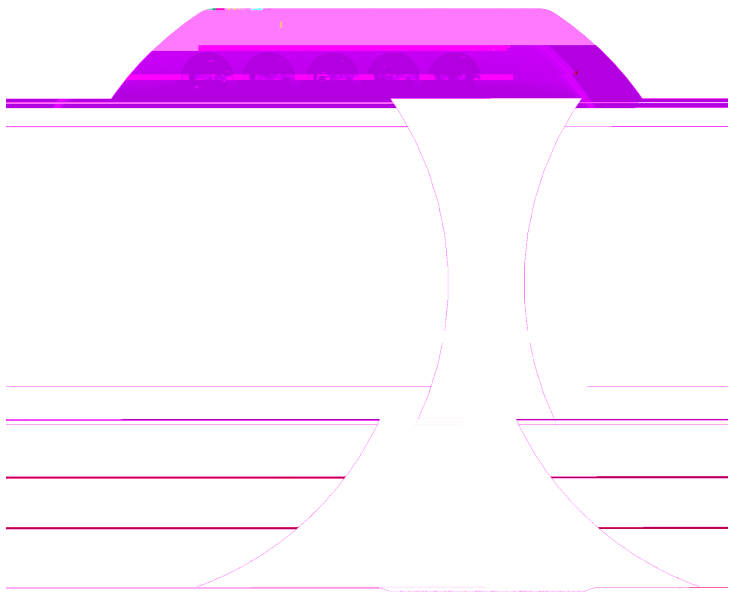
K-BUS 3

A , 3- , 6A, 1.4

A A -03/06.1



/ B

L

注意事项

1、请远离强磁场、高温、潮湿等环境；

4、请勿自行拆卸本设备。

---------- 1

---------- 5

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3.1. ---------- 7

3.2. ---------- 8

---------- 9

4.1. ---------- 9

4.2. C ---------- 11

4.3. -- ---------- 14

4.3.1 ---------- 14

4.3.2 : ---------- 18

4.3.2.1 ---------- 19

4.3.2.2 ---------- 20

4.3.2.3 ---------- 22

4.3.3 : ---------- 24

4.3.4 : ---------- 27

4.3.5 : ---------- 28

4.3.6 : ---------- 30

4.4. -- ( ) ---------- 31

4.5. ---------- 37

4.5.1 C : B ----------& ---------- 37

4.5.1.1 C : ---------- 41

4.5.1.2 C : A . ---------- 44

4.5.1.3 C : ---------- 48

4.5.1.4 C : ---------- 49

4.5.2 C : ---------- 51

4.6. ---------- 52

4.6.1 : /C ----------& ---------- 55

4.6.1.1 2 - / ---------- 57

4.6.1.1 C , ---- 60
4.6.1.2 3 , ---- 62
4.7. -- ---- 68
4.7.1 -- ---- 68
4.7.1.1 : A . ---- 72
4.7.1.2 : ---- 76
4.7.2 -- - ---- 78
4.7.2.1 : A . ---- 86
4.7.2.2 : ---- 91
4.8. C ---- 93
4.9. ---- 95
4.9.1 ---- 95
4.9.2 D ---- 98
4.9.3 ---- & ---- 100
4.9.4 . ---- 102
4.9.5 B ---- 103
4.9.6 ---- 105
4.9.7 ---- [redacted] 107
4.9.8 D ---- 110
4.10. D ---- 112
---- 115
5.1. ---- 2. ---- 115
5.1.1 --

k

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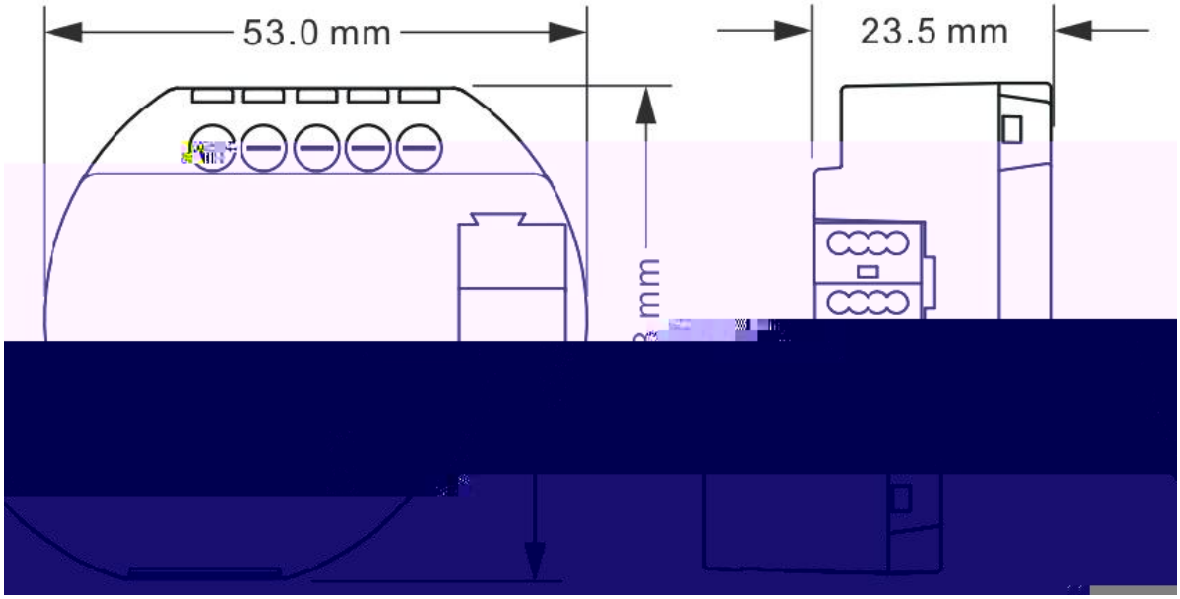
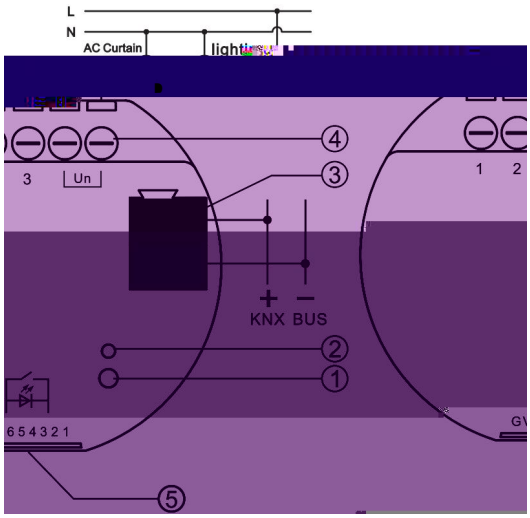
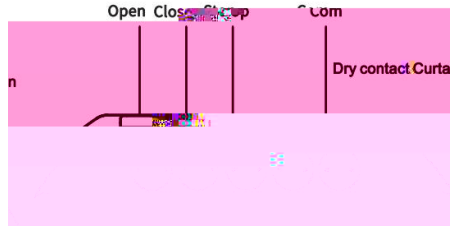
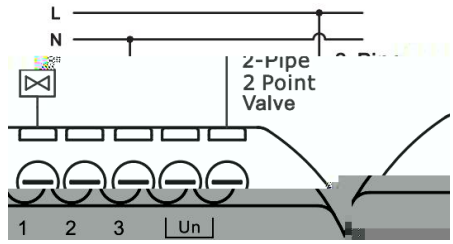
3.1.

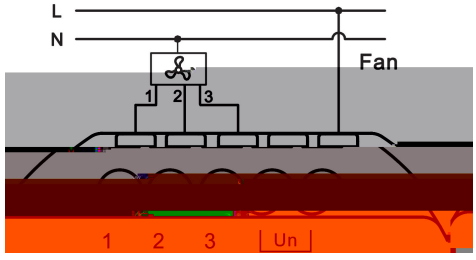


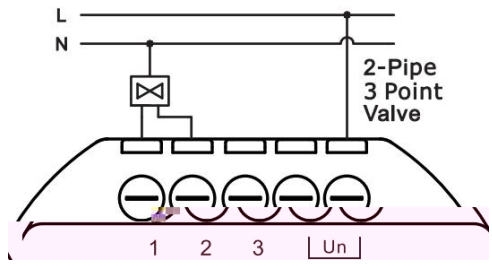
3.2.

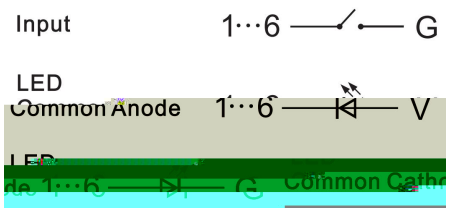

L
N
AC Curtain
3
Un
4
3
1 2
KNX BUS
2
1
654321
5

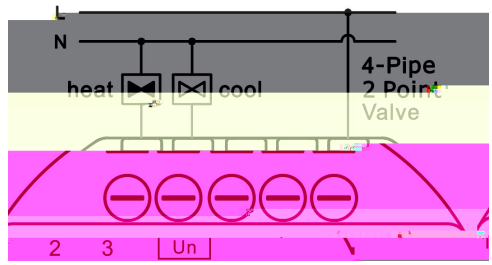

Open
Com
Dry contact Curta


L
N
2-Pipe
2 Point
Valve
1 2 3
Un


L
N
Fan
1 2 3
1 2 3
Un


L
N
2-Pipe
3 Point
Valve
1 2 3
Un

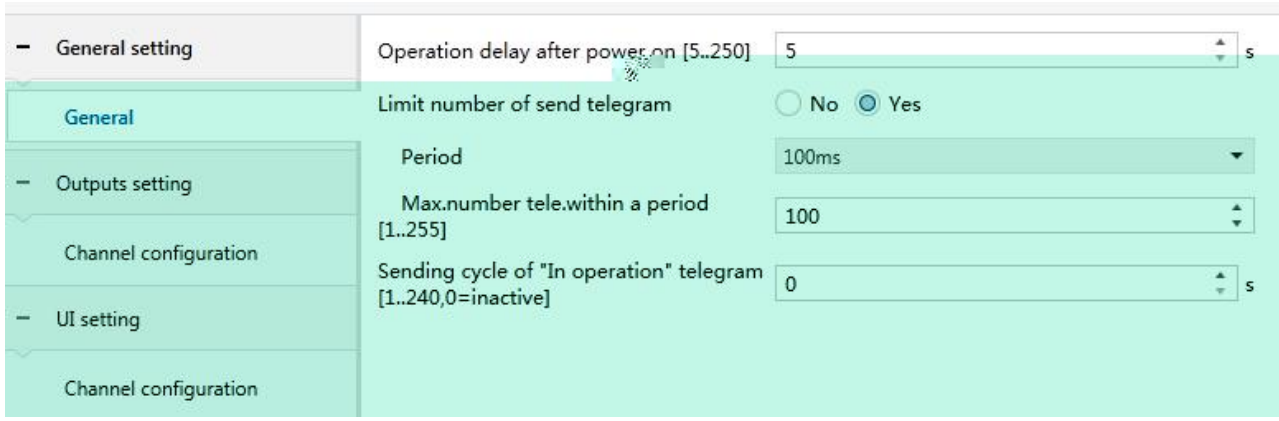

Input
1···6
G
LED
Common Anode
1···6
V


L
N
heat
cool
4-Pipe
2 Point
Valve
2 3
Un

k

4.1.

k



5 250

k

k k

k k

k

k

k

k

k

100

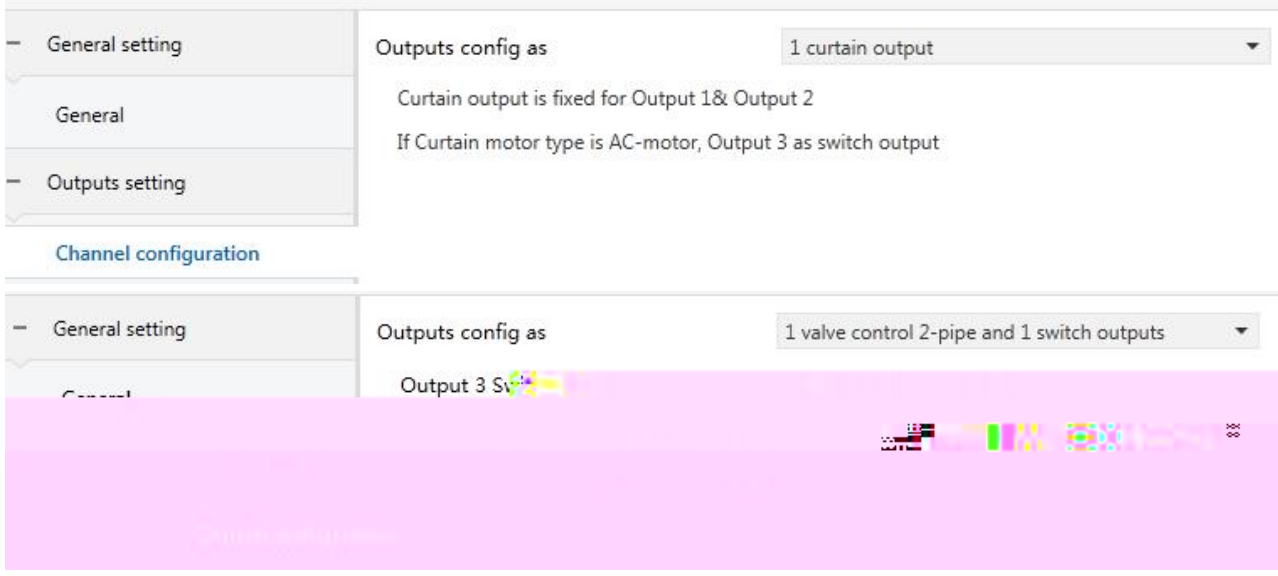
500

10

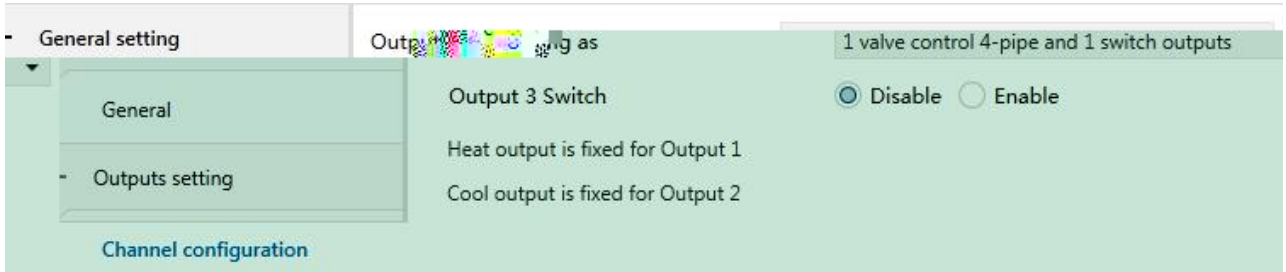
4.2. C

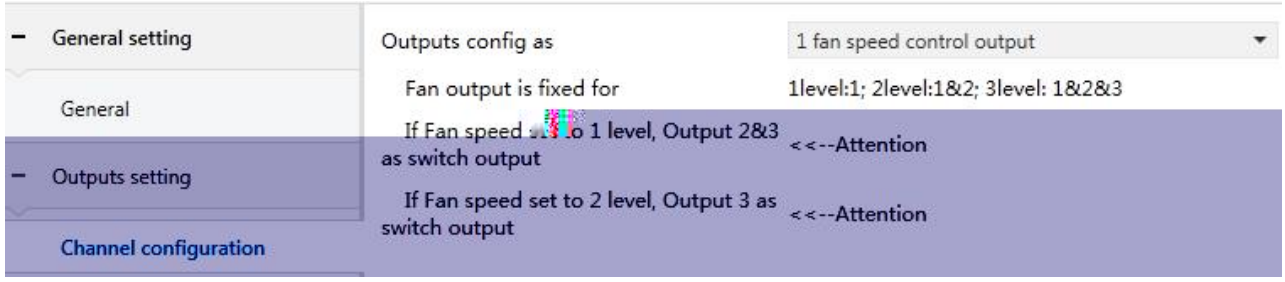
k

k


General setting
General
Outputs setting
Channel configuration
Outputs config as
1 curtain output
Curtain output is fixed for Output 1& Output 2
If Curtain motor type is AC-motor, Output 3 as switch output

