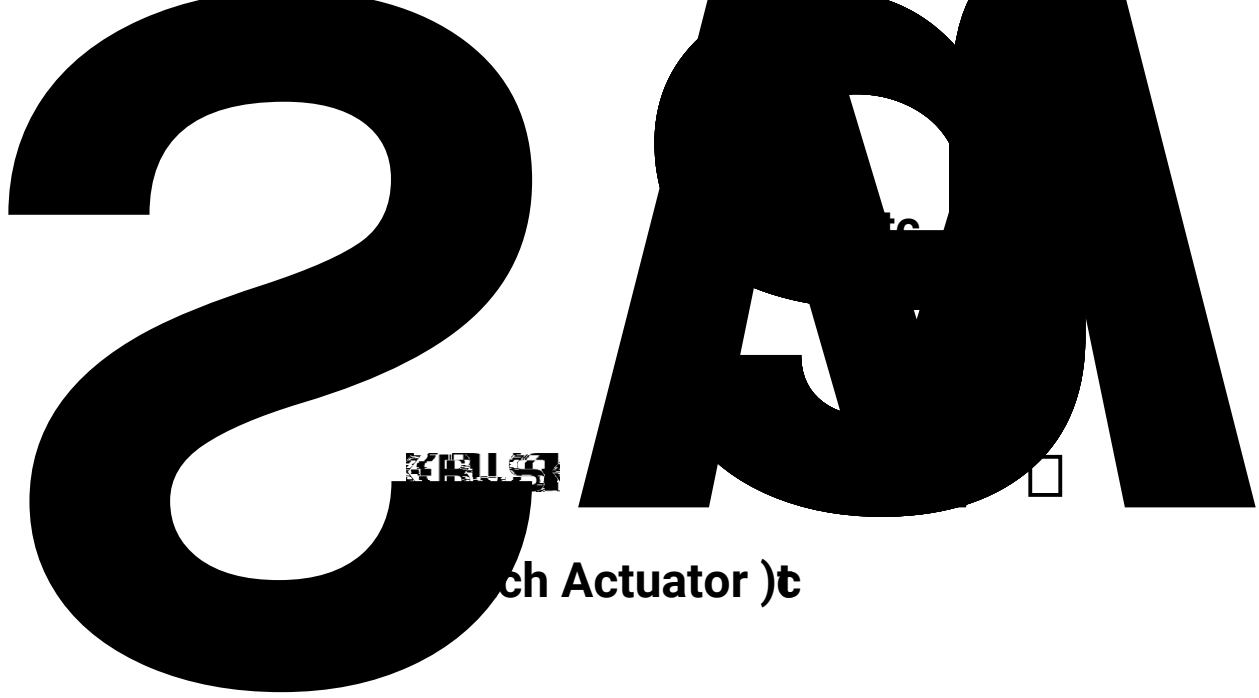




ch Actuator)t

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4、请勿自行拆卸本设备



☐	-----	1
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ARSA-xx/16.S

ARSA-xx/20.S





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- KNX

[illegible]





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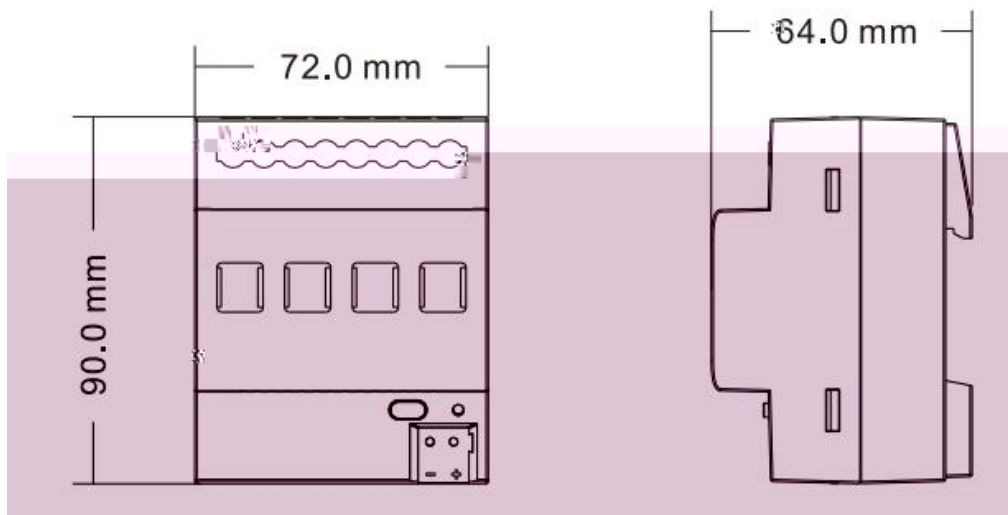
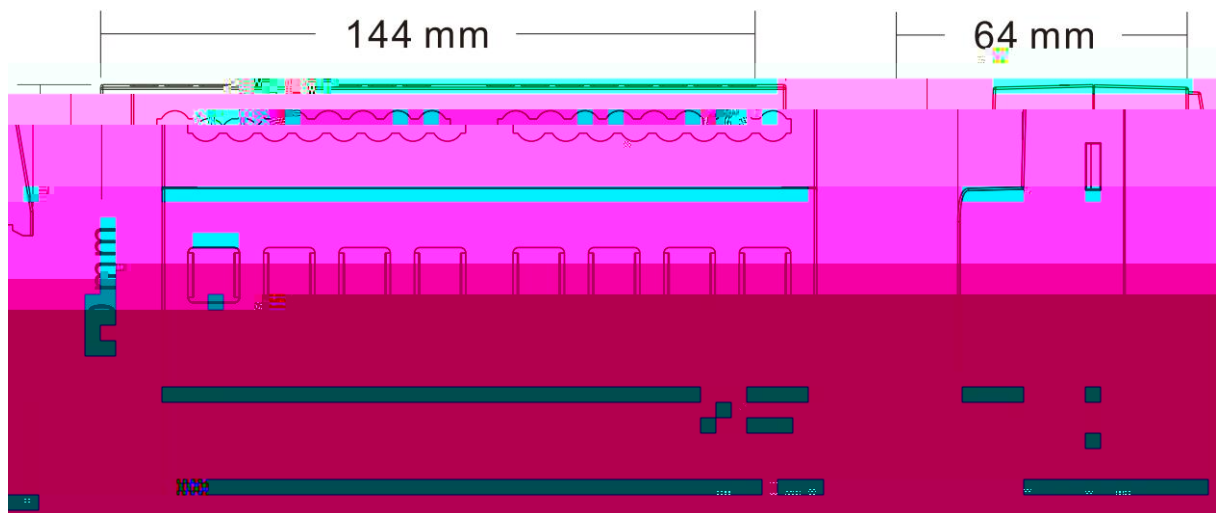
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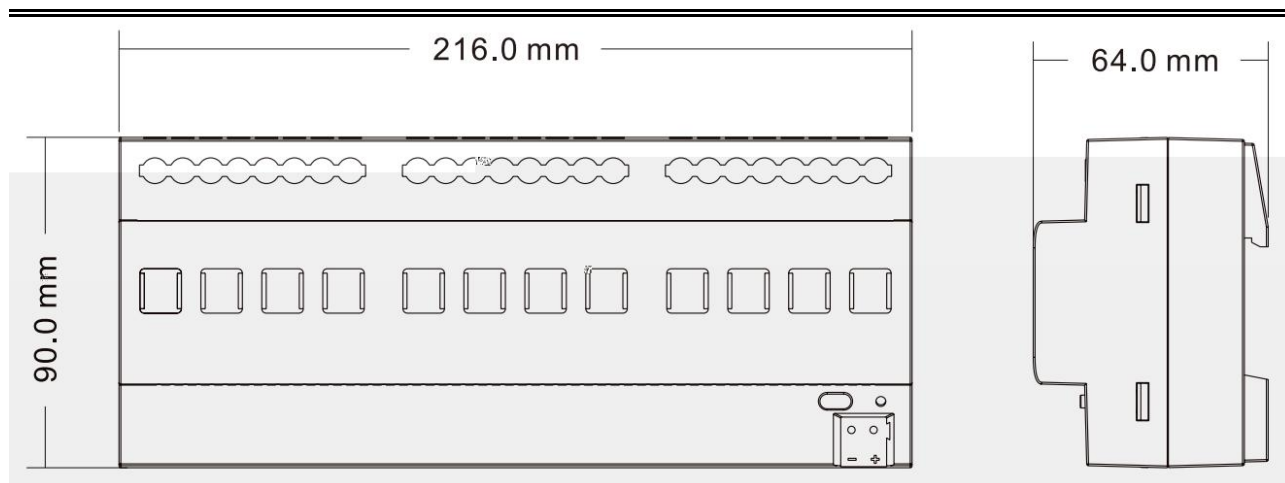


