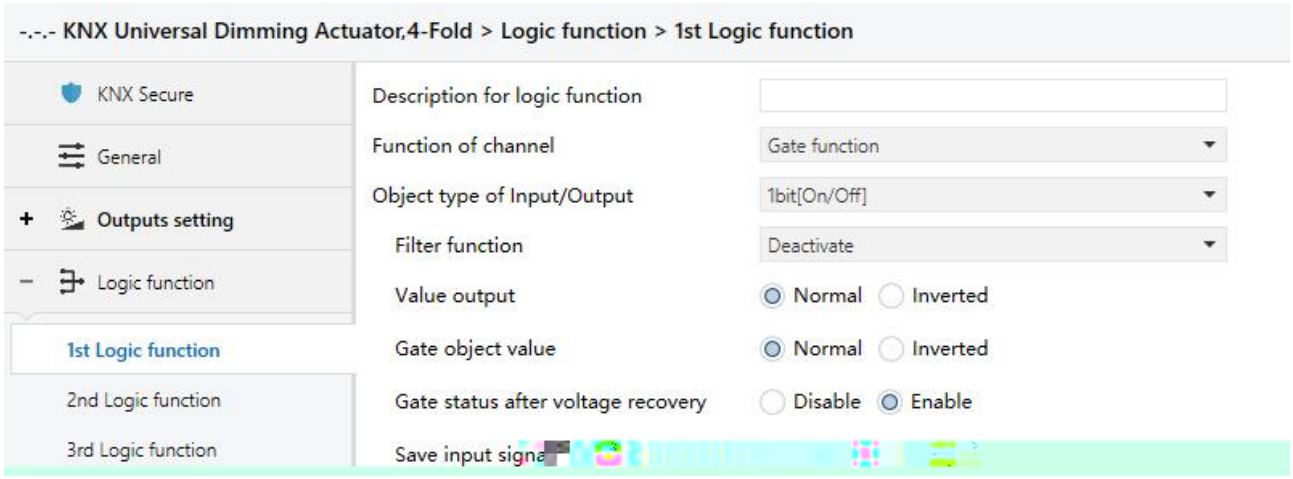
k

Receiving a new telegram

Every change of output object k

k

. . .



5.4.5 “Gate function”

/

/ k

/

.. %

..

..

. .

“1bit[On/Off]” k On Off

k

Deactivate On Off

On filter out Off On

Off filter out On Off k

“1bit[On/Off]” k k

k

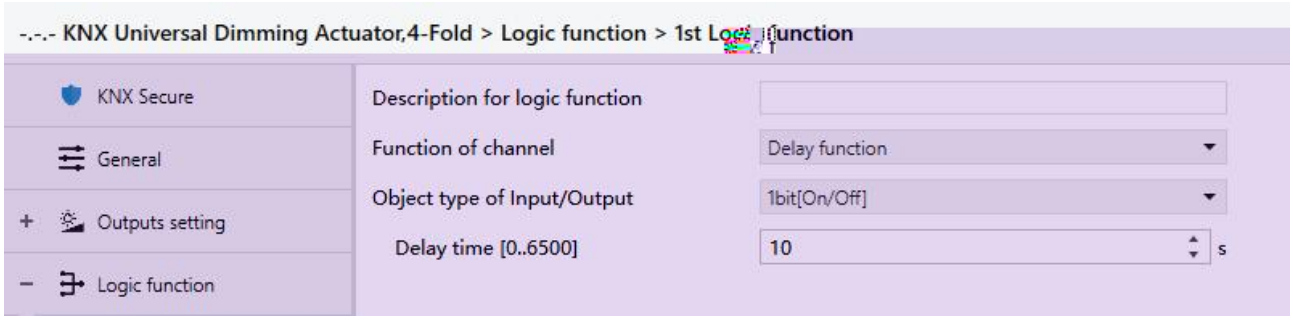
k

k

No

Yes k

. . .



5.4.6 “Delay function”

/

/ k

/

.. %

..