General setting
Outputs config as
1 valve control 2-pipe and 1 switch outputs


General setting
General
Outputs setting
Channel configuration
Output 3 Switch
Disable
Enable
Heat output is fixed for Output 1
Cool output is fixed for Output 2


General setting
General
Outputs setting
Channel configuration
Outputs config as
1 fan speed control output
Fan output is fixed for
1level:1; 2level:1&2; 3level: 1&2&3
<<--Attention
as switch output
If Fan speed set to 2 level, Output 3 as switch output
<<--Attention

k

3 3

1 1

1 *2-* *1* 1 2 1

1 *4-* *1* 1 4 1

1 1

		C	AC	/C	/2-	4-	
1	1	C	/C				1
2	2		1&2, 3 ;	, 2		C	2
3	3		2- 3	/	)	3	3

• • &1 / , 2

• • &1&2 3 ,

! k

k

• • 1

• • C 2

k

• • 1 :1; 2 :1&2; 3 :1&2&3

• • 1 , 2&3

• • 2 , 3

k

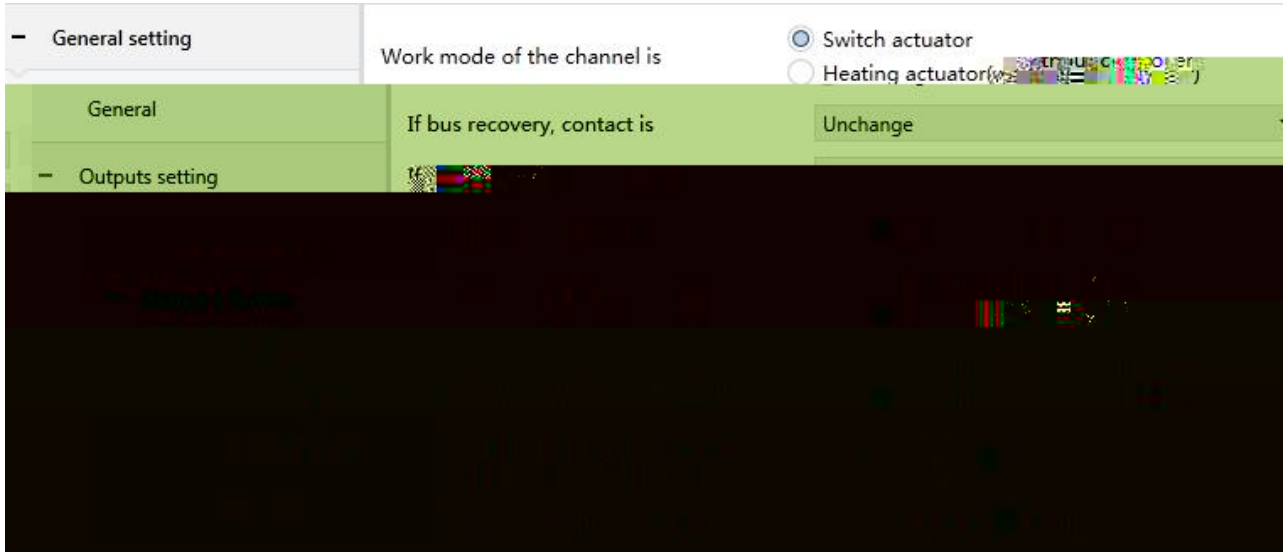
4.3. --

k

4.3.1

k

k



k

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A

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C

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A ’

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A

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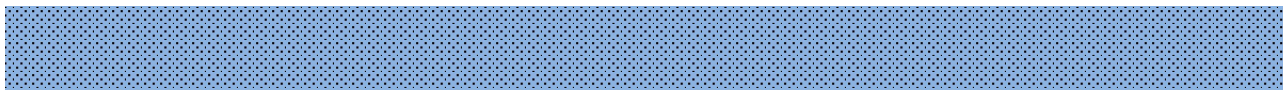
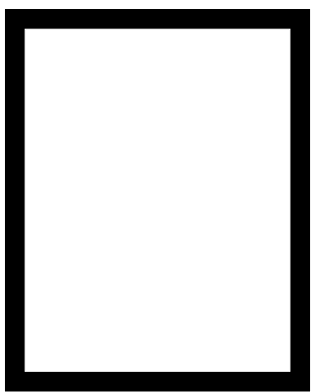
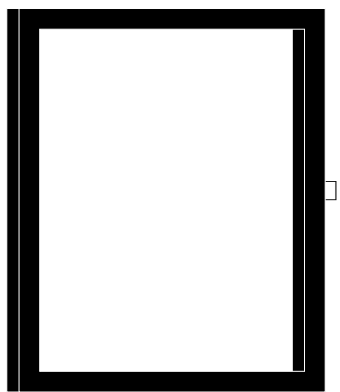
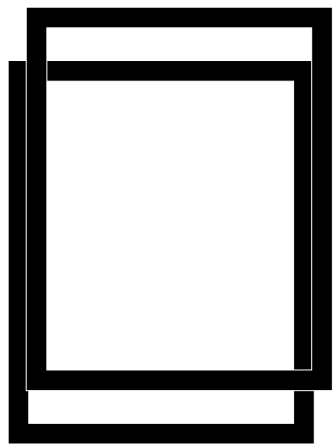
k

k







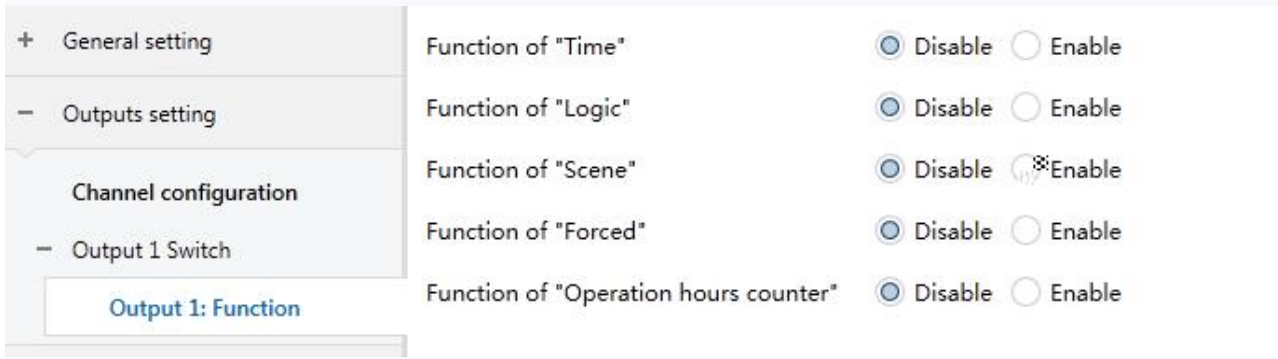


k

0 0 k

Enable

k



4.3.2 :

k k

General setting
Outputs setting
Type of time function
Delay
Delay for switch on: --[0..240]
0
min

k

4.3.2.1

Delay k

k

: (0...240)/ (0...59)

k

0 240

0 59

k

: (0...240) / (0...59)

k

0 240

0 59

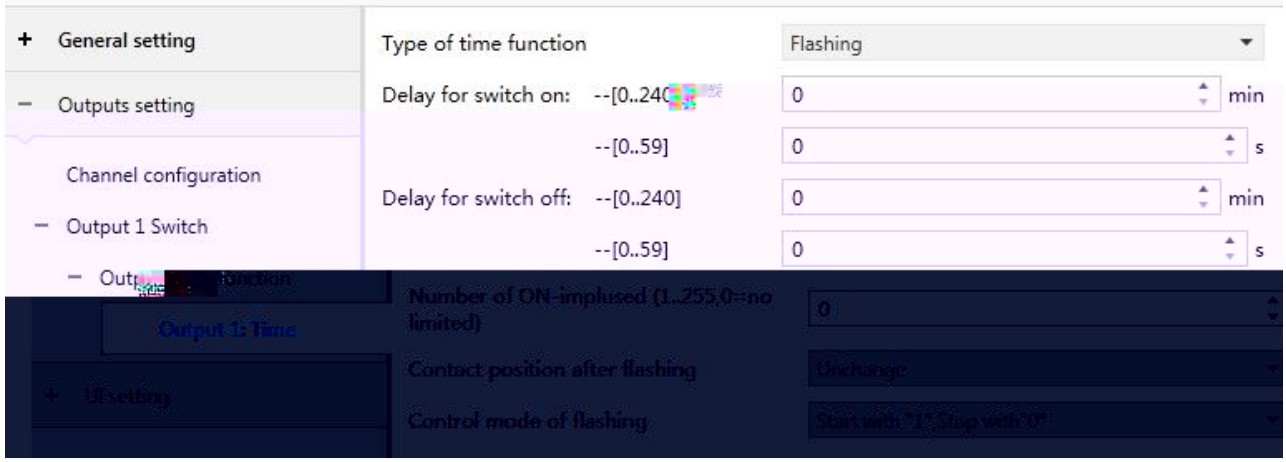
k

k

4.3.2.2

k

k



k

k

: (0...240) / (0...59)

k

k

k k

- (1...255 0=)

k k

0...255

C

k

C

C

k

1 , 0

0 , 1

0/1 ,

k

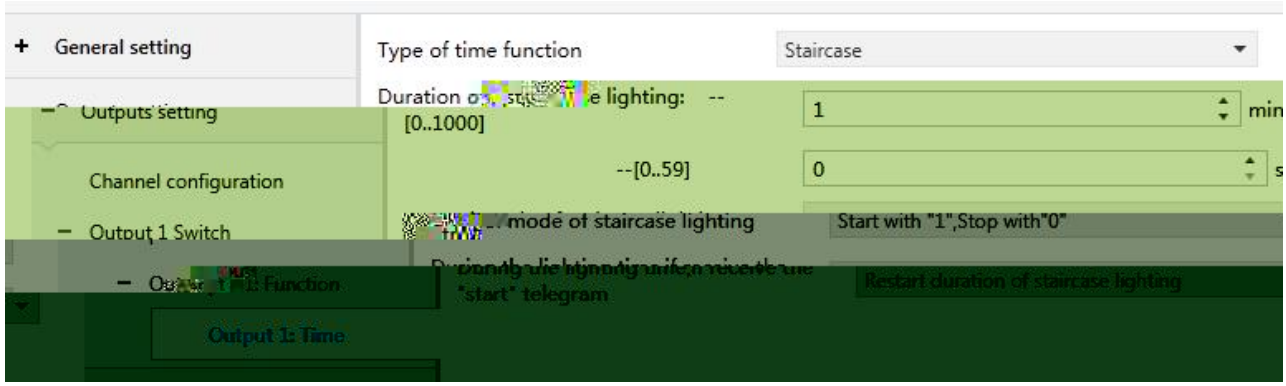
k

k

k

4.3.2.3

k



k

: (0...1000) /(0...59)

k

0 1000

0 59

k

1 0

1 0

0/1 ,

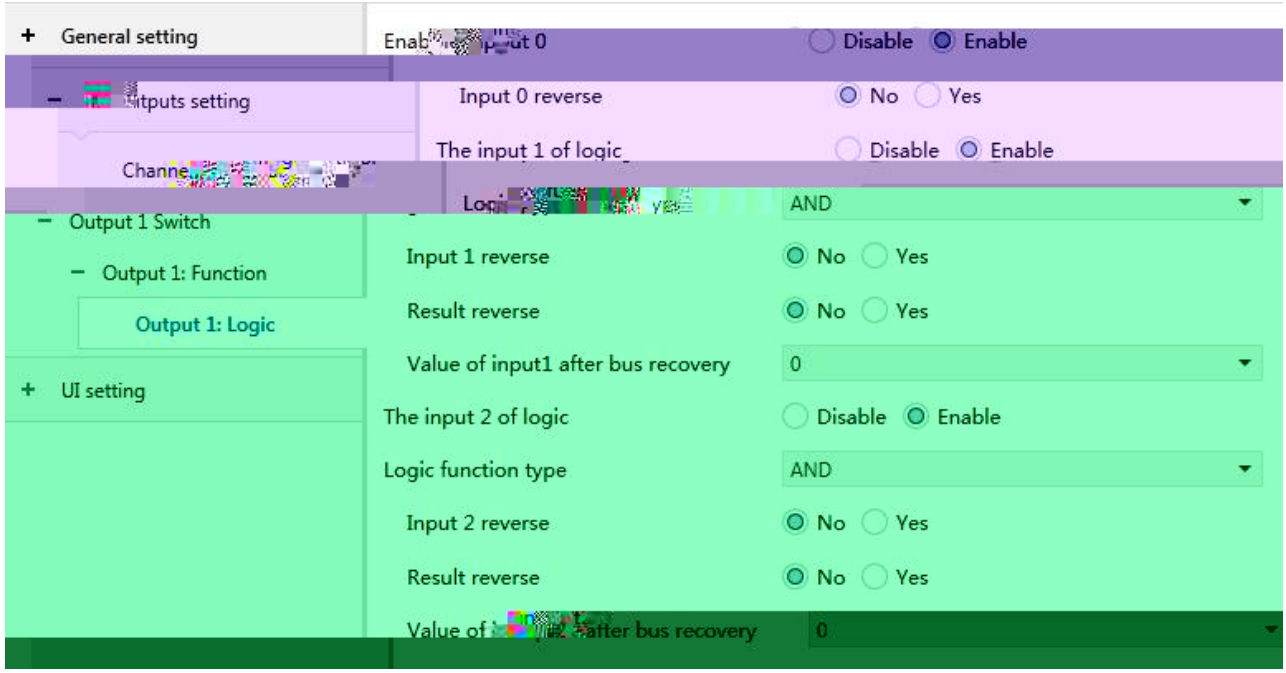
1 , 0

k

□ □ □

4.3.3 :

k



k

k

k

k

k

0

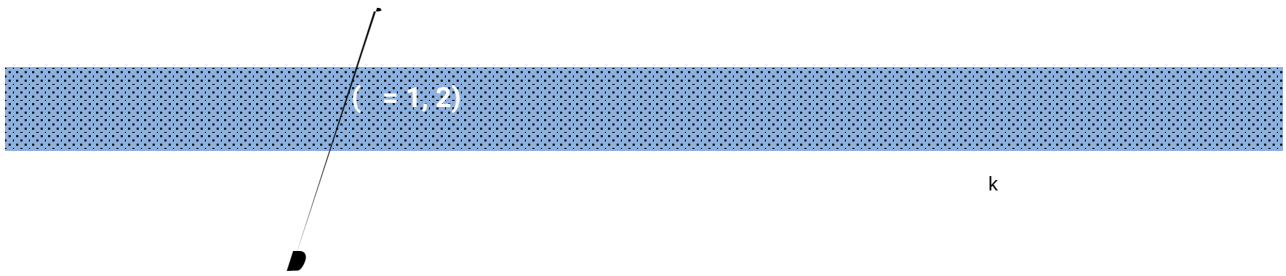
k

k

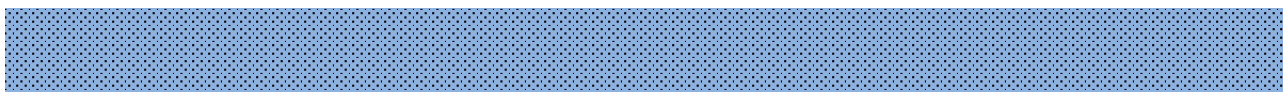
k

0/1/2

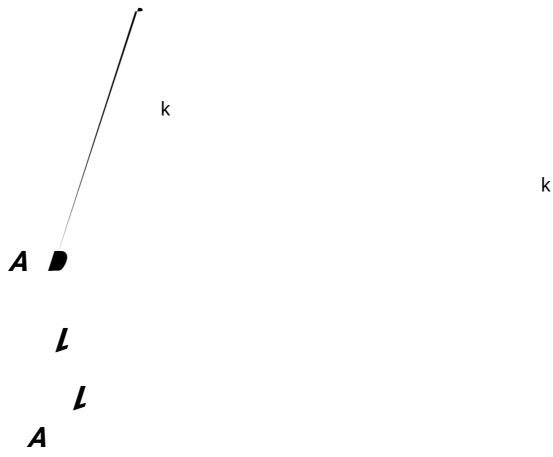
k



k



k k



						k
						k
						k

!