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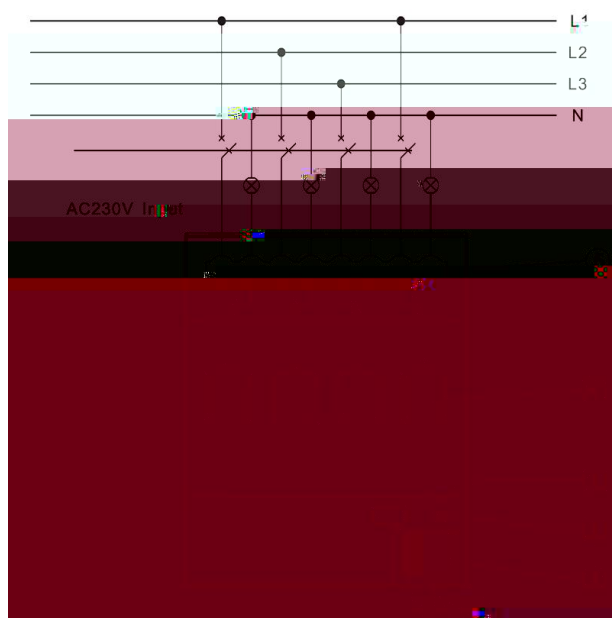
3.1.