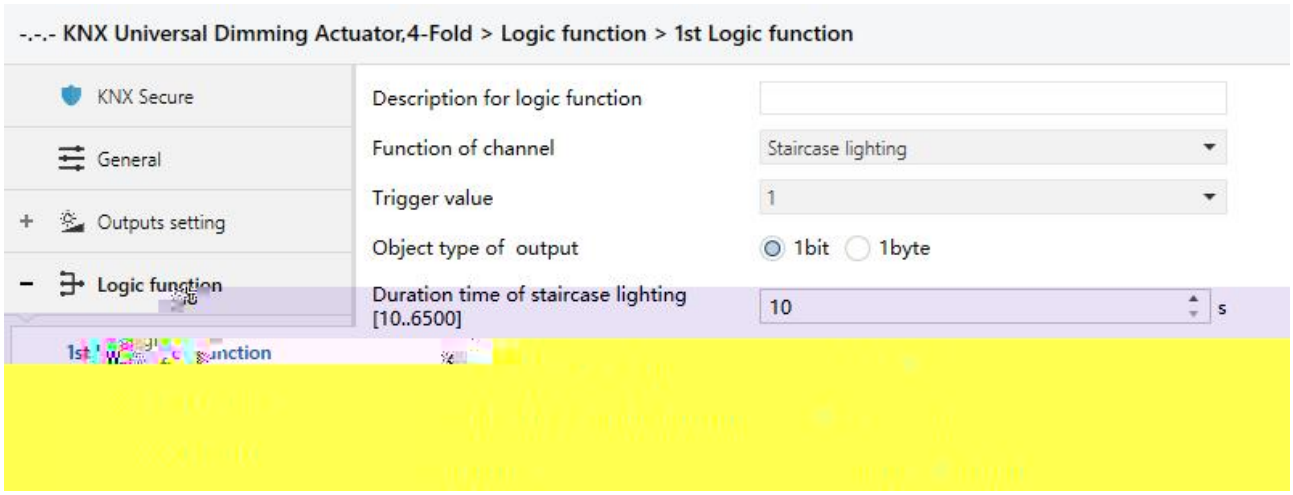
..

. . ..

k ..

k

. . .



5.4.7 “Staircase lighting”

“Trigger value” k

k

k ..

. .

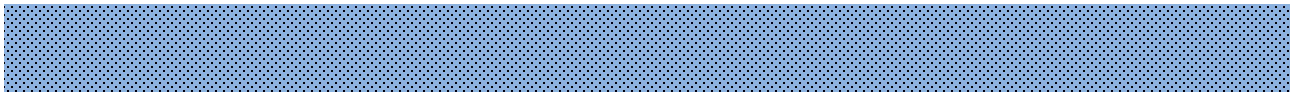
. .

k 1 2 k

k

1bit

1byte ..



k

k

k

. .

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
1	General	In operation			1 bit	C	-	-	T	-	switch	Low
2	General	Central: Switching			1 bit	C	-	W	-	-	switch	Low
3	General	Central: Relative dimming			4 bit	C	-	W	-	-	dimming control	Low
4	General	Central: Absolute dimming			1 byte	C	-	W	-	-	percentage (0..100%)	Low
5	General	Central: Safety			1 bit	C	-	W	-	-	alarm	Low

6.1 “General”

					DPT
				, ,	.
		“1”		k	k
				,	.
k					
				,	.
k					
				,	.
k					
				,	.
				!	1bit

k

		- ...		,	.
k 1~7 1 7 0 9~15 9 15 8 k					
		- ...		,	.
k 0...100%					
	,	- ...		, ,	.
k 0 1 0 0 k k					
	,	- ...		, ,	.
k k					
	- ,	- ...		, ,	.
k k 1 0					
	- ,	- ...		, ,	.
k k 1 0					
	- ,	- ...		, ,	.
k k 1 0					

		- ...		, ,	.

k

k k

1

0

		- ...		,	.

8bit k 8bit k

8bit ( ) FXNNNNNN

F ‘0’ ‘1’

X 0

NNNNNN 0...63 k

0 1 2 ... 63	1 2 3 ... 64
128 129 130 ... 191	1 2 3 ... 64

1~64 “Scene” 0~63 k

1 “Scene” 0 k

		- ...		,	.