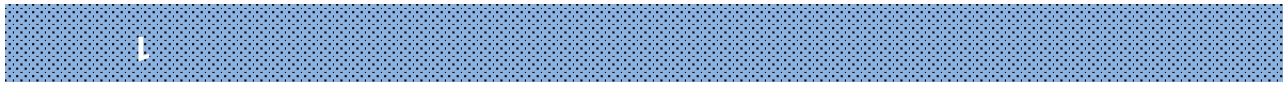
k

! k

! k

! k

k



k

k

k

1...64 ,0=

k k

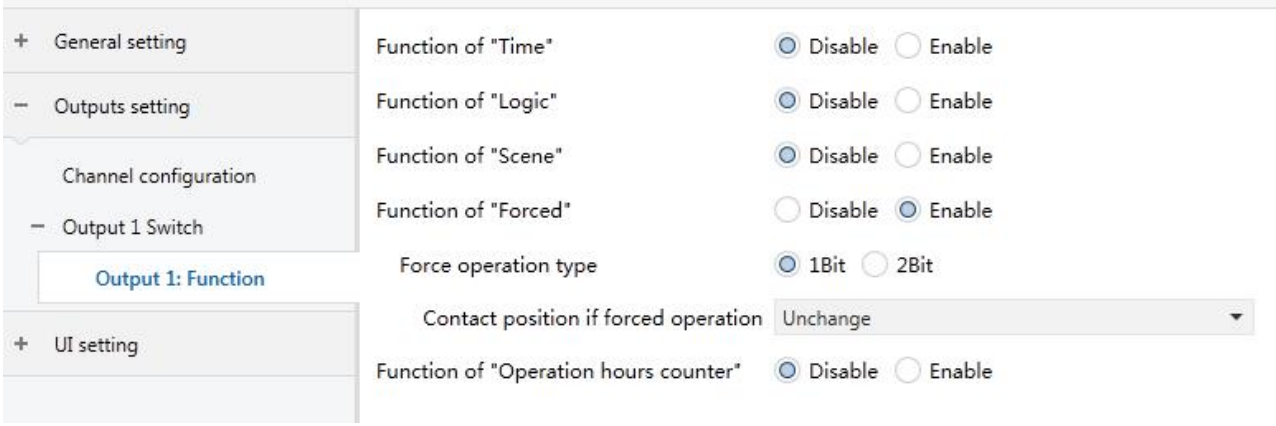
1... 64 0=

k

C

4.3.5 :

k



k

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1bit

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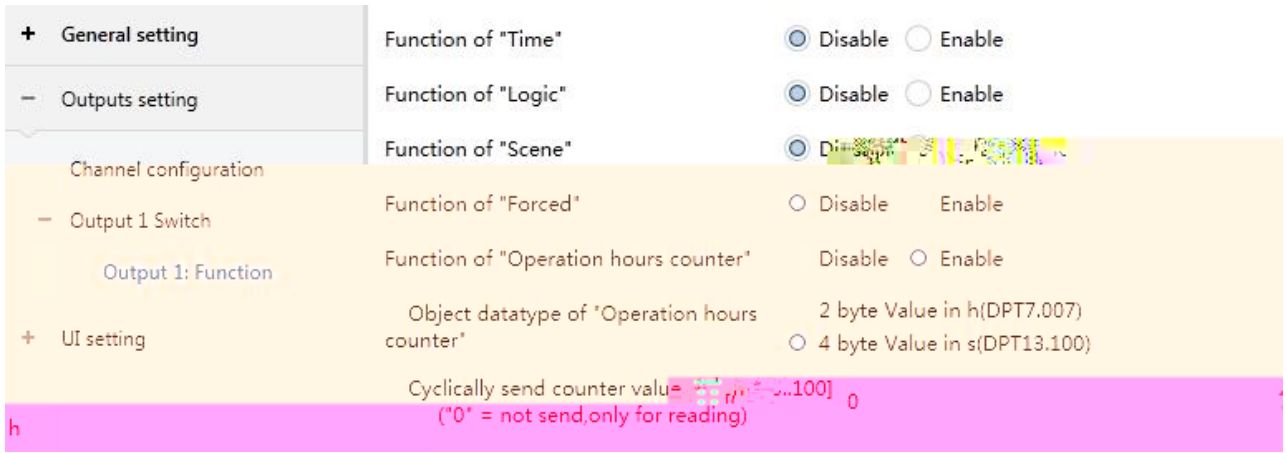
J^

4.3.6 **:**

k k



k

2 ***(D*** ***7.007)*** ***&***

4 ***(D*** ***13.100)*** ***&***

k

C **0..100** **(0=** **,** **)**

k **0-100**

k

k

4.4. -- ( )

k k

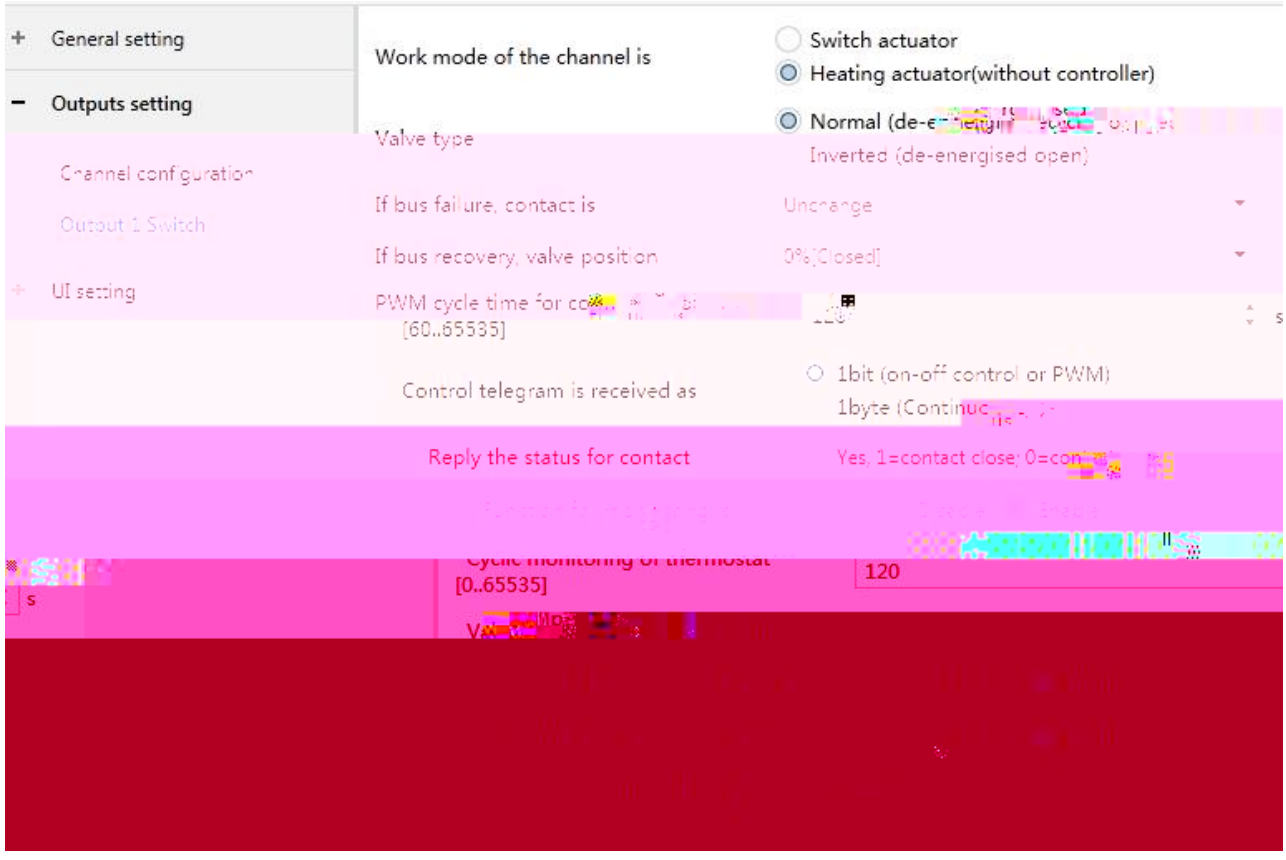
k

k

k

k

k


General setting
Outputs setting
Channel configuration
Output 1 Switch
UI setting
Work mode of the channel is
Switch actuator
Heating actuator(without controller)
Valve type
Normal (de-e
Inverted (de-energised open)
If bus failure, contact is
Unchange
If bus recovery, valve position
0%[Closed]
PWM cycle time for co
[60..65535]
Control telegram is received as
1bit (on-off control or PWM)
1byte (Continuc
Reply the status for contact
Yes, 1=contact close; 0=con
[0..65535]
120
s

General setting
Outputs setting
Channel configuration
Output 1 Switch
UI setting
Work mode of the channel is
Switch actuator
Valve type
Normal (de-energised closed)
Inverted (de-energised open)
If bus failure, contact is
Unchange
If bus recovery, valve position
0%[Closed]
PWM cycle time for continuous
120
Control telegram is received as
1bit (on-off control or PWM)
Reply the status for continuous control
No reply
Reply the status for contact
Yes, 1=contact close; 0=contact open
Function for monitoring is
Disable
Enable
120
[0..65535]
Valve position during fault
Unchange
Send object "Report fault" is
Disable
Enable

&

k

(-)

(-)

k

'

k

c

k

k

’

k

0% C

10% 26

20% 51

...

90% 230

100%

k

60..65535

k **60..65535**

k

1 **( )** **!**

k

C

k

1 (-)

1 (C)

k

k

k

k

k

k

k

-- C 0..65535

k

k k

k k 0..65535

k

k

-- &

k

0% C

10% 26

...

100%

k

--

k

k

k

k

k

-- &

k

0% C

10% 26

...

100%

k

k

k

k

k

k

k

4.5.

4.5.1 **C : B &**

k

1..50 *100

k

1..50

k

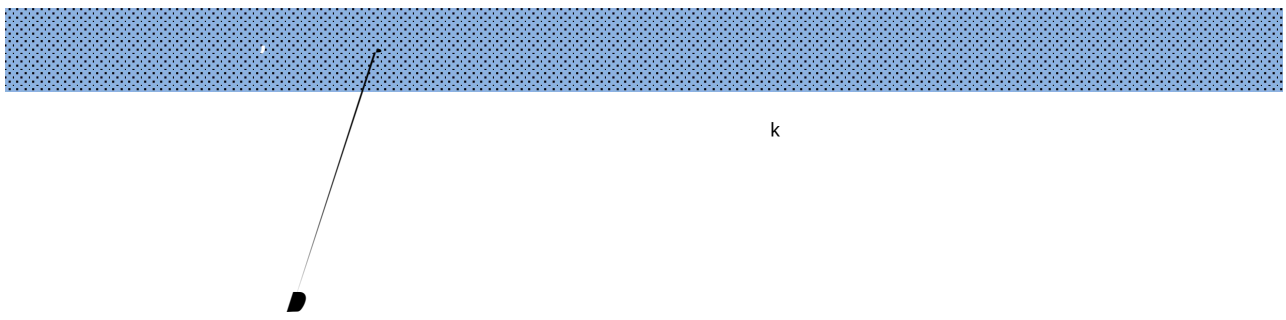
k

-

-

k

k



k

k

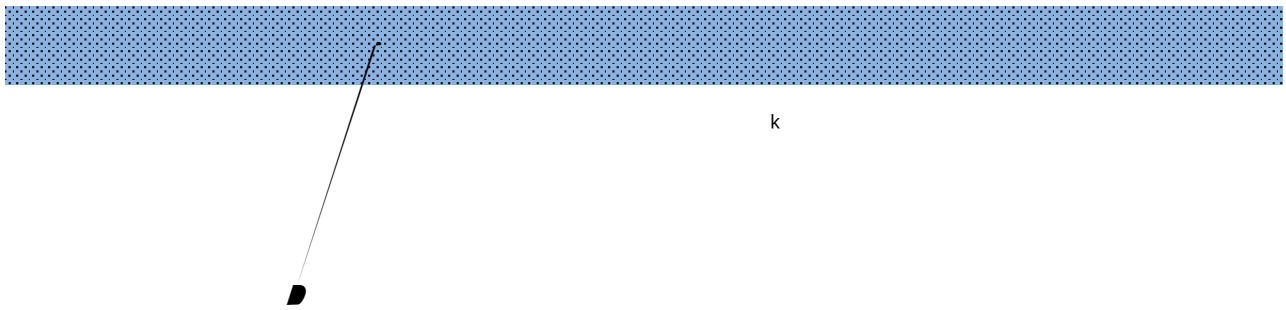
k

50%

k

k

k



k

k

k

k

A

k

k

k

k

k

k

k k

k k

k

0%/10%/ /90%/100%

40%"