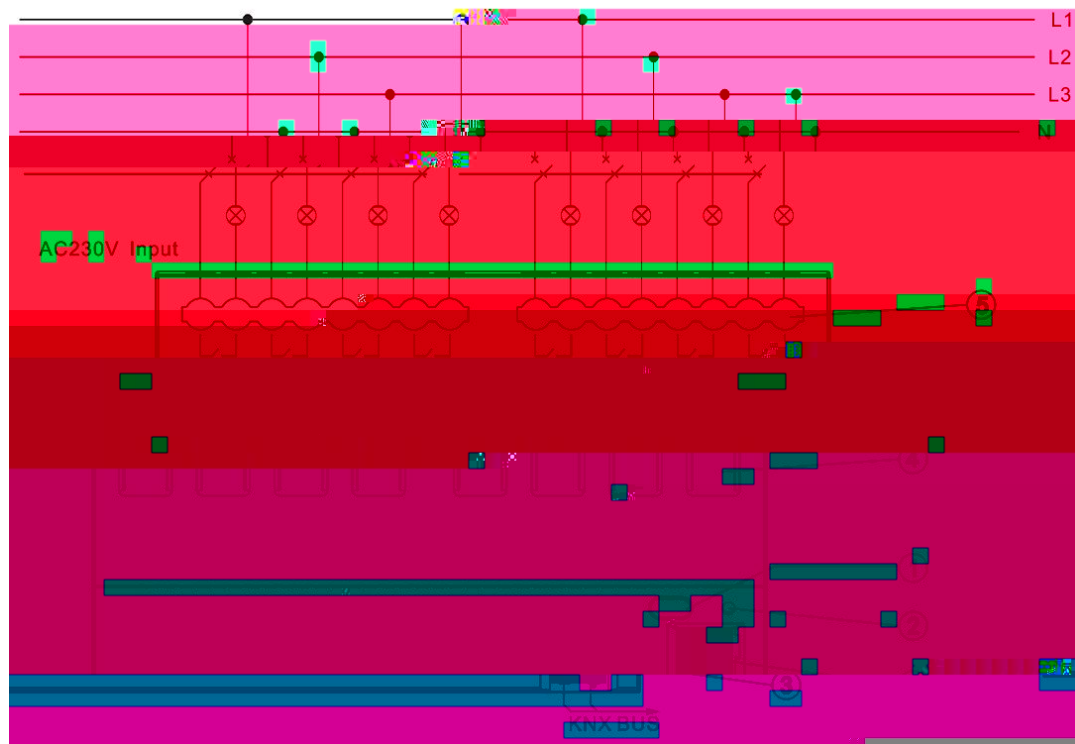


3.2. □

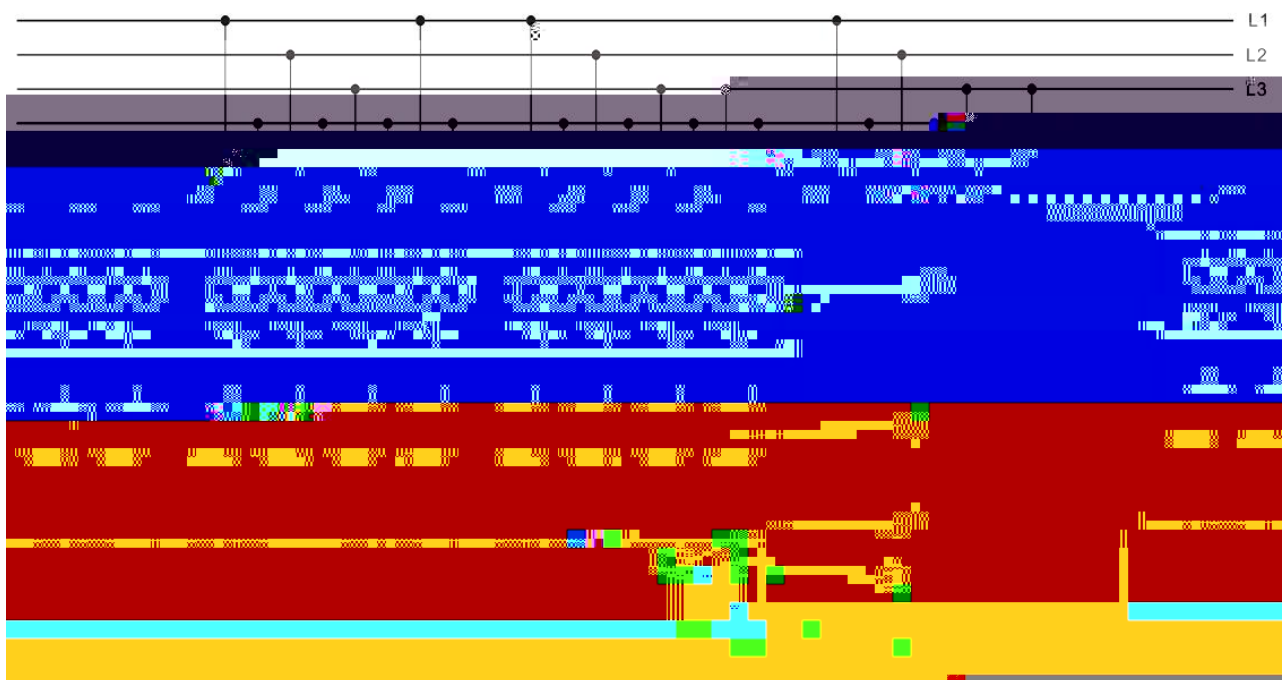
3.2.1. ARSA-04/16.S □ ARSA-04/20.S □



3.2.2. ARSA-08/16.S □ ARSA-08/20.S □



3.2.3. ARSA-12/16.S □ ARSA-12/20.S □



Ö □

 $\tilde{O} \quad k \quad \square \quad \square$ $\square \tilde{O} \quad k$ 

Ö

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5

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

Ö

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k

☐ k ☐ ☐ ☐

 $\square$ k

 The device certificate label (stick) called EDSK is attached beside the device, and you must use for security direction; make sure keep securely.

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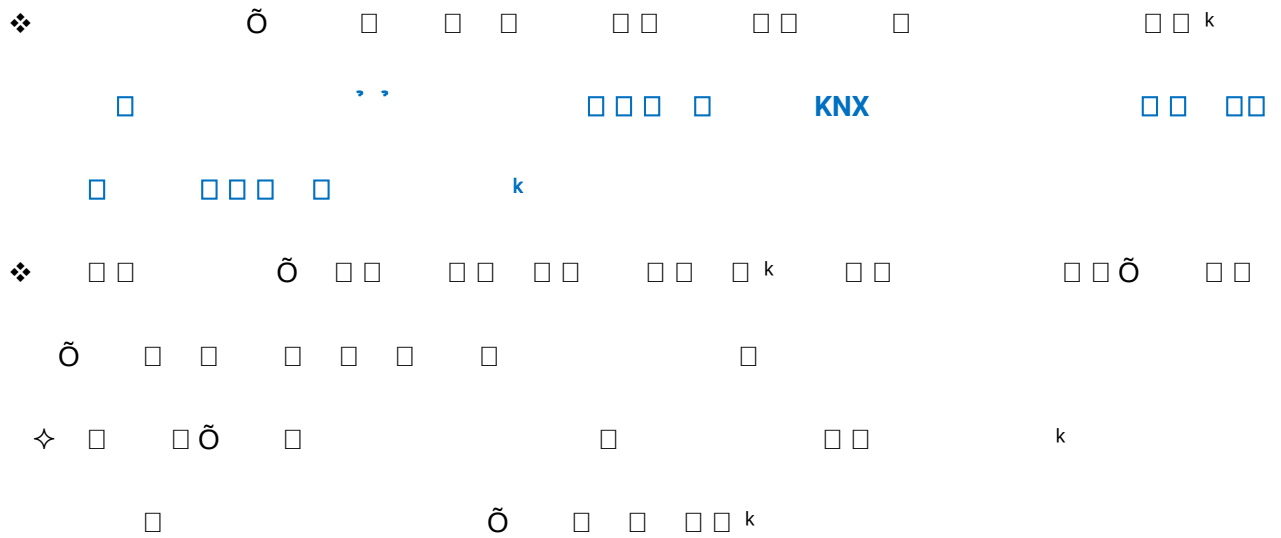
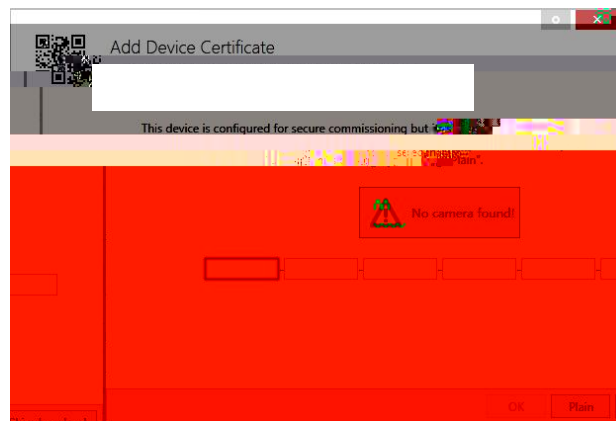
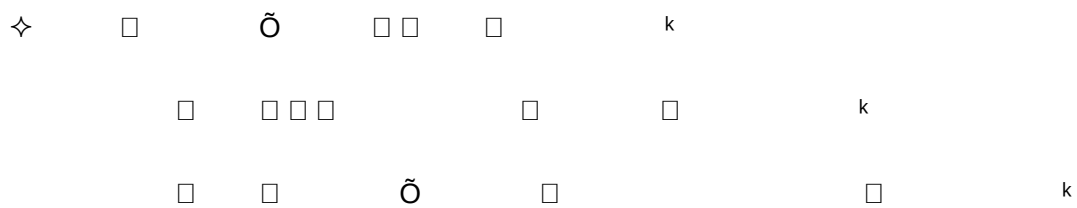
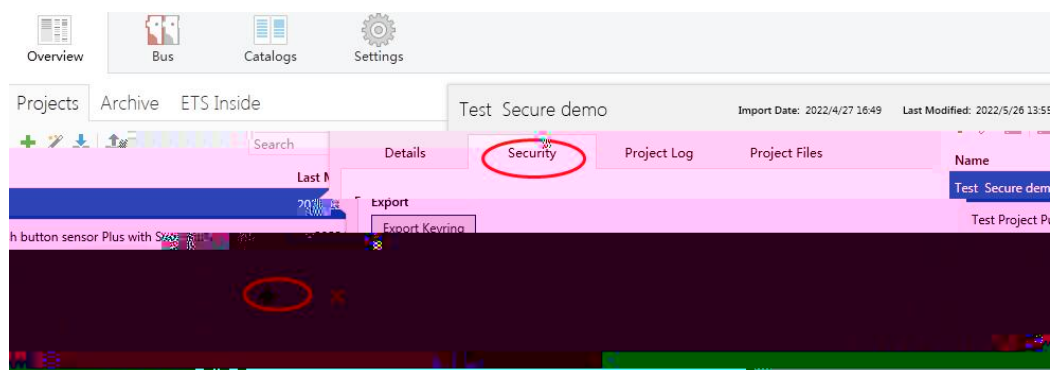
7