Delay Switch k

		- ...		,	. /

Flashing Switch k k					
		- ...		,	. /
Staircase lighting k k					
	(..)	- ...		, ,	. ( )
Staircase lighting k k ETS k					
		- ...		, ,	.
Staircase lighting k 1 ˚ 0 ˚ k					
		- ...		,	. (..) . . . ( )
k k					
		- ...		, ,	. (..) . . . ( )
		- ...		, ,	. (..) . . . ( )
k 1/2 k ETS k 1 2 k					

		- ...	. , .

k k

1bit 1

0 k

2bit 3 2

1 0 k

k

		- ...	. ( ) , , , . ( )

0

k

		- ...	, .

0 k

1

0

		- ...	, , .

k k

1

0

. .

. . . / /

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
6	1st Logic	Input a			1 bit	C	-	W	T	U	boolean	Low
7	1st Logic	Input b			1 bit	C	-	W	T	U	boolean	Low
8	1st Logic	Input c			1 bit	C	-	W	T	U	boolean	Low
9	1st Logic	Input d			1 bit	C	-	W	T	U	boolean	Low
10	1st Logic	Input e			1 bit	C	-	W	T	U	boolean	Low
11	1st Logic	Input f			1 bit	C	-	W	T	U	boolean	Low
12	1st Logic	Input g			1 bit	C	-	W	T	U	boolean	Low
13	1st Logic	Input h			1 bit	C	-	W	T	U	boolean	Low
14	1st Logic	Logic result			1 bit	C	-	-	T	-	boolean	Low

6.3.1 “AND/OR/XOR”

					DPT
/.../	/ /../			, , ,	.
Input a/b/../h k “Description for logic function” “1st Logic” k k					
				,	.
k					

6.3.1 “AND/OR/XOR”

. . .

6.3.2 “Gate forwarding”

					DPT
				,	.
k					
/.../				,	. . . (..)
Input x k					
/../				,	. . . (..)
k k					

6.3.2 “Gate forwarding”

. . .

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
6	1st Logic	Threshold value input			4 bit	C	-	W	-	U	dimming control	Low
6	1st Logic	Threshold value input			1 byte	C	-	W	-	U	counter pulses (0..255)	Low
6	1st Logic	Thre sh										
6	1st Logic	Thre o										
6	1st Logic	Threshold value input			2 bytes	C	-	W	-	U	2-byte float value	Low
6	1st Logic	Threshold value input			4 bytes	C	-	W	-	U	counter pulses (unsigned)	Low
6	1st Logic	Threshold value input			2 bytes	C	-	W	-	U	temperature (°C)	Low
6	1st Logic	Thre sh										
6	1st Logic	Thre sh										

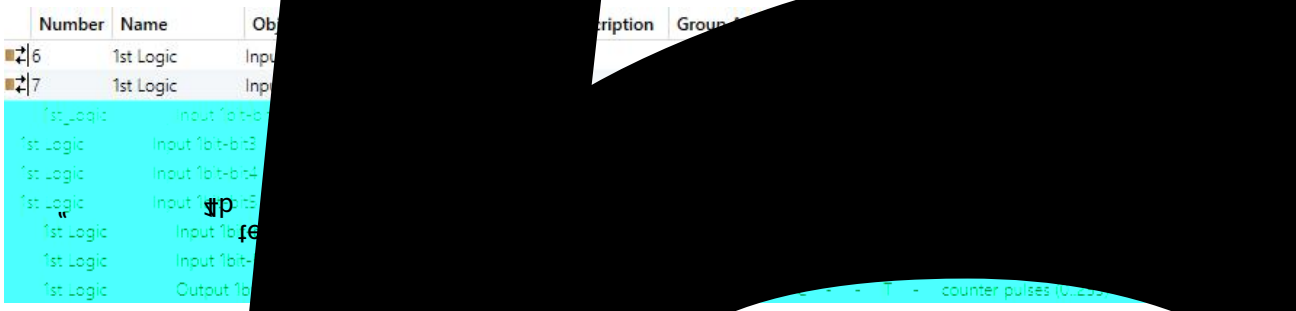
6.3.3 “Threshold comparator”

					DPT
				, ,	. . . .
k					
				,	.
k					k

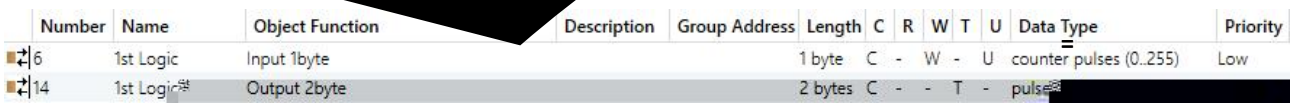
6.3.3 “Threshold comparator”

. . .