k

k

k

k

k

k

L

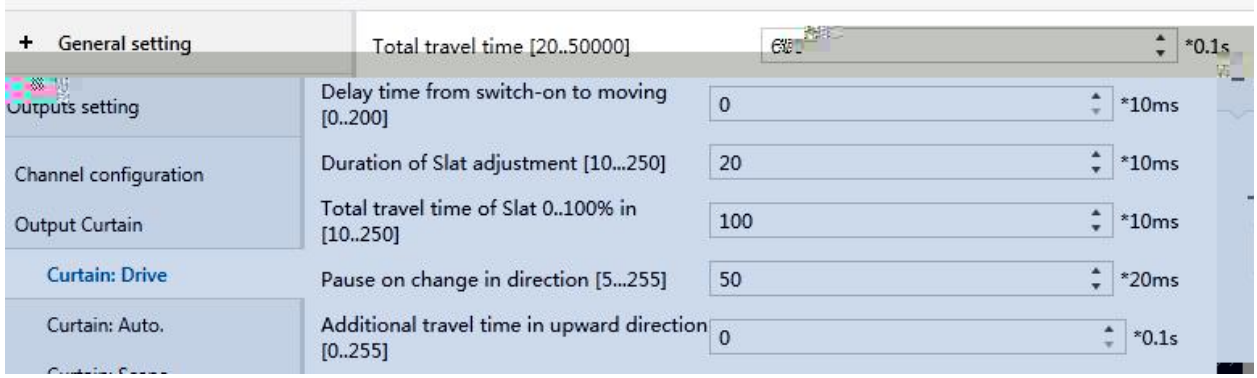
L

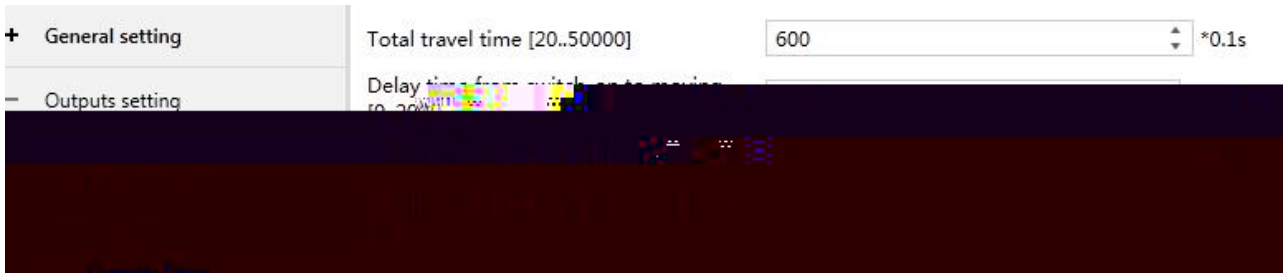
k

4.5.1.1 C :

k

k





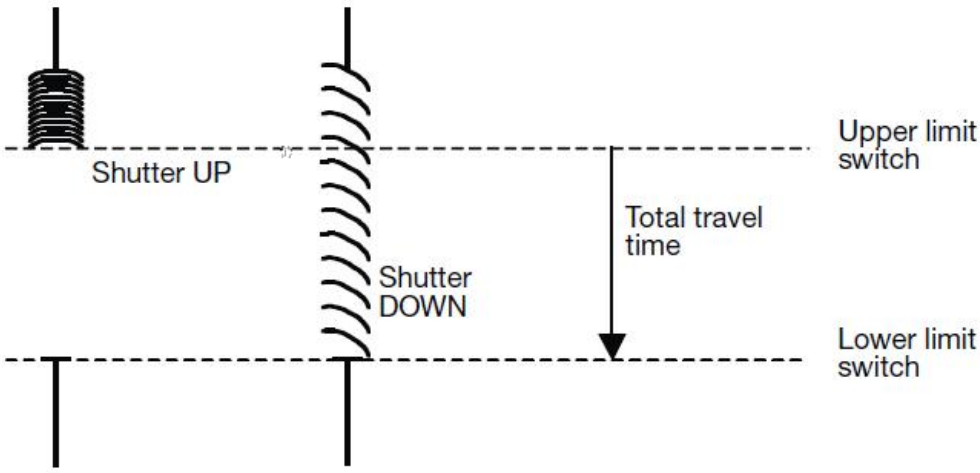
20 50000 *0.1

k

k

k

k



!

k

- 0..200 *10

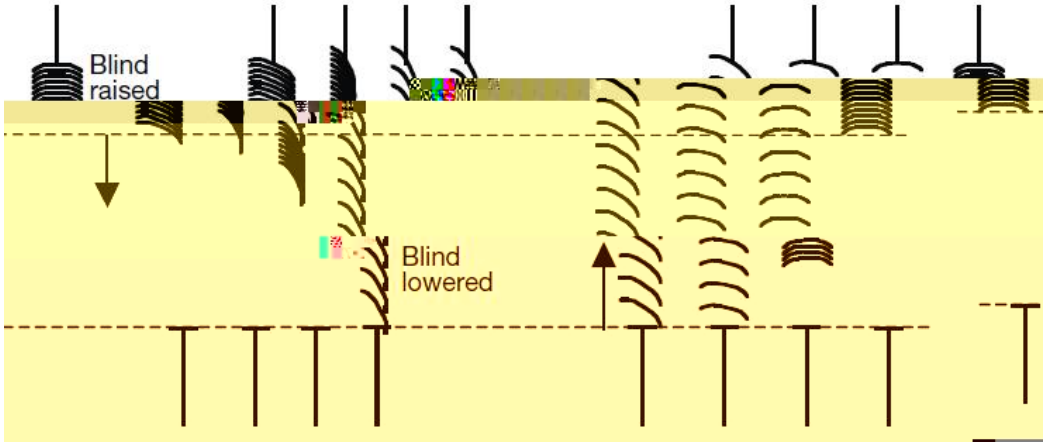
k **0..200**

k

10 250 *10

k

k k



0 100% 10 250 *10

k

! k

k

k

5 255 *20

k

k

k

A 0..255 *0.1

k

k

k

0% k

4.5.1.2 **C** **: A .**

GVS K-BUS

.

k

( )

1 (.)

“0”

“1” k

A .

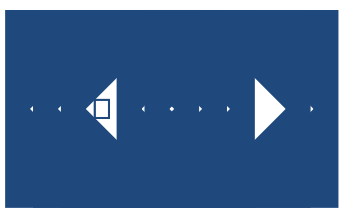
k

k

-- . 10、6000

k

k



k

k

-- = 1 0...65535

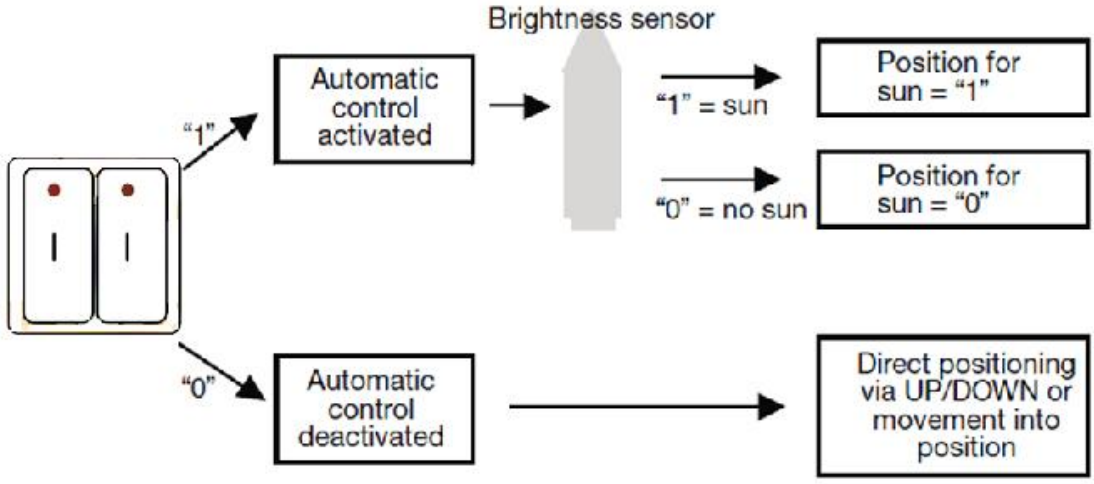
k *0 65535*

-- = 0 ( )

k

-- = 0 0...65535

k *0 65535*


Brightness sensor
"1"
Automatic control activated
"1" = sun
Position for sun = "1"
"0" = no sun
Position for sun = "0"
"0"
Automatic control deactivated
Direct positioning via UP/DOWN or movement into position

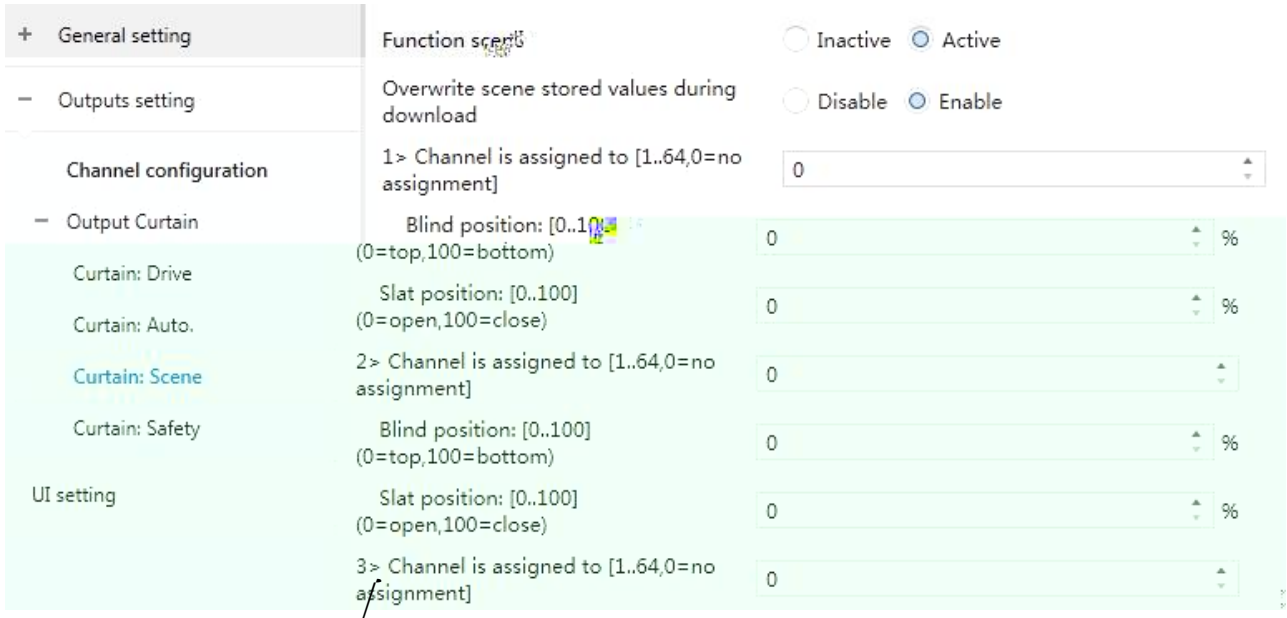
k

k

k

k

k


General setting
Outputs setting
Channel configuration
Output Curtain
Curtain: Drive
Curtain: Auto.
Curtain: Scene
Curtain: Safety
UI setting
Function scene
Inactive
Active
Overwrite scene stored values during download
Disable
Enable
1> Channel is assigned to [1..64,0=no assignment]
0
Blind position: [0..100] (0=top,100=bottom)
0
%
Slat position: [0..100] (0=open,100=close)
0
%
2> Channel is assigned to [1..64,0=no assignment]
0
Blind position: [0..100] (0=top,100=bottom)
0
%
Slat position: [0..100] (0=open,100=close)
0
%
3> Channel is assigned to [1..64,0=no assignment]
0

k

k

k

k

k

C

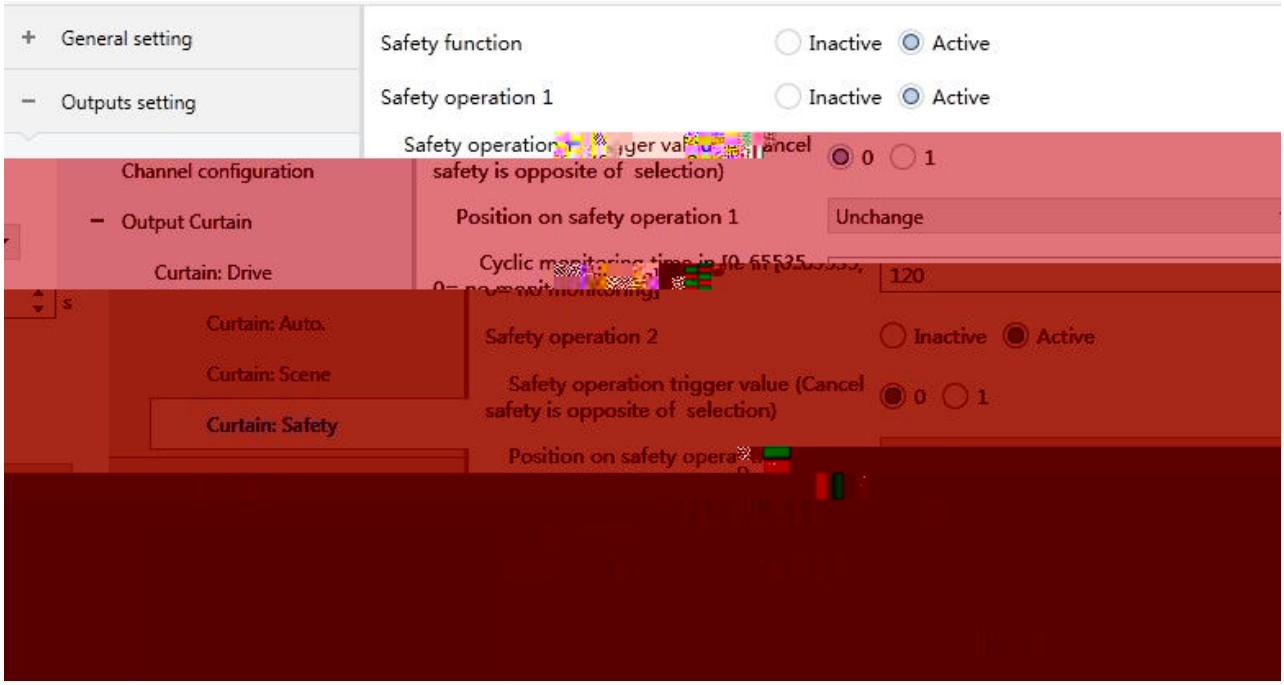
0 100% 0% , 100%=

-- : 0-100% (0%= ,100%=)