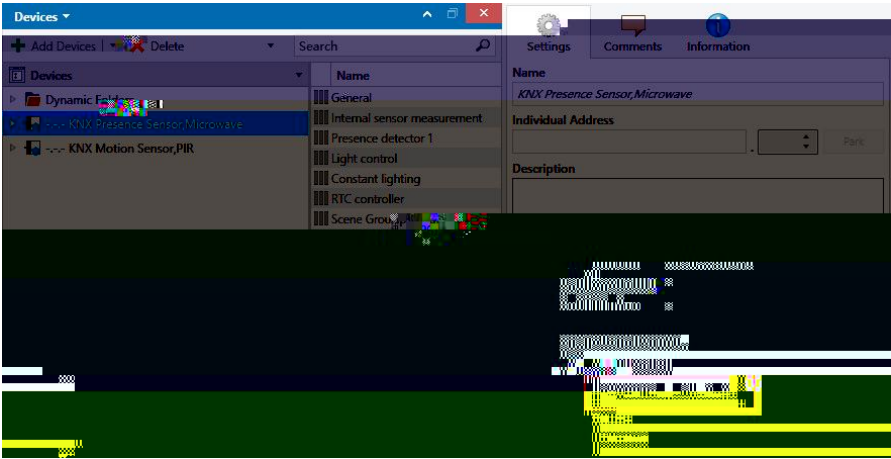
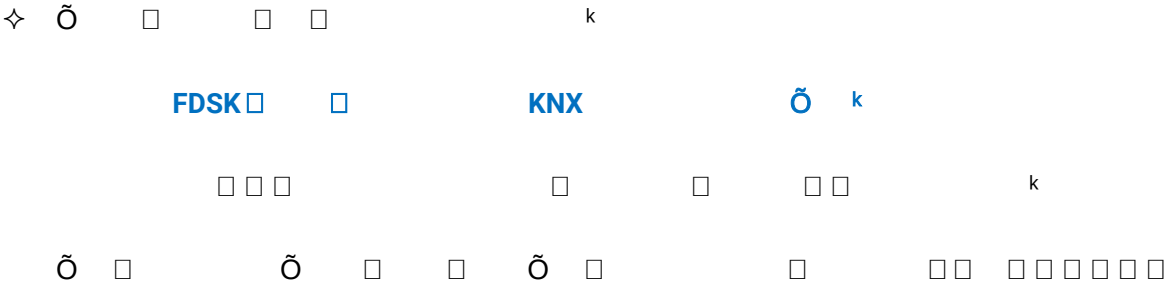
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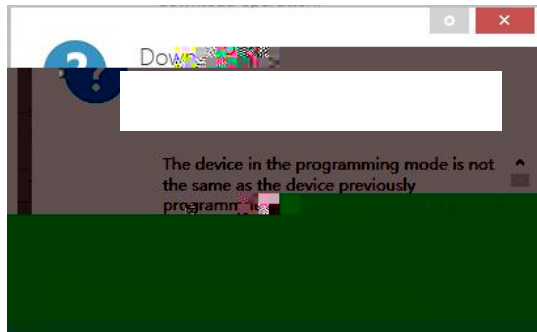
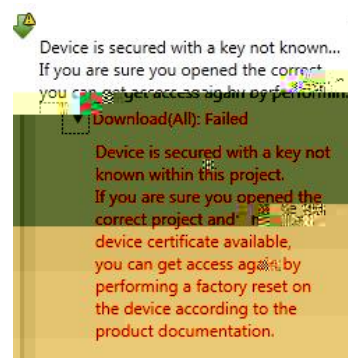






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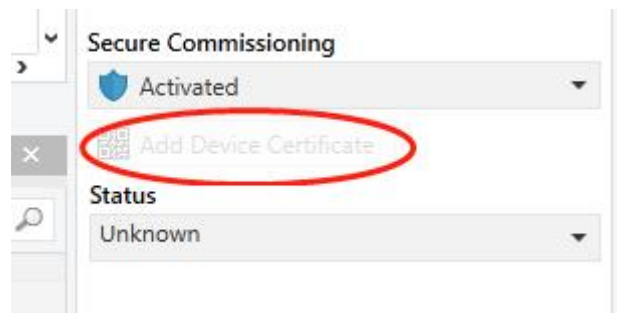
□ □ □ □ □ □ k



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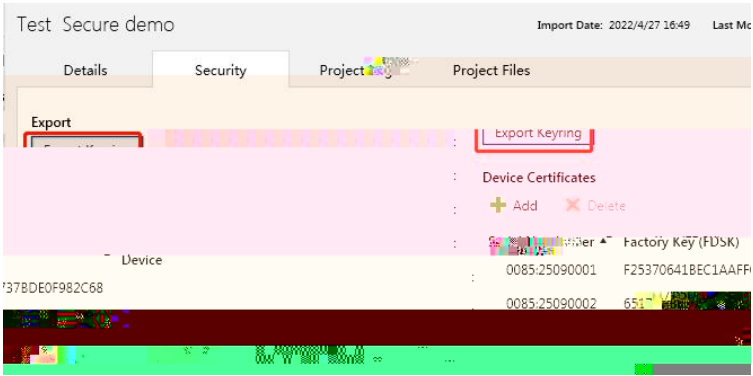
Ő □ □ □ FDSK k

Ő □ □ □ □ □ Ő □ □ k



□ □

□ □ □ □ □ k



KNX



USB



ETS



k

4.2. Õ □ “General”

Õ □ □ □ Õ □

□ k k □

Switch Actuator with Secure, 4-Fold > General

KNX Secure

Product type4-Fold Output

General

Operation delay after bus recovery [10...250]10 s

Channel 1

Safety priority 2

Control period of safety priority 2 (M243.0=inactive)0 s

Priority of safety operationPriority of 2 is higher than that of 19

Minimum object value of switch on/offX=switch on; 0=switch off

Switch on=contact close; Switch off=contact open

Õ □

□ Product type □

□ □ □ □ □

4-Fold Output !

8-Fold Output !

12-Fold Output !