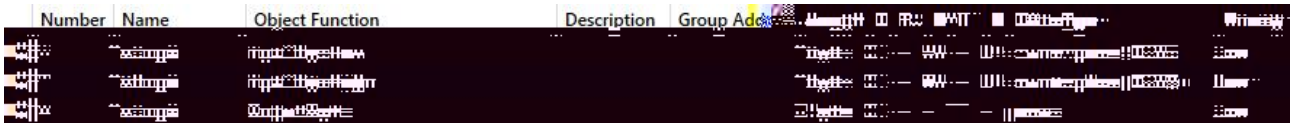
“2x1bit --> 1x2bit” 2bit Input bit1=1



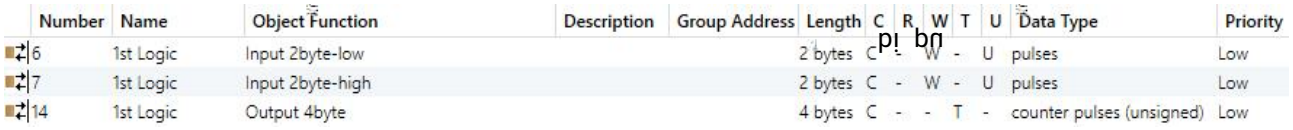
“8x1bit --> 1x1by byte Input bit2=1, bit1=1, bit0=1, Output 1byte=7



“1x1byte --> 1x2byte” 1byte 2byte Input 1byte=125--> Output 2byte=125,



“2x1byte --> 1x2byte” 2 1byte 2byte Input 1byte-low = 255 ($FF), Input 1byte-high = 100 ($64) --> Output 2byte = 25855 ($64 FF)



“2x2byt byte 4byte Input 2byte-low = 65530 ($FF FA), Input

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
6	1st Logic	Input 2byte			2 bytes	C	-	W	-	U	pulses	Low
13	1st Logic	Output 1byte-low			1 byte	C	-	-	T	-	counter pulses (0..255)	Low
14	1st Logic	Output 1byte-high			1 byte	C	-	-	T	-	counter pulses (0..255)	Low

“1x2byte --> 2x1byte” 1 2byte 2 1byte Input 2byte = 55500 ($D8 CC) --> Output 1byte-low = 204 ($CC), Output 1byte-high =216 ($D8)

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
6	1st Logic	Input 4byte			4 bytes	C	-	W	-	U	counter pulses (unsigned)	Low
13	1st Logic	Output 2byte-low			2 bytes	C	-	-	T	-	pulses	Low
14	1st Logic	Output 2byte-high			2 bytes	C	-	-	T	-	pulses	Low

“1x4byte --> 2x2byte” 1 4byte 2 2byte Input 4byte = 78009500 ($04 A6 54 9C) --> Output 2byte-low = 21660 ($54 9C), Output 2byte-high =1190 ($04 A6)

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
6	1st Logic	Input 3byte			3 bytes	C	-	W	-	U	RGB value 3x(0..255)	Low
12	1st Logic	Output 1byte-low			1 byte	C	-	-	T	-	counter pulses (0..255)	Low
13	1st Logic	Output 1byte-middle			1 byte	C	-	-	T	-	counter pulses (0..255)	Low
14	1st Logic	Output 1byte-high			1 byte	C	-	-	T	-	counter pulses (0..255)	Low

“1x3byte --> 3x1byte” 1 3byte 3 1byte Input 3byte = $78 64 C8--> Output 1byte-low = 200 ($C8) , Output 1byte-middle = 100 ($64) , Output 1byte-high =120 ($78)