0 100% 0% , 100%=

4.5.1.4 C :

k



k

k

1/2

k

A

Inactive

Active

k

(C)

k

0

1

0

1

k

1/2

k

C 0..65535, 0=

k

k

k

k

k

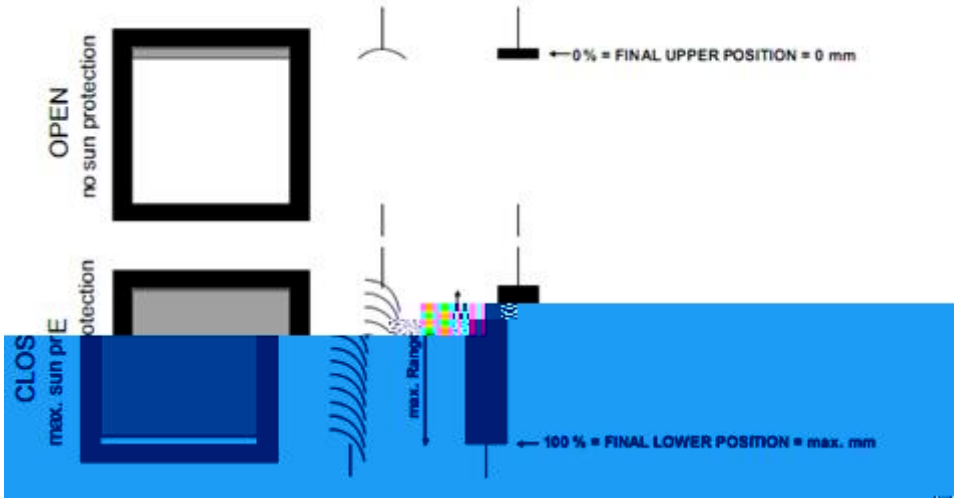
k

k

4.5.2 C :

k k

k



k

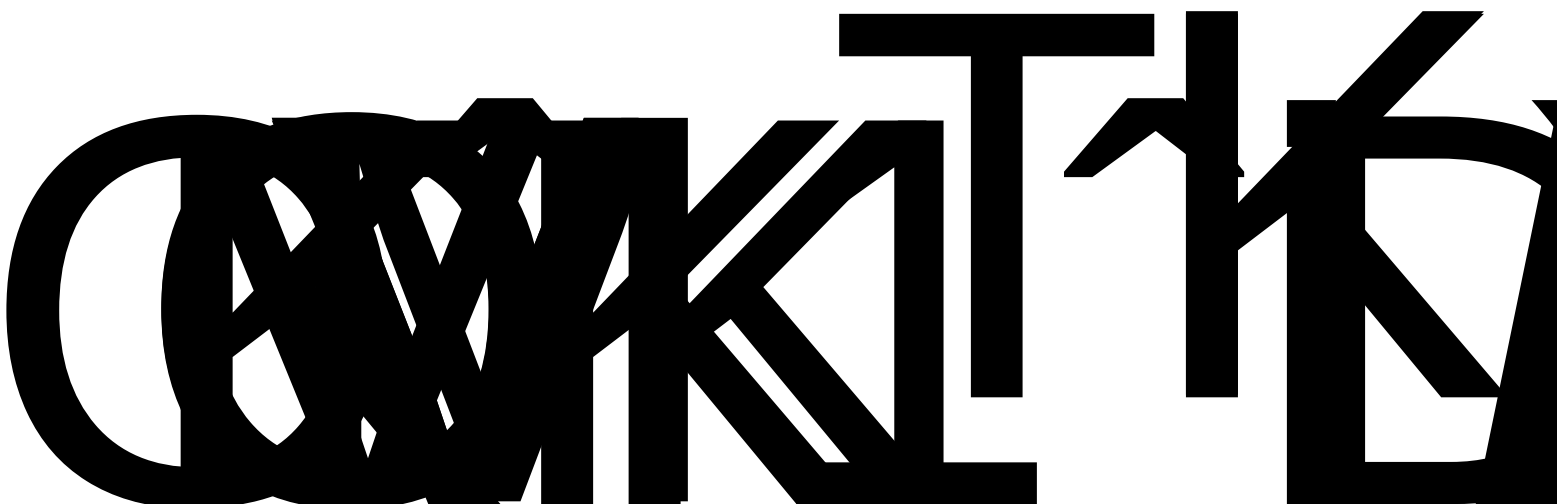
2 1

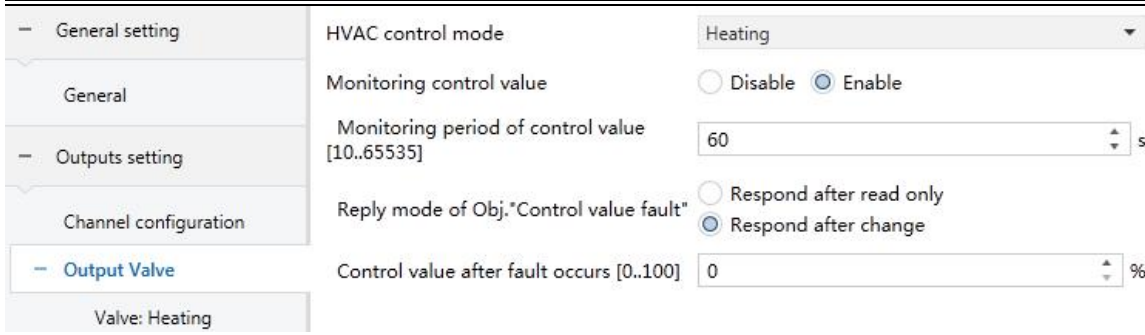
1 !

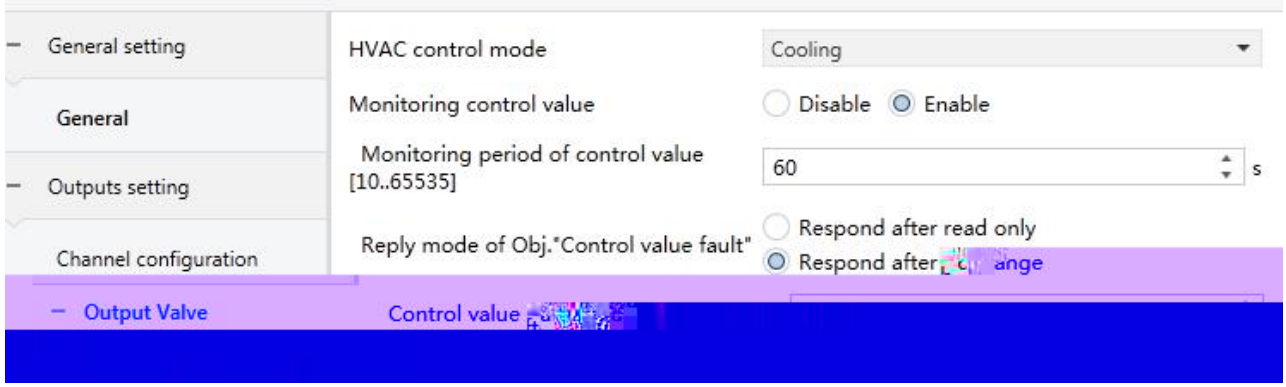
!

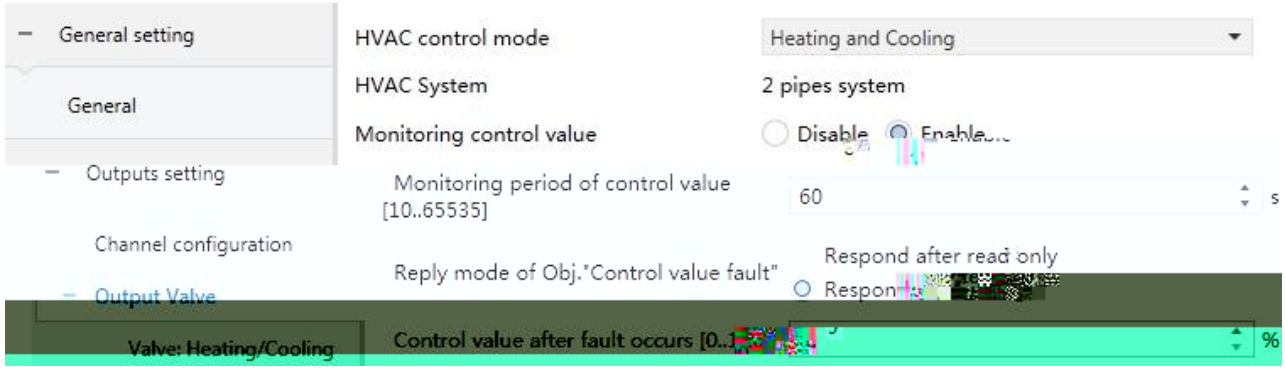
k

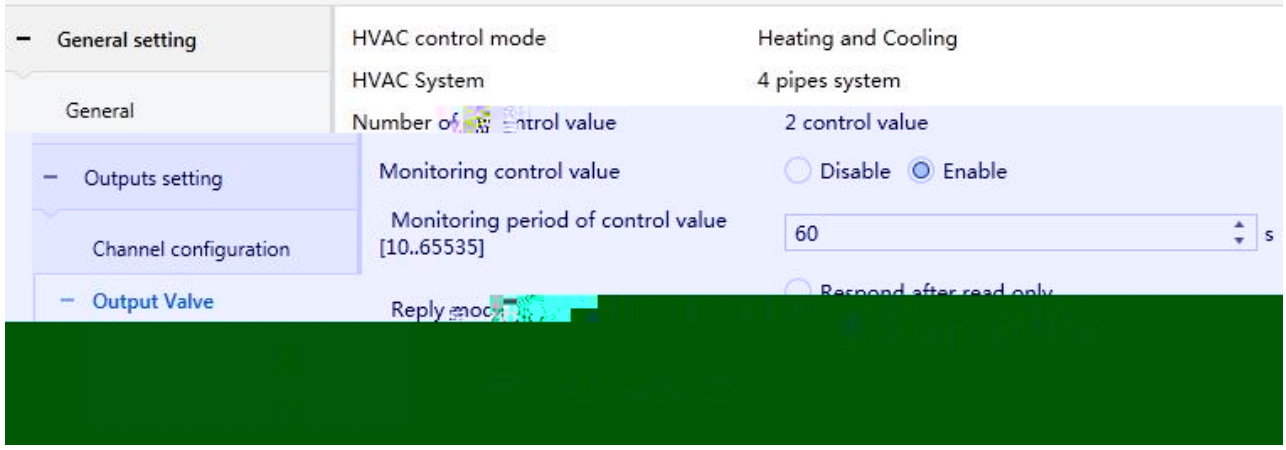
4.6.




General setting
General
Outputs setting
Channel configuration
Output Valve
Valve: Heating
HVAC control mode
Heating
Monitoring control value
Disable
Enable
Monitoring period of control value [10..65535]
60
s
Reply mode of Obj."Control value fault"
Respond after read only
Respond after change
Control value after fault occurs [0..100]
0
%


General setting
General
Outputs setting
Channel configuration
Output Valve
HVAC control mode
Cooling
Monitoring control value
Disable
Enable
Monitoring period of control value [10..65535]
60
s
Reply mode of Obj."Control value fault"
Respond after read only


General setting
General
Outputs setting
Channel configuration
Output Valve
Valve: Heating/Cooling
HVAC control mode
Heating and Cooling
HVAC System
2 pipes system
Monitoring control value
Disable
Monitoring period of control value [10..65535]
60
s
Reply mode of Obj."Control value fault"
Respond after read only
%


General setting
General
Outputs setting
Channel configuration
Output Valve
HVAC control mode
Heating and Cooling
HVAC System
4 pipes system
2 control value
Monitoring control value
Disable
Enable
Monitoring period of control value [10..65535]
60
s

AC C &

C

C

k

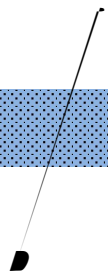
AC &

k

k

k

k



k

k

10..65535

k 10 65535

L . C

k

L

L

k

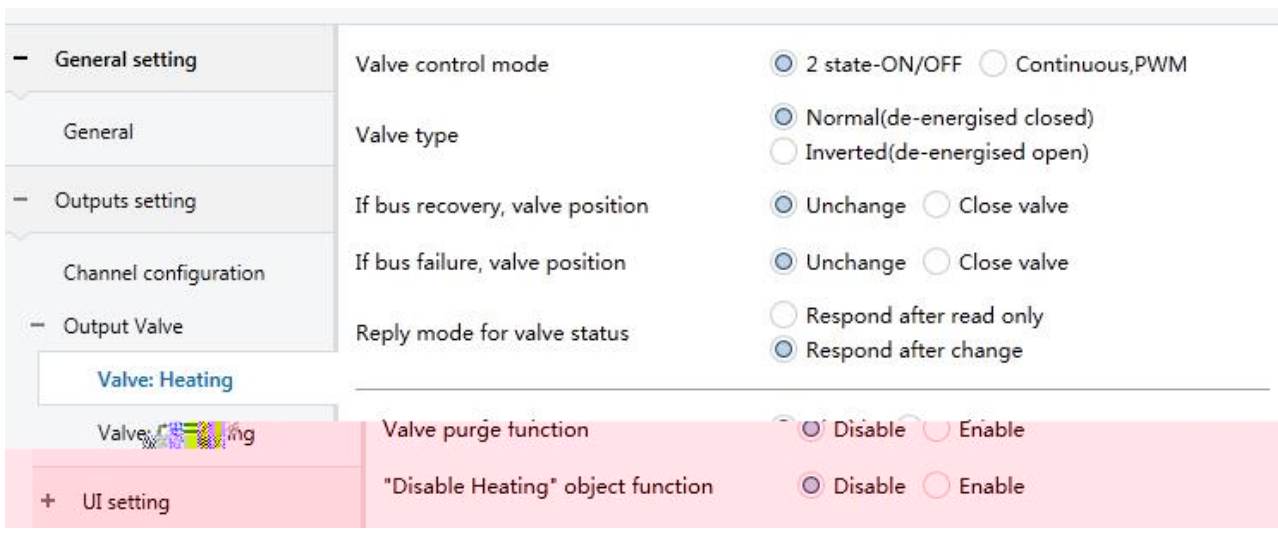
C	0..100 %

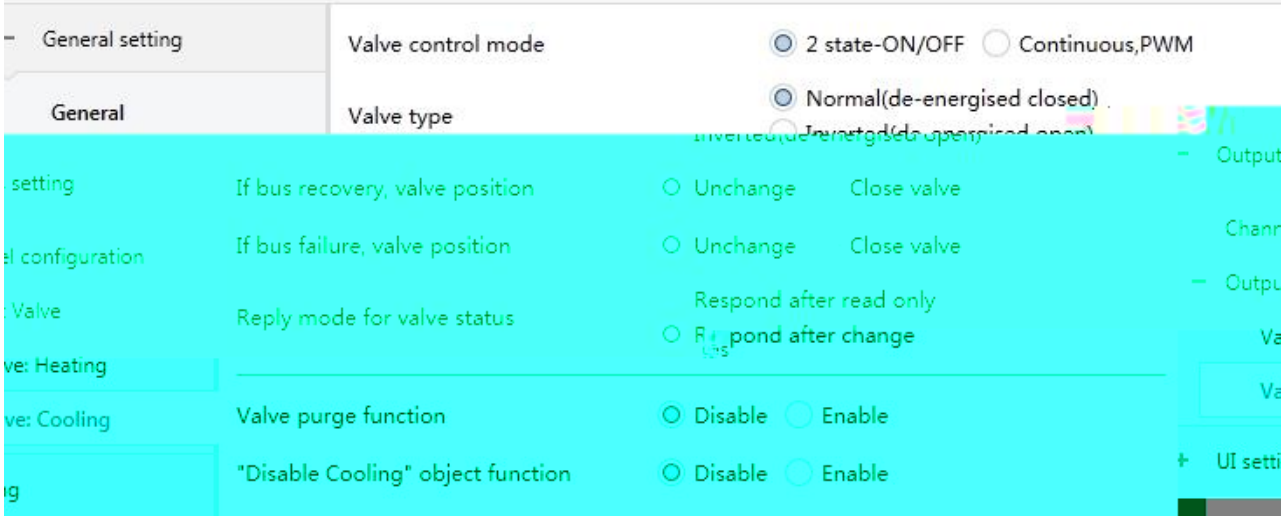
k **0 100 %**

k

4.6.1 : /C &

k




General setting
General
Valve control mode
2 state-ON/OFF
Continuous,PWM
Valve type
Normal(de-energised closed)
If bus recovery, valve position
Unchange
Close valve
If bus failure, valve position
Unchange
Close valve
Reply mode for valve status
Respond after read only
Valve purge function
Disable
Enable
"Disable Cooling" object function
Disable
Enable