□ Operation delay after bus recovery [10..250] □

□ Õ □ □ □ □ □ □ □

□ k Õ □ □ □ □ □ □ □ k

□ □ 10...250 s

□ □ □ Õ □ □ □ □ □ □ □ □ □ □ □

K-BUS®

□ □ □ □ □ k

Ö □ □ □ □ □ □ □ □

□ □ □ Ö k □ Ö □ □ Ö k

□ Control period of safety priority x [1..240, 0 = inactive] □ (x = 1, 2)

□ □ □ □ k □ □ □ □

□ □ □ □ □ k

□ □ □ □ □ □ □ □ □ □

□ □ □ □ k □ □ **0...240 s**

□ □ □ k □ □ □ □ □

□ □ □ □ □ k Ö □ k

□ □ □ □ □

k

□ Priority of safety operation □

□ □ □ k

□ Normal, object value of switch on/off □

□ □ □ □

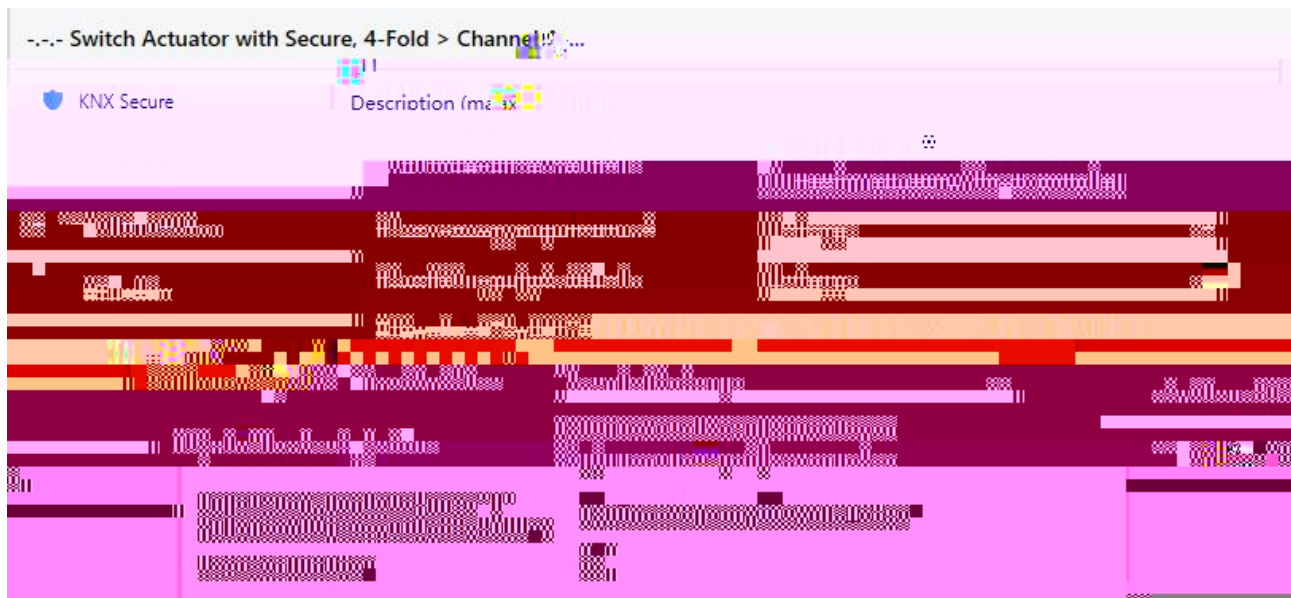
□ Switch on □ □ □ □ Switch off □ □ □ k

1

The image is a screenshot of a KNX configuration interface. At the top, there is a light gray header bar containing several icons: a square, a circle, a square, a circle, a square, a circle, a square, a circle, and a square. Below the header bar, the main content area is divided into two sections. The top section has a light gray background and contains the text "Switch Actuator with Secure, 4-Fold > Channel A-...". The bottom section has a white background and contains a text input field with the placeholder text "Description (max.30 characters)". To the left of the input field is a small blue shield icon with the text "KNX Secure". Below the input field, there is a light blue bar with a pattern of small dots. At the bottom of the screen, there is a dark blue bar with a pattern of small dots, containing the text "Description".

4.4. “Channel X” – Switch actuator

   k



..  

“If bus recovery, output status is”

    k  

Unchange

Contact open

Contact close

As before bus failure

    k

   k

$$\square \quad \tilde{O} \quad \tilde{O} \quad \square \quad k \quad \square \quad \square$$

Contact close

A 3x4 grid of squares. The bottom right square contains the letter 'k'.

$\square$ $\square$ $\square$ $\square$ $\square$ $\tilde{O}$ $\square \square$ $\square$ $\square$ $\square$
 $\square$ k $\square \square$

To write with “1”

□ □ k

$$\square \quad \tilde{O} \quad \square \quad \square \quad k \quad \square \quad \square$$

Transmit after change

The diagram illustrates a network structure with nodes and connections. The nodes are represented by small squares. Some nodes are labeled with 'k' and 'O' with a tilde. The connections form a complex web, with some nodes having multiple connections.

“Object value of switch status”

□

□ k

□ □

0=contact close ; 1=contact open

0=contact open ; 1=contact close

Ö

□ □ □

□

□ □ □ □ □

$$\begin{array}{ccccccc} \square & \tilde{\mathcal{O}} & & \square & \square & \square & \square \\ \square & \square & \square & \tilde{\mathcal{O}} & \square & & \square \\ \square & \square & \square & \tilde{\mathcal{O}} & k & \tilde{\mathcal{O}} & \square \\ & & & & \square & \square & \square \\ & & & & \square & \square & \square \\ & & & & & \square & \square \\ & & & & & & k \end{array}$$
[illegible]

☐ Õ ☐ ☐ ☐ ☐ k ☐ ☐

Delay switch

Flashing switch ☐

Staircase lighting



☐ ☐ Õ k ☐ ☐

KNX Secure	The mode of time function	Flashing switch
General	Duration of switch on(contact close) --(0...240 minutes)	0
Channel A...	--(0...59 seconds)	0
A:Function	Duration of switch off(contact open) --(0...240 minutes)	0
A:Time	--(0...59 seconds)	0
A:Preset	Number of ON-impulses [1..255,0=no limited]	0
A:Logic	Output status after flashing	Unchange
A:Scene	Control mode of flashing	Flash 1st, Stop with 0

9

☐ ☐ ☐ ☐ ☐ ☐ k ☐ ☐ ☐

$\tilde{O}$ k ☐ ☐ ☐ ☐

□ □ □ k □ □

$$\square \quad \tilde{O} \quad k$$

"Duration of switch on(contact colose): --(0..240 minutes) / -- (0..59 seconds)"

$$\tilde{O} \quad \square \quad \square \quad \square \quad \square \quad \square \quad k \quad \square \quad \square$$

0...240 min

0...59 s

"Duration of switch off(contact open): --(0..240 minutes) / -- (0..59 seconds))"

$$\tilde{\mathcal{O}} \quad \square \quad \square \quad \square \quad \square \quad \square \quad k \quad \square \quad \square$$

0...240 min

0...59 s

$\square$

$$\square \quad \tilde{O} \quad \square \quad \square \quad \square \quad k \quad \square \quad \square \quad k$$

□ **Output status after flashing**

$$\square \quad \tilde{\mathcal{O}} \quad \square \qquad \qquad \square \qquad \qquad k \qquad \square \quad \square$$