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
6	1st Logic	Input 1byte-low			1 byte	C	-	W	-	U	counter pulses (0..255)	Low
7	1st Logic	Input 1byte-middle			1 byte	C	-	W	-	U	counter pulses (0..255)	Low
8	1st Logic	Input 1byte-high			1 byte	C	-	W	-	U	counter pulses (0..255)	Low
14	1st Logic	Output 3byte			3							

“3x1byte --> 1x3byte” 3 1byte 1 3byte Input 1byte-low = 150 ($96), Input 1byte-middle = 100 ($64), Input 1byte-high = 50 ($32)--> Output 3byte = $32 64 96

6.3.4 “Format convert”

					DPT
	...			, ,	. . (..) . . (..) .
k					
	...			,	. . . (..) . . (..) .
k					

6.3.4 “Format convert”

. . .

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
6	1st Logic	Input			1 bit	C	-	W	-	-	switch	Low
7	1st Logic	Gate input			1 bit	C	-	W	-	-	boolean	Low
14	1st Logic	Output			1 bit	C	-	-	T	-	switch	Low

Input/Output - 1bit[On/Off]

6	1st Logic	Input			1 byte	C	-	W	-	-	percentage (0..100%)	Low
7	1st Logic	Gate input			1 bit	C	-	W	-	-	boolean	Low
14	1st Logic	Output			1 byte	C	-	-	T	-	percentage (0..100%)	Low

Input/Output - 1byte[0..100%]

6	1st Logic	Input			1 byte	C	-	W	-	-	counter pulses (0..255)	Low
7	1st Logic	Gate input			1 bit	C	-	W	-	-	boolean	Low
14	1st Logic	Output			1 byte	C	-	-	T	-	counter pulses (0..255)	Low

Input/Output - 1byte[0..255]

6	1st Logic	Input			2 bytes	C	-	W	-	-	temperature (°C)	Low
7	1st Logic	Gate input			1 bit	C	-	W	-	-	boolean	Low
14	1st Logic	Output			2 bytes	C	-	-	T	-	temperature (°C)	Low

Input/Output - 2byte[Float]

6	1st Logic	Input			2 bytes	C	-	W	-	-	pulses	Low
7	1st Logic	Gate input			1 bit	C	-	W	-	-	boolean	Low
14	1st Logic	Output			2 bytes	C	-	-	T	-	pulses	Low

Input/Output - 2byte[0..65535]

6.3.5 “Gate function”

					DPT
				,	. . . . .
k					
				,	.
k k					
				,	. . . . .
k					“Gate input” k

6.3.5 “Gate function”

. . .

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
6	1st Logic	Input			1 bit	C	-	W	-	-	switch	Low
14	1st Logic	Output			1 bit	C	-	-	T	-	switch	Low

1bit[On/Off]

6	1st Logic	Input			1 byte	C	-	W	-	-	percentage (0..100%)	Low
14	1st Logic	Output			1 byte	C	-	-	T	-	percentage (0..100%)	Low

1byte[0..100%]

6	1st Logic	Input			1 byte	C	-	W	-	-	counter pulses (0..255)	Low
14	1st Logic	Output			1 byte	C	-	-	T	-	counter pulses (0..255)	Low

1byte[0..255]

6	1st Logic	Input			2 bytes	C	-	W	-	-	temperature (°C)	Low
14	1st Logic	Output			2 bytes	C	-	-	T	-	temperature (°C)	Low

2byte[Float]

6	1st Logic	Input			2 bytes	C	-	W	-	-	pulses	Low
14	1st Logic	Output			2 bytes	C	-	-	T	-	pulses	Low

2byte[0..65535]

6.3.6 “Delay function”

					DPT
				,	. . . . .
k					
				,	. . . . .
k					

6.3.6 “Delay function”

. . .

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
6	1st Logic	Trigger value			1 bit	C	-	W	-	-	trigger	Low
7	1st Logic	Light-on duration time			2 bytes	C	-	W	-	-	time (s)	Low
14	1st Logic	Output			1 bit	C	-	-	T	-	switch	Low
14	1st Logic	Output			1 byte	C	-	-	T	-	counter pulses (0..255)	Low

6.3.7 “Staircase lighting”

					DPT
				,	.
k					
	-			,	. ( )
k					
				,	. .
1 2 k k					

6.3.7 “Staircase lighting”