&

k

2 - /

C ,

3 ,

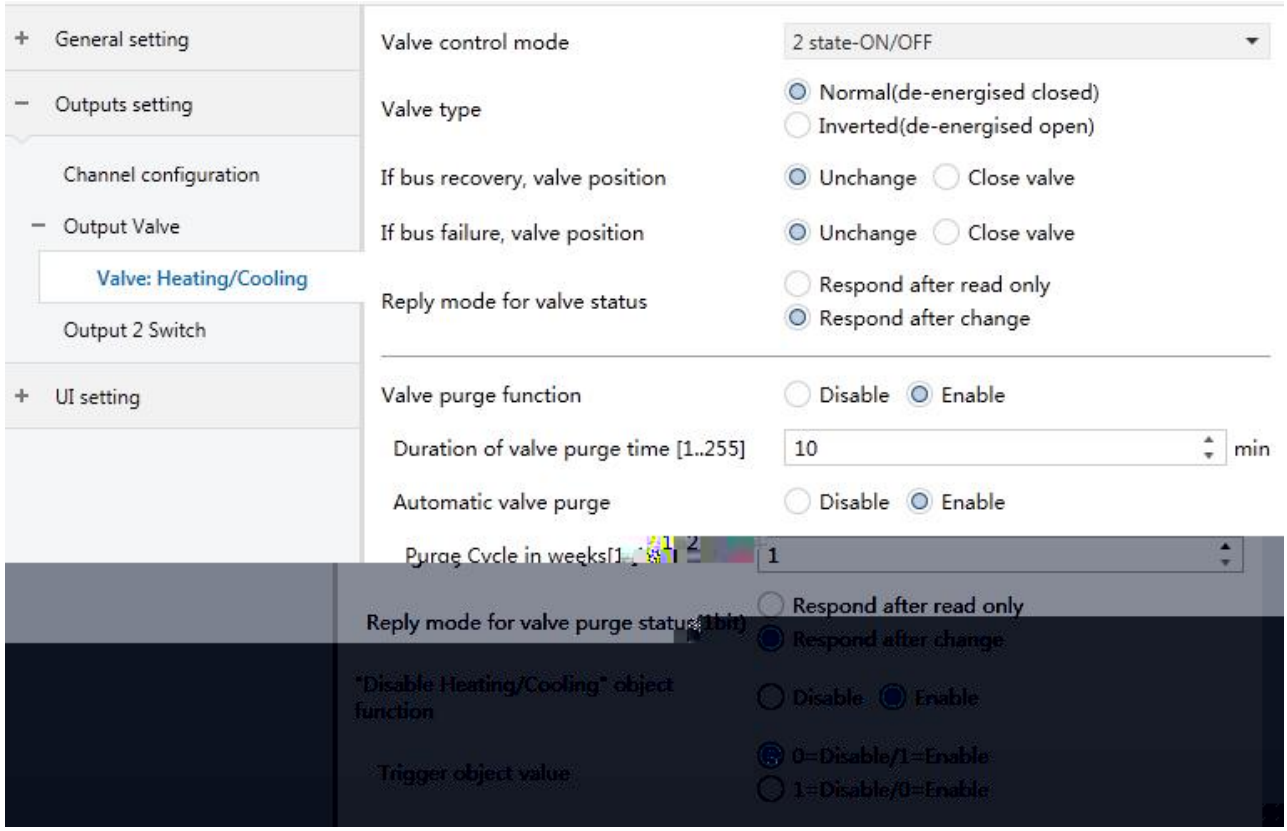
k

2- 4- k

/ k

4.6.1.1 2 - /

k



&

k

(-)

(-)

k

,

k

c

k

k

C

k

k

L

k

L

L

k

k

&

D

k

D 1...255

k 1、255

k

k

A

k

k

C **1...12**

k

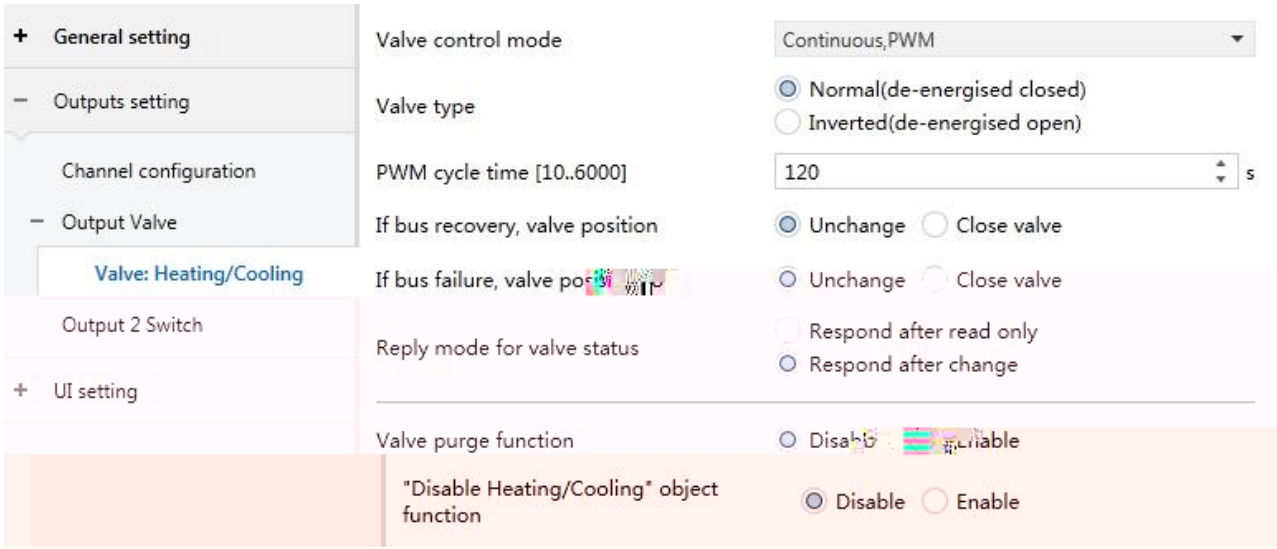
k

k

k

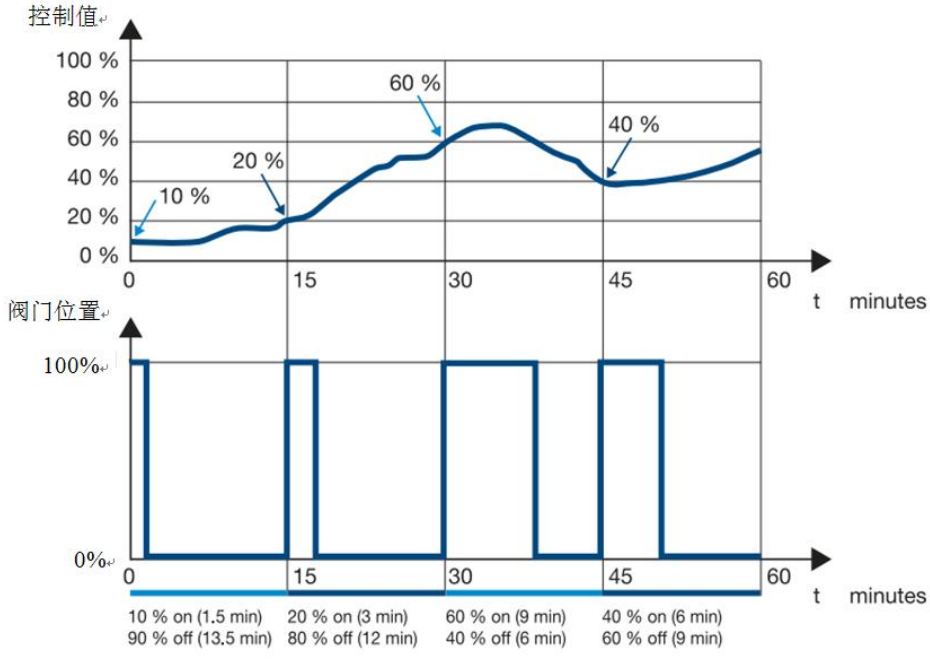
4.6.1.2 C ,

k



k

k


控制值
100 %
80 %
60 %
40 %
20 %
0 %
10 %
20 %
60 %
40 %
0
15
30
45
60
t minutes
阀门位置
100%
0%
0
15
30
45
60
t minutes
10 % on (1.5 min)
90 % off (13.5 min)
20 % on (3 min)
80 % off (12 min)
60 % on (9 min)
40 % off (6 min)
40 % on (6 min)
60 % off (9 min)

!

k

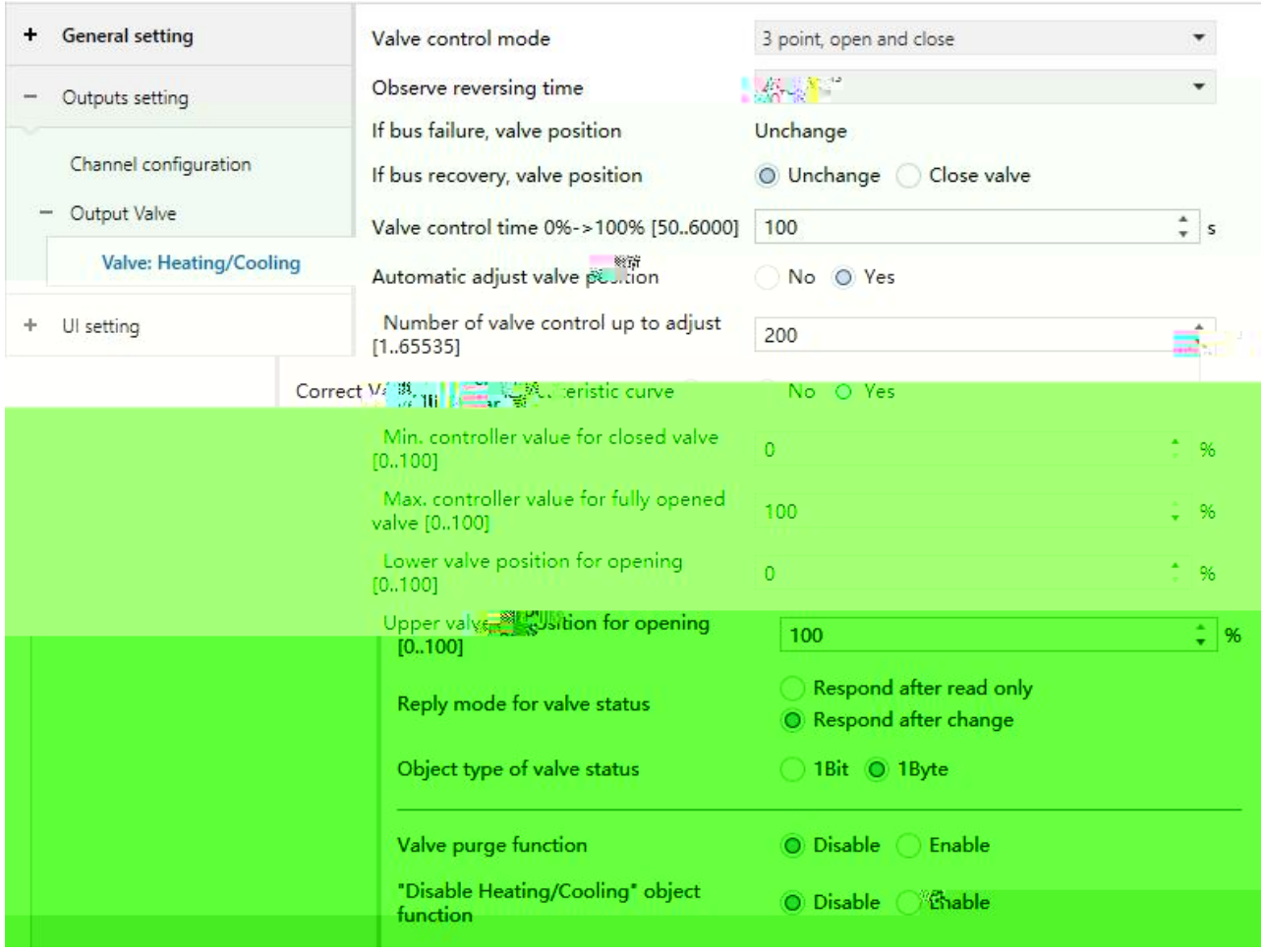
k

10、6000

k

4.6.1.3 3 ,

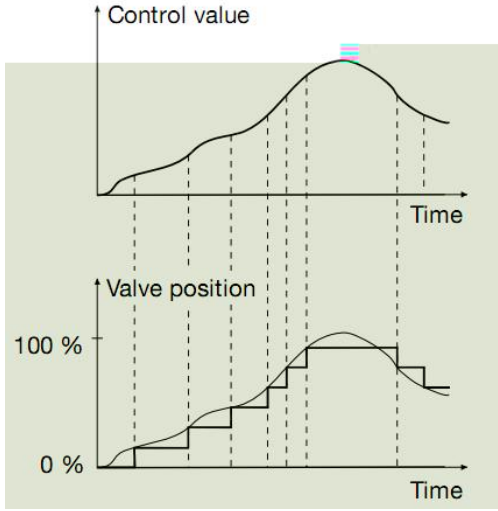
k


General setting
Outputs setting
Channel configuration
Output Valve
Valve: Heating/Cooling
UI setting
Valve control mode
3 point, open and close
Observe reversing time
If bus failure, valve position
Unchange
If bus recovery, valve position
Unchange
Close valve
Valve control time 0%->100% [50..6000]
100
s
Automatic adjust valve position
No
Yes
Number of valve control up to adjust [1..65535]
200
No
Yes
Min. controller value for closed valve [0..100]
0
%
Max. controller value for fully opened valve [0..100]
100
%
Lower valve position for opening [0..100]
0
%
[0..100]
100
%
Reply mode for valve status
Respond after read only
Respond after change
Object type of valve status
1Bit
1Byte
Valve purge function
Disable
Enable
"Disable Heating/Cooling" object function
Disable

!

k

k



k

100 /200 / /1 /1.2 /1.5

k

k

k

C

k

k

0% **0%**

k

k

0% – 100% 30 6000

k 50、6000

k

k

A

k

k

k

1、65535

k 1、65535

k

k Ô

Ô k

k

k

k

k

C &

k

k

. 0..100 %

. 0...100 %

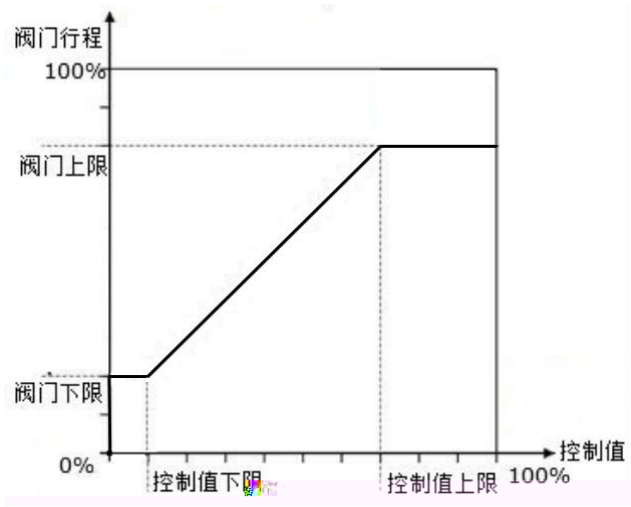
0...100 %

0...100 %

k

0...100 %

k



L

k

L

1

k

k

k

1

1

k

k

>0

0

1

k

3 ,

C , C /

1 !

k **k**

2 !