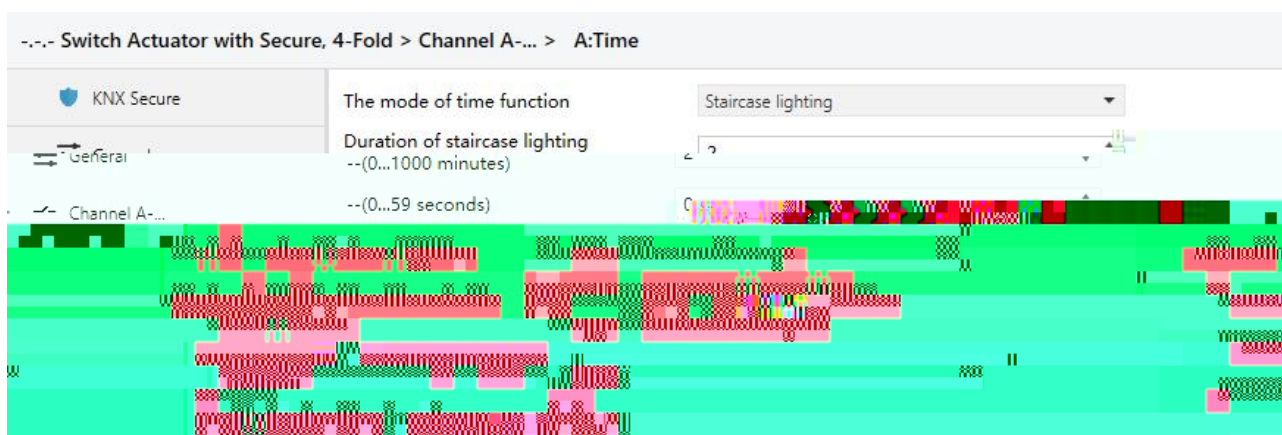
Contact close

☐ $\tilde{O}$ ☐ k ☐ ☐

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

4.4.1.3. "Staircase lighting function"

□ □ Ő □ k



□

□ □ □ □ k □ □
 □ k □ □ □ k
 Ő □ □ Ő □ □ □ □ k

"Duration of staircase lighting --(0...1000 minutes) / --(0...59 seconds)"

□ Ő □ k □ □

0...1000 min

0...59 s

"Control mode of staircase lighting"

□ Ő k □ □

Start with "1", OFF with "0"

Start with "1", no action with "0"

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

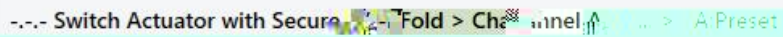
□ □ □ □ □ □ □ □
 □ □ □ □ □ □ □ □
 □ □ □ □ □ □ □ □



$\square$

$\square \quad \square \quad k \quad \square \quad \square \quad \square \quad \square \quad k$

Œ □ “X: Preset”

$$\square \tilde{O} \quad \tilde{O} \quad \square k$$


□ Õ □ □ Õ □ □ □ Õ □ Õ □

 $\square \tilde{O} \quad k$
$$\square \quad \square \square \quad \square \quad \square \tilde{\mathcal{O}} \quad k \quad \square \square \quad \square \tilde{\mathcal{O}} \quad \square \square \tilde{\mathcal{O}} \quad \square \tilde{\mathcal{O}} \quad \square$$
$$\square \quad \square \quad \square \quad \square \tilde{\mathcal{O}} \quad \square \quad \square \tilde{\mathcal{O}} \quad k$$

"Output status of the telegram "0"

$\square \square \tilde{O}$ $\square$ $\square$ $\square$ $\square \tilde{O}$ $\square$ $\square$ $\square$ $\square$

k $\square \square$

None

Contact close

Contact open

"Output status of the telegram "1""

□ □ Õ □ □ □ □ Õ □ □ □ □

k □ □

Contact open

Contact close

$\square \tilde{\mathcal{O}}$ $\square \square$ $\square \square \tilde{\mathcal{O}}$ $\square \tilde{\mathcal{O}}$
 $\square \square$ $\square$ k
 $\square \tilde{\mathcal{O}}$ $\square \square$ $\square \square \tilde{\mathcal{O}}$ $\square \tilde{\mathcal{O}}$
 $\square \square$ $\square$ $\square \square \tilde{\mathcal{O}}$ $\square$ $\tilde{\mathcal{O}}$ k

"Preset can be changed via bus"

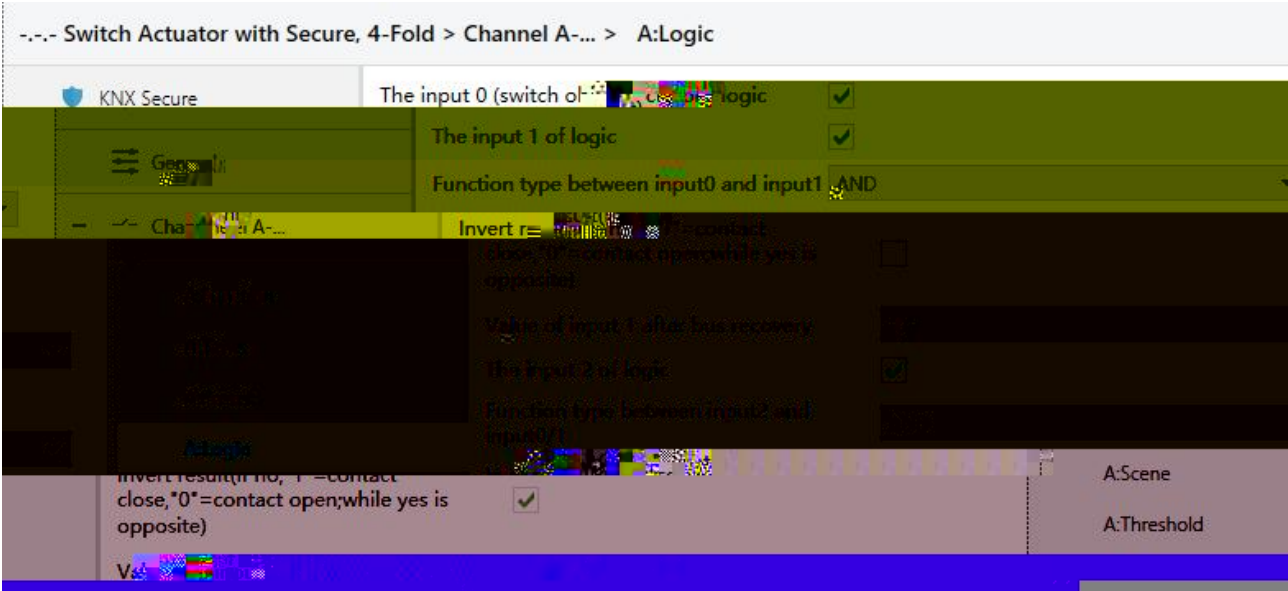
[illegible]

4.4.3. Õ □ “X: Logic”

Õ □

□

□ □ Õ □ k



□ Õ □

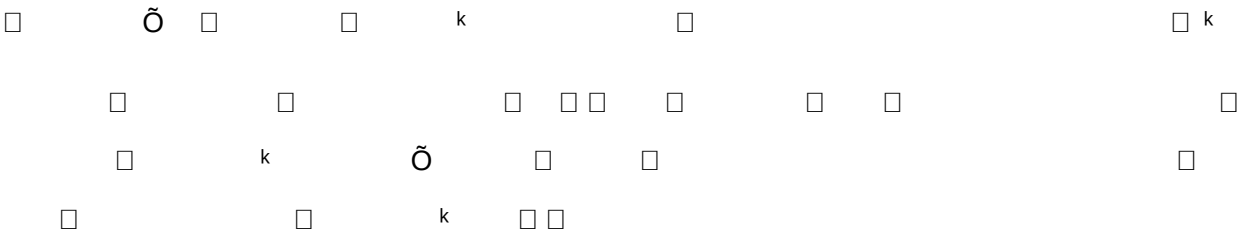
□ □ □ □ □ □ □ □ □ □ □ □ □

□ k

□ □ □ □ □ □ □ □ □ □

"Function type between input0 and input1"

"Function type between input2 and input0/1"



AND

OR

XOR

GATE





4.4.4. Õ □ “X: Scene”

Õ □

□

□ Õ □ k

Switch Actuator with Secure, 4-Fold > Channel A-...

KNX Secure

General

Channel A-...

A:Function

A:Time

Overwrite scene stored values during download

1> channel is assigned to (1..64,0=no allocation)

--Output status is

2> channel is assigned to (1..64,0=no allocation)

--Output status is

☒

0

☒ Contact open ☐ Contact close

0

☒ Contact open ☐ Contact close

Channel B-...

Channel C-...

Channel D-...

5> channel is assigned to (1..64,0=no allocation)

--Output status is

6> channel is assigned to (1..64,0=no allocation)

--Output status is

7> channel is assigned to (1..64,0=no allocation)

--Output status is

☒ Contact open ☐ Contact close

0

☒ Contact open ☐ Contact close

0

☒ Contact open ☐ Contact close

0

☐ Overwrite scene stored values during download ☐

□ Õ □ □ □ □ k

□ □ □ □ □ □ Õ □ □ □ □ □

□ □ k

□ □ □ □ □ □ Õ □ □ □ □ Õ

□ □ k

"x> channel is assigned to (1...64 scene NO.,0= no allocation)" (x=1~8)

□ □ □ k □ Ő k

□ □ 1... 64 □ 0=no allocation

□ Ő □ 1~64 k □ 0..63 k □
□ k

"--Output status is:"

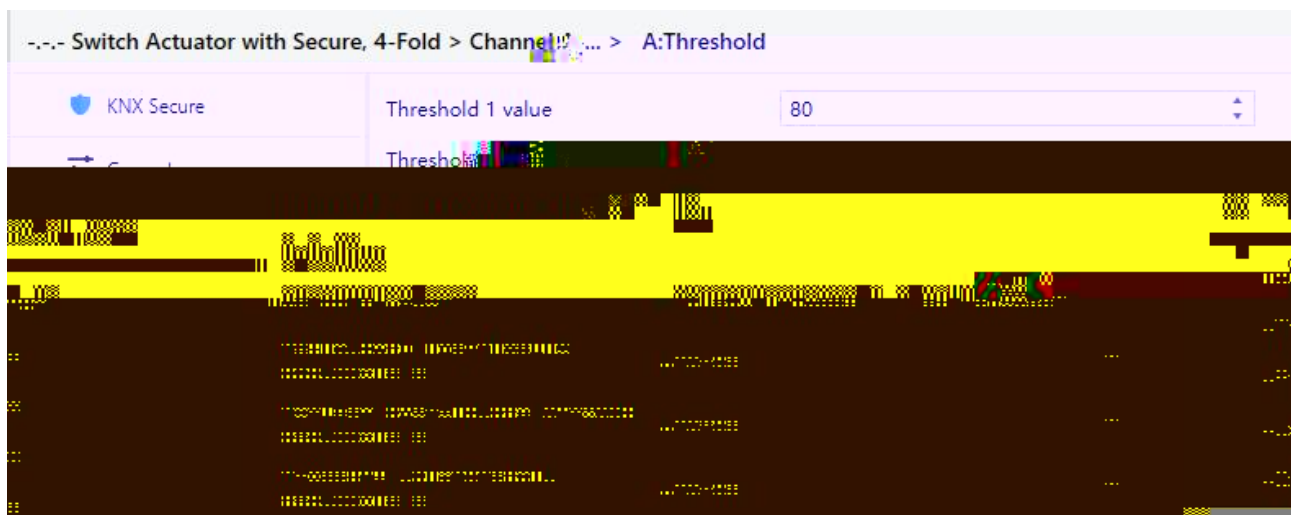
□ Ő □ □ k □ □

Contact open
Contact close

4.4.5. Ő □ "X: Threshold"

Ő □ □

□ □ Ő □ k



□ Ő □

□ □ □ □ □ □ k

□ □ □ Ő □ □ □ □ k

□ k □ □ □ □ Ő k

"Threshold 1 value"

"Threshold 2 value"

□ □ □ Ů k □ □ 0...255

□ Ů □ □ 1<□ 2□ □ □ETS □ Ů □ □

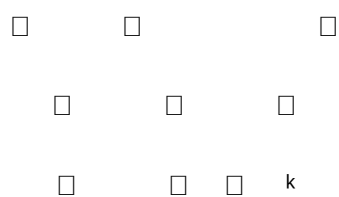
□ □

Threshold 1 value	<div>205</div>
Threshold 2 value	<div>200</div>

"Threshold 1 can be changed via bus"

Ů □ □ □ k

□ □ □ □ □ □ □ □





☐ output status if forced operation*

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Unchange

Contact open

Contact close

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4.5. ☐ “Channel X” – Heating actuator

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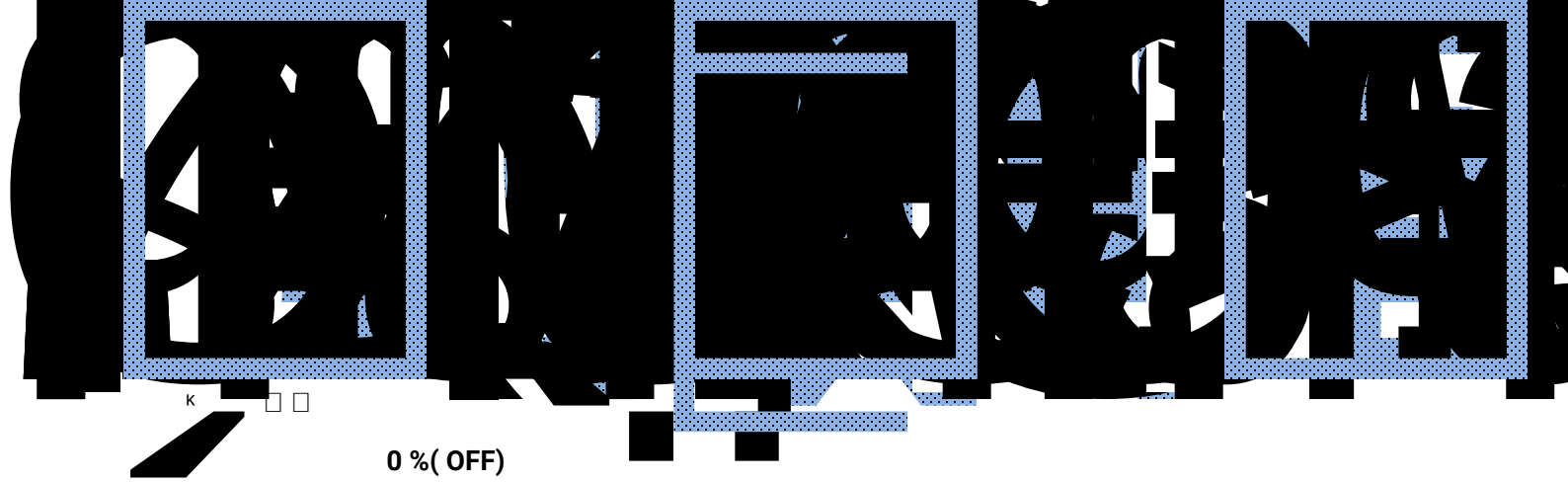
☐

☐

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☐

Ö



K

□ □

0 % (OFF)

10 % (26)

...