3 , k

3 ! / k

k

k

4 !

k

k

1 ! k

2 !

k

3 ! !

1 k

4 !

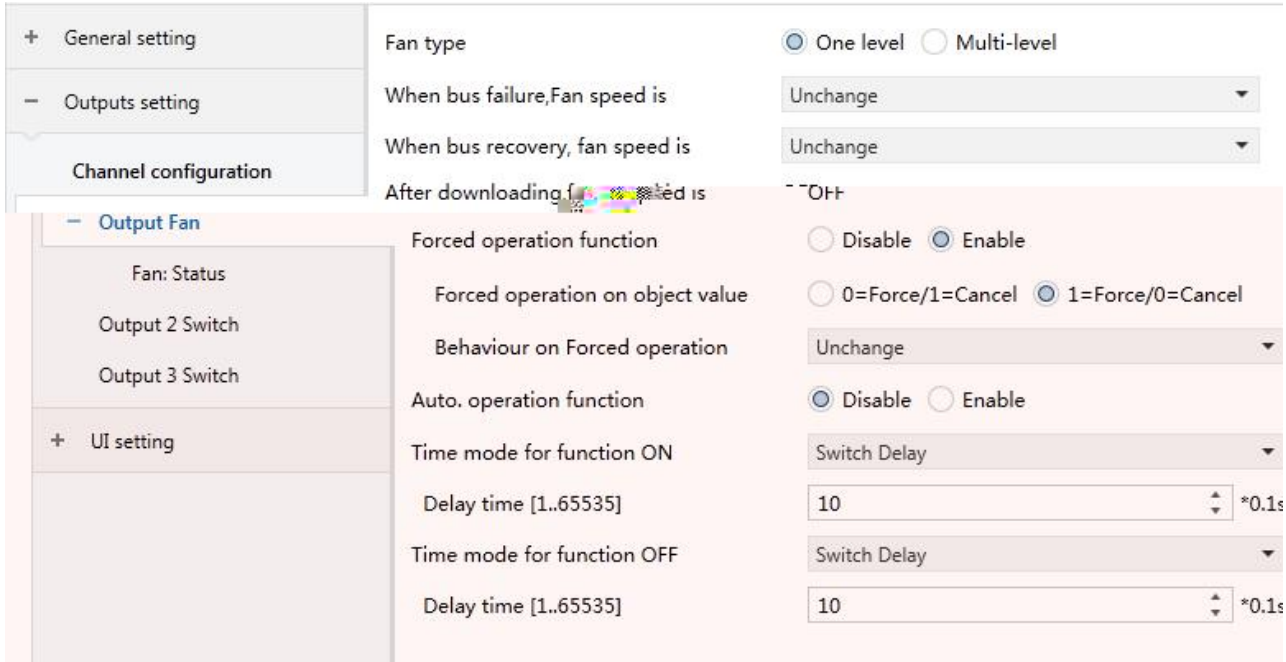
k

4.7.

k

4.7.1 --

k


General setting
Outputs setting
Channel configuration
Output Fan
Fan: Status
Output 2 Switch
Output 3 Switch
UI setting
Fan type
One level
Multi-level
When bus failure,Fan speed is
Unchange
When bus recovery, fan speed is
Unchange
Forced operation function
Disable
Enable
Forced operation on object value
0=Force/1=Cancel
1=Force/0=Cancel
Behaviour on Forced operation
Unchange
Auto. operation function
Disable
Enable
Time mode for function ON
Switch Delay
Delay time [1..65535]
10
*0.1s
Time mode for function OFF
Switch Delay
Delay time [1..65535]
10
*0.1s

k

-

k

k

k

A

k

k

A

k

k

k

k

k

0= /1=C

1= /0=C

k

B

k

k

k

k

1..65535 *0.1

k **1 65535**

1..65535

k **1 65535**

k

k

k

k

k

1..65535 *0.1

k

1..65535

k

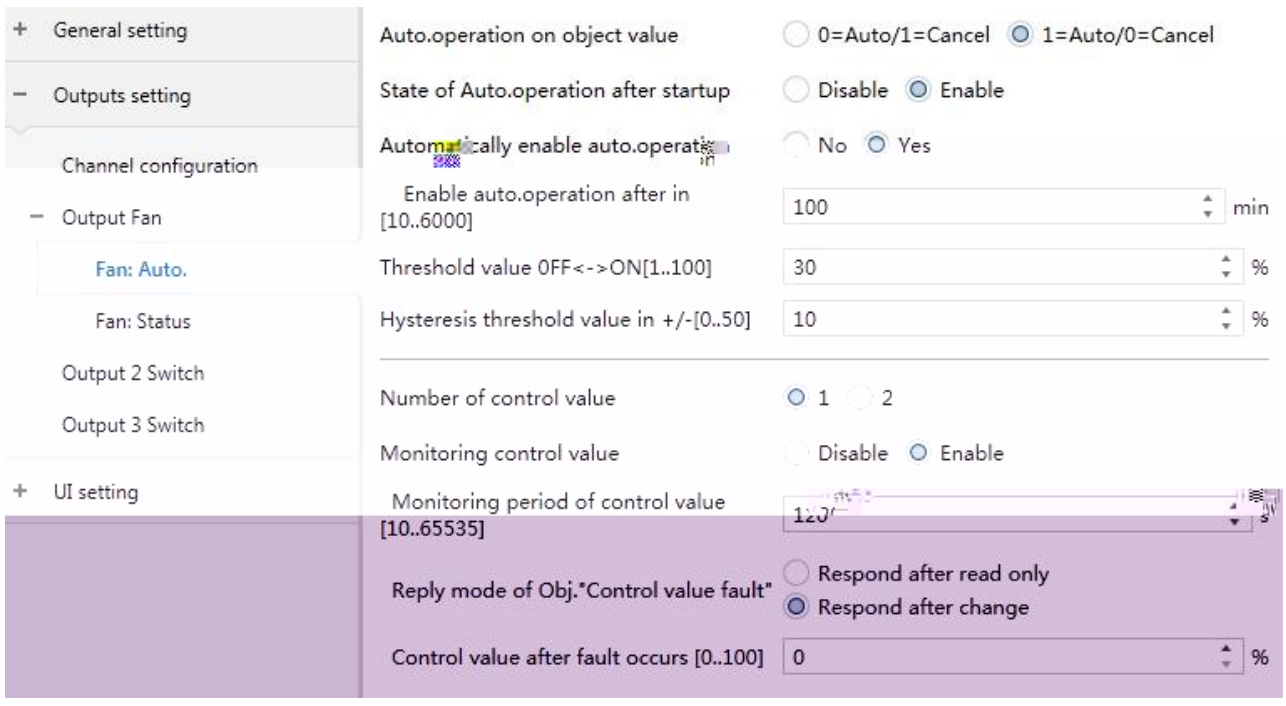
4.7.1.1 : A .

k

k

k

k



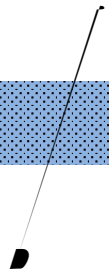
A .

k

0=A /1=C

1=A /0=C

k



A .

k

k

A .

k

k

k

. 10..6000

k **10..6000**

<-> 1 100 %

k **1 100**

k

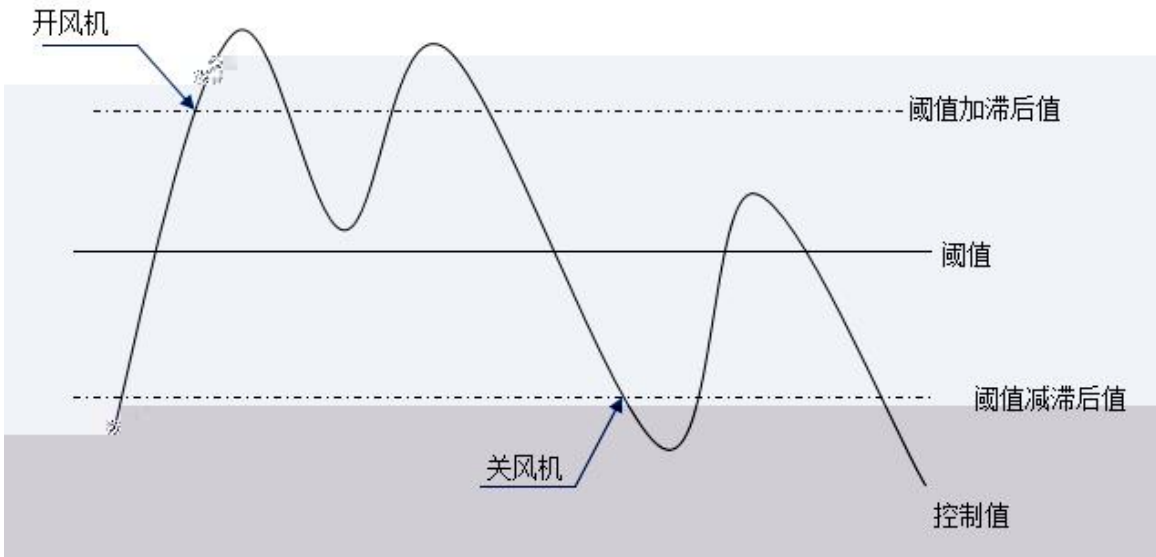
+/- 0 50 %

k 0、

50

k

k



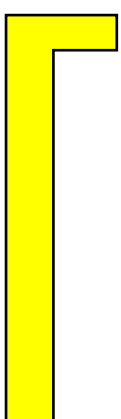
k

1 1

2 2

k

k k



[illegible]

C *1* *1 N*

2 vÚ

vÚ'L$?

4?6k

& m'ó d l, vÚ t3 /ü d l, vÚ k d t3:&:&:$?

4?

1 2 k m k

`i

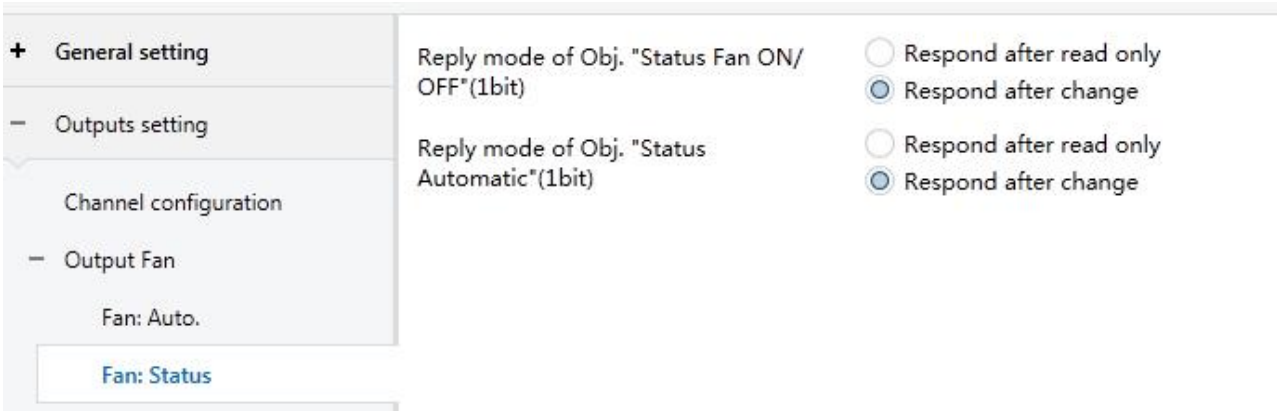
,Q

C 0..100 %

k 0 100 %

4.7.1.2 :

k



L . / (1)

k

L

L

k

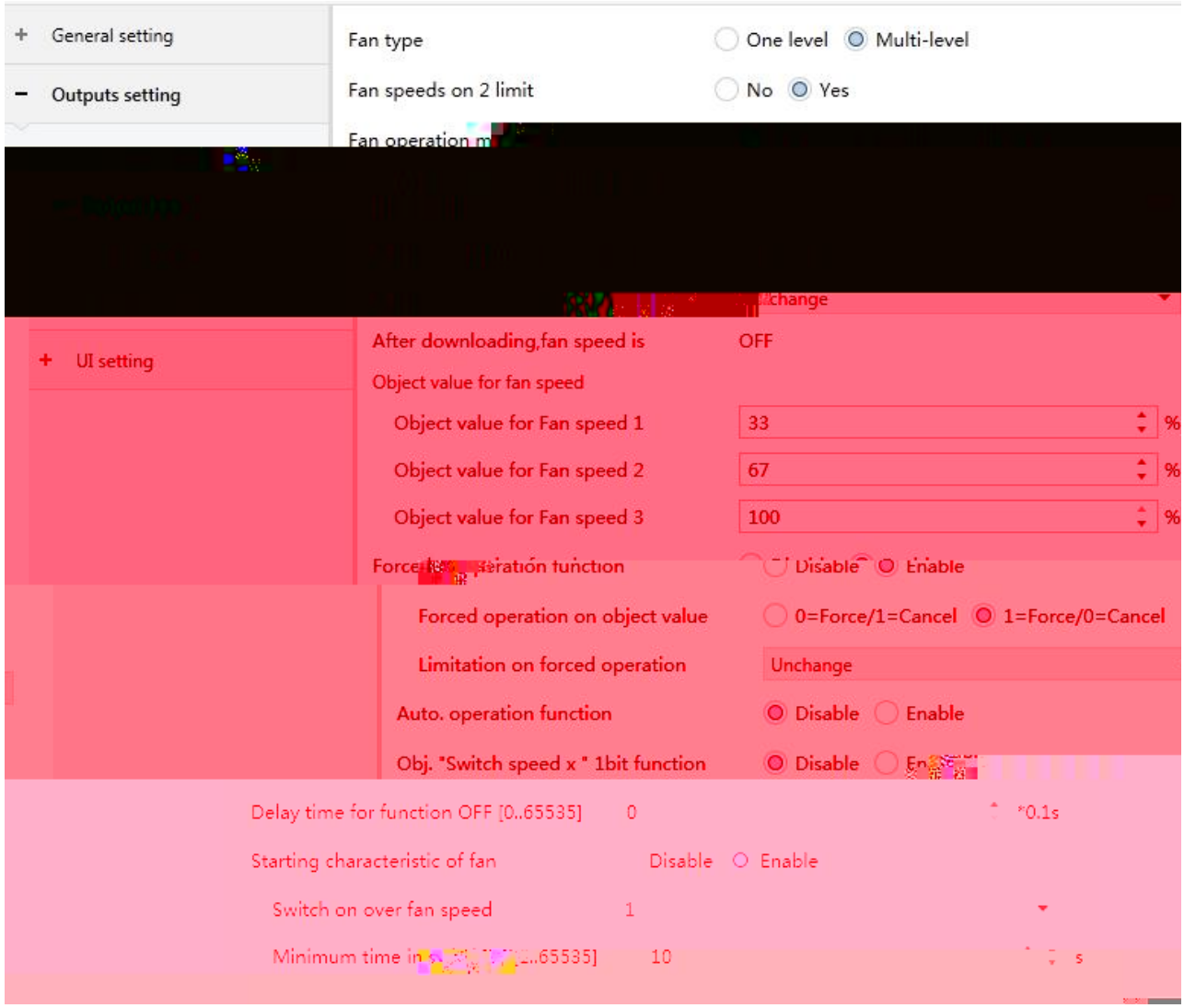
L . A (1)

k

k

4.7.2 -- -

k


General setting
Outputs setting
UI setting
Fan type
One level
Multi-level
Fan speeds on 2 limit
No
Yes
After downloading,fan speed is
OFF
Object value for fan speed
Object value for Fan speed 1
33
%
Object value for Fan speed 2
67
%
Object value for Fan speed 3
100
%
Disable
Enable
Forced operation on object value
0=Force/1=Cancel
1=Force/0=Cancel
Limitation on forced operation
Unchange
Auto. operation function
Disable
Enable
Obj. "Switch speed x " 1bit function
Disable
Delay time for function OFF [0..65535]
0
*0.1s
Starting characteristic of fan
Disable
Enable
Switch on over fan speed
1
10
s

k

k

k

k

k

2 3 k

k

c

k

k

k

k

k

50 5000

k 50、 5000

k

k

.

k

1

2

3

k

2 **3** **k**

,

k

1

2

3

A

k

k **2** **3** **k**

A ,

k

1/2/3

k **1..100%**

k

k

k

k

k

0= ***/1=C***

1= ***/0=C***

k

k

k

k

1

1,

2

2, 1

2, 1,

3

3, 2

3, 2, 1

k

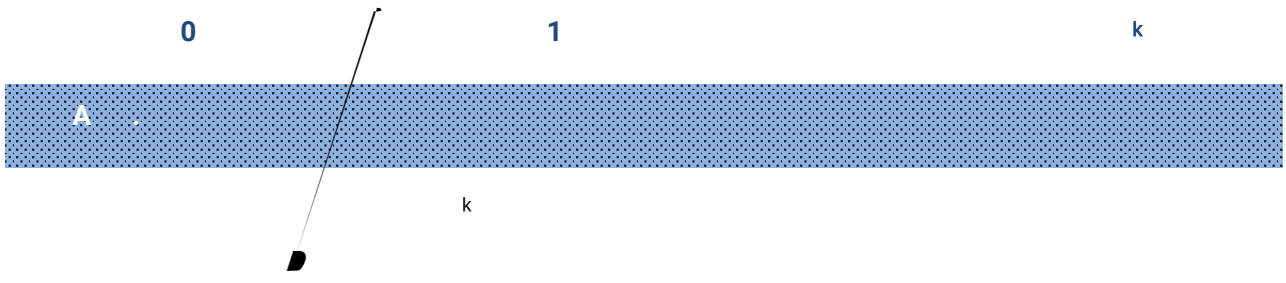
1 2 ! 3

2 1 2 k

0 1 ! 2 ! 3 3

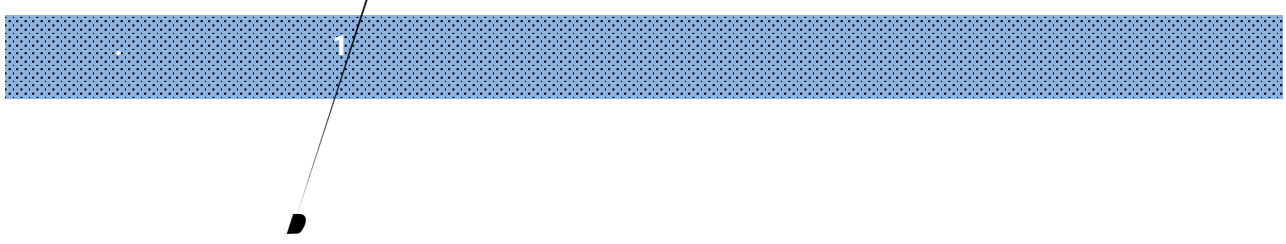
3 1 2 1 ! 2

0 1 k



k

k



k

k

k

k

k

k

k

0...65535 *0.1

k

k

0 65535 0

k

k

k

!

k

k

k

k

k

3 2 1

3 2 1

k

k k

k

k

k 1/2/3

k

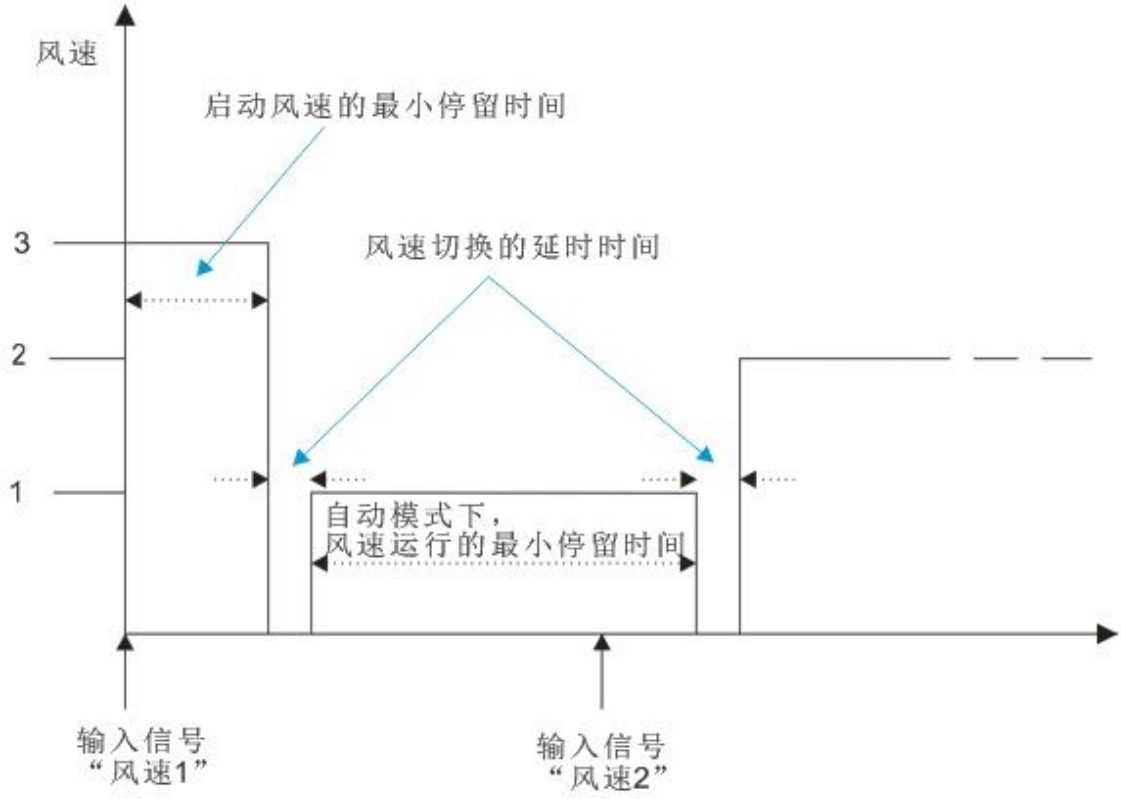
k

1..65535

k 1、65535

k

k


风速
启动风速的最小停留时间
3
风速切换的延时时间
2
1
自动模式下，
风速运行的最小停留时间
输入信号
“风速1”
输入信号
“风速2”

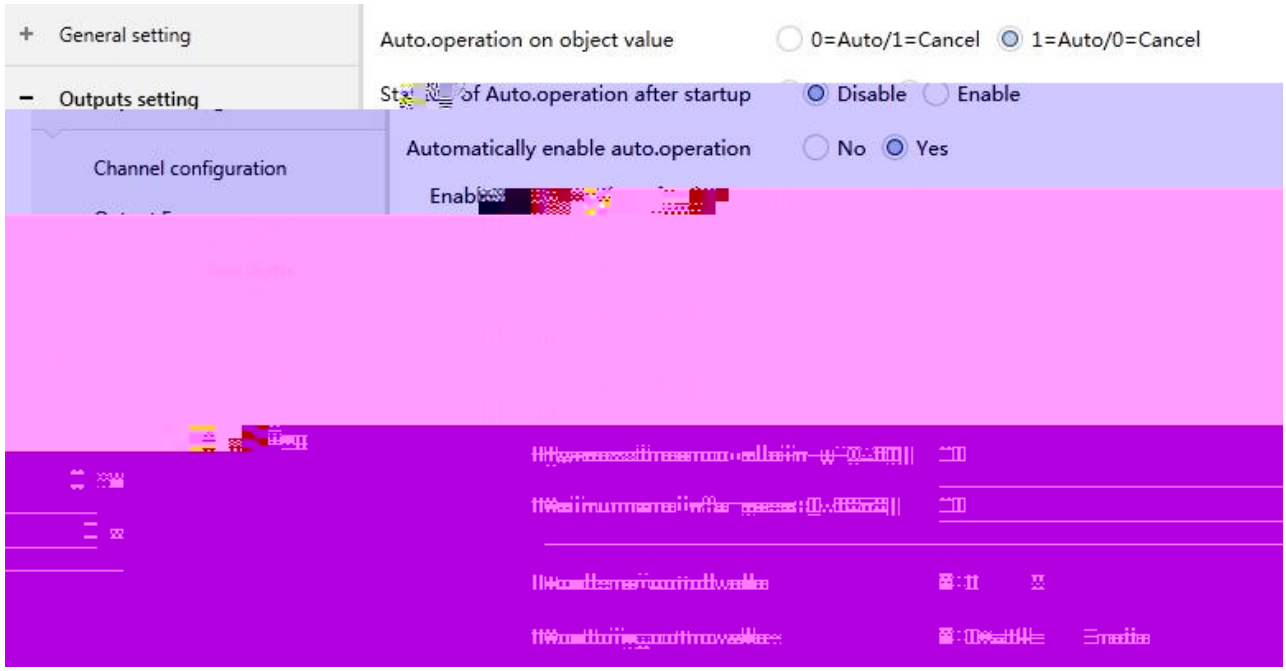
k

4.7.2.1 : A .

k

k

k



A .

k

0=A /1=C

1=A /0=C

k

A .

k

k

A .

k

k

k

. 10..6000

k 10..6000

<--> 1 1 100 %

1、100%

k

k k

1<--> 2 1 100 %

k

1、100

2<--> 3 1 100 %

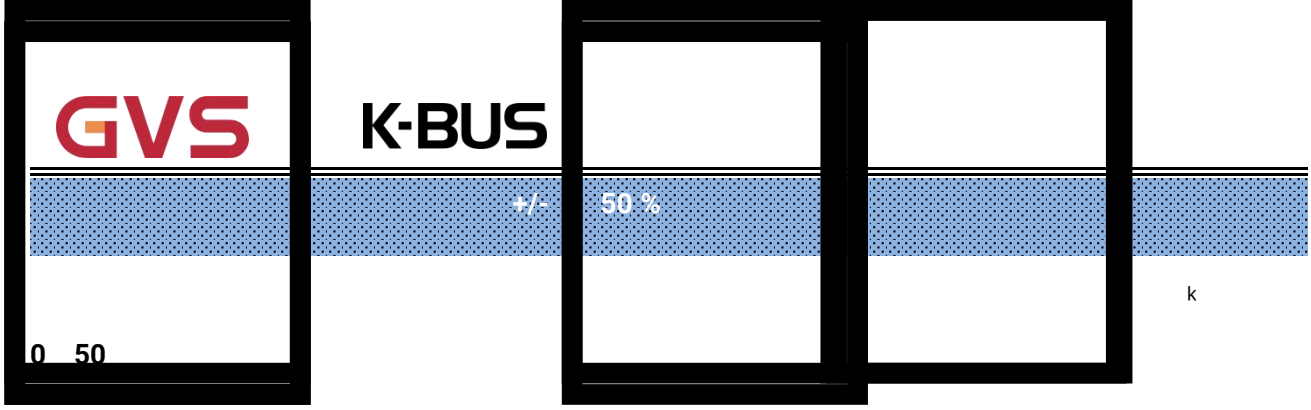
k

1、100

<-> 1

1 <-> 2 2 <-> 3 k <-> 1

1 <-> 2 1 <-> 2 2 <-> 3 k



k

□ □ □ □ □ □ □ □ □ □ □ □ □

k

k

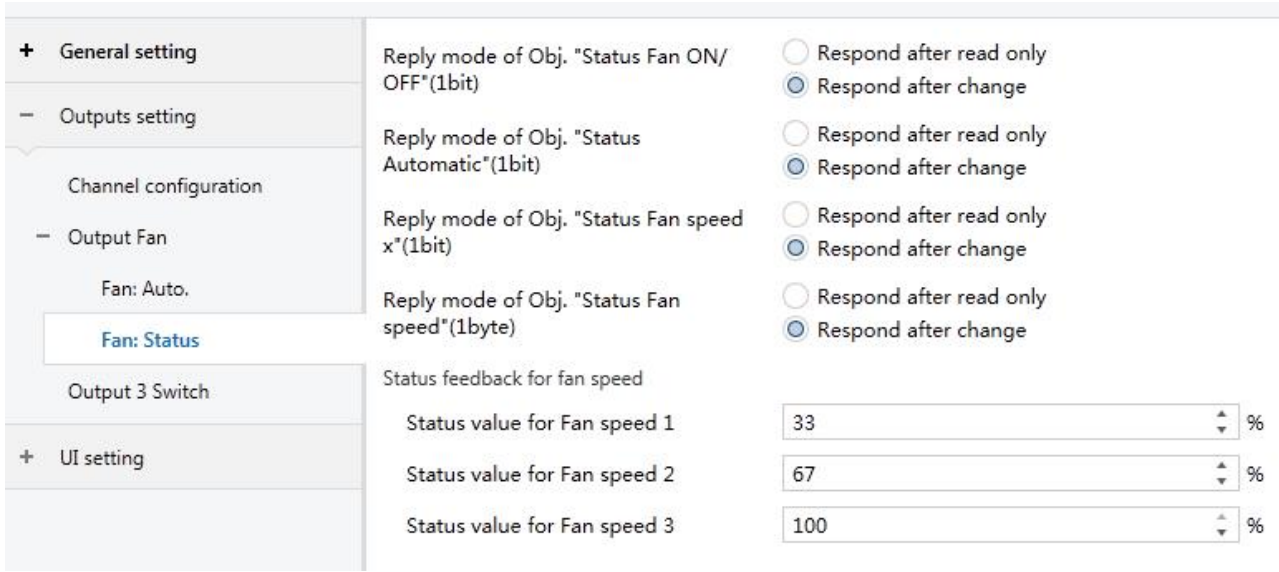
k

k

k

4.7.2.2 :

k



L . / (1)

k

L

L

k

L . A (1)

k

k

L

L

k

k !

k

k

k

k

k

k

1/2/3 1..100 %

k **1..100%** k