□ □ □ □ □

100 % (ON) % it 310 6D it Q, ^ 00

(l ; " □

□ □ 4

□

□ □ □

□ □

□

k

contin

"Reply the status

4.5.1. Ö □ “X: Monitoring”



Switch Actuator with Secure, 4-Fold > Channel A-... > A:Monitor

KNX Secure

Cyclic monitoring control

--in minutes (0...240 min)

60

General

--in seconds (0...59 seconds)

0

Channel A-...

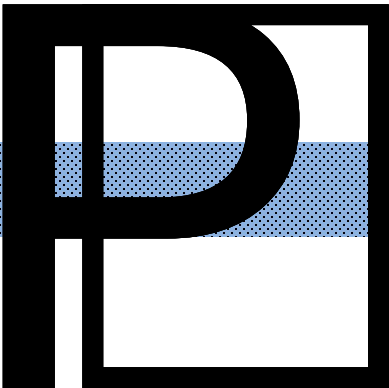
Valve position during fault

10%(26)

A:Function

Report fault status

☒



□ □ □

k

“Report fault status”

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□

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k

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□ □

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100 % (ON)

Unchange

□ □ □ □ k
□ □ □ □ Ū k □ □ □
□ □ □ □ Ū □ □ k
□ □ monitor □ □ □ □ □ □ □ □
□ □ □ □ k □ □ □

□ □ □ □ □ □

Settings of security parameter-window "General"

Valve position during security 1 operation: Unchange

Valve position during security 2 operation: Unchange

Channel A...

k

10

$$\tilde{O} \quad \square \quad \square \quad k$$

1

☐

1

10/10

11/11/2019

1

Ö

k

1

 $\square$ k

"Valve position during safety x operation" (x=1,2)

$$\tilde{O} \quad \square \quad \square \square \quad \square \square \square \quad \square \square \quad k \quad \square$$

□ □ □ □ □ □

☐ k ☐ ☐

0 % (OFF)

10 %(26)

...

90 %(230)

100 % (ON)

Unchange

□ □ □ □ k

333

 $\hat{U}$

k

1

11

333

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10

k

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□ □ □ □ k

□ □ □C□ □ □ □ □ □ □ □

□W□ □ □ □ □ □R□ □ □ □ □ □ □

□T□ □ □ □ □ □U□ □ □ □ □ □ k

5.1. "General" □ □

□ □ □ □ □ □ □ □

5.2. “Switch actuator” □ □ □

5.2.1. “Switch actuator” □ □

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
4	Output A-...	Switch status			1 bit	C	R	-	T	-	switch	Low
5	Output	Switch			1 bit	C	-	W	-	-	switch	Low

□ □ □

□

□ □

4 Switch status Output A-{{...}} 1bit C,R,T 1.001 switch

□ □ □

□

k □ □ □ □

Ö □ □ □ □

k

□

□

□ □ □

k k

5 Switch Output A-{{...}} 1bit C,W 1.001 switch

□ □ □ □

□ □ □

□

□ □

5.2.3. “Switch actuator” □ Ő □ □ □

10	Output A-...	Recall preset	1 bit	C - W - -	scene	Low
11	Output A-...	Store preset	1 bit	C - W - -	scene	Low

□ □ Ő □ □ □

	□	□ □			
10	Recall preset	Output A-{{...}}	1bit	C,W	1.022 scene
□ □ □ □ Ő □ Ő □ □ □ □ Ő □ □ □ Ő k					
11	Store preset	Output A-{{...}}	1bit	C,W	1.022 scene
□ □ □ □ Ő □ □ □ □ Ő □ □ □ Ő k					

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5.2.4. “Switch actuator” □ □ □ □

12	Output A-...	Input 1 of logic	1 bit	C - W - -	boolean	Low
13	Output A-...	Input 2 of logic	1 bit	C - W - -	boolean	Low

□ □ □ □ □

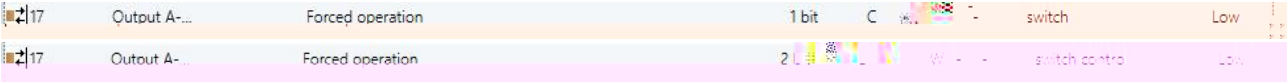
	□	□ □			
12	Input 1 of logic	Output A-{{...}}	1bit	C,W	1.002 boolean
□ □ □ □ □ k					
13	Input 2 of logic	Output A-{{...}}	1bit	C,W	1.002 boolean
□ □ □ □ □ k					

□ □ □ □ □ □

5.2.5. "Switch actuator" □ □ □

14	Output A-...	Scene	1 by	11	W	-	scene control	Low
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5.2.7. "Switch actuator" □ □ □ □



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17	Forced operation	Output A-{{...}}	1bit	C,W 1.003 enable
□ □ □ □ □ □ □ □ □ k □ □ □ Œ				
æ □ □ □ □ k				
17	Forced operation	Output A-{{...}}	2bit	C,W 2.001 switch control
□ □ □ □ □ □ □ □ k □ □				
□ □ Œ æ □ □ k				

5.3. “Heating actuator” □ □ □

5.3.1. “Heating actuator” □ □

Number	Name	Object	Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
4	Output A-...		Switch status			1 bit	C	R	-	T	-	switch	Low
5	Output A-...		On-Off			1 bit	C	-	W	-	-	switch	Low
6	Status (continuous), 1 bit					1 bit	C	R	-	T	-		
14	Output A-...		Status (continuous), 1 byte			1 byte	C	R	-	T	-	percentage (0..100%)	Low
15	Output A-...		Continuous control			1 byte	C	-	W	-	-	percentage (0..100%)	Low

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□ □

15 Continuous control Output A-{{...}} 1Byte C,W 5.001 percentage

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□ k □ □ □ □ □ □ □ □ □ □ k

5 On-Off Output A-{{...}} 1bit C,W 1.001 switch

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k □ □ □ □ □ □ k

14 Status (continuous), 1 byte Output A-{{...}} 1Byte C,R,T 5.001 percentage

□ □ □ □ □ □ □

□ k □ □ □ □ □ □ □ □ Œ k

6 Status (continuous), 1 bit Output A-{{...}} 1bit C,R,T 1.001 switch

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□ k □ □ □ □ □ k

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□ □ □ □ □ □ □ k

4 Switch status Output A-{{...}} 1bit C,R,T 1.001 switch

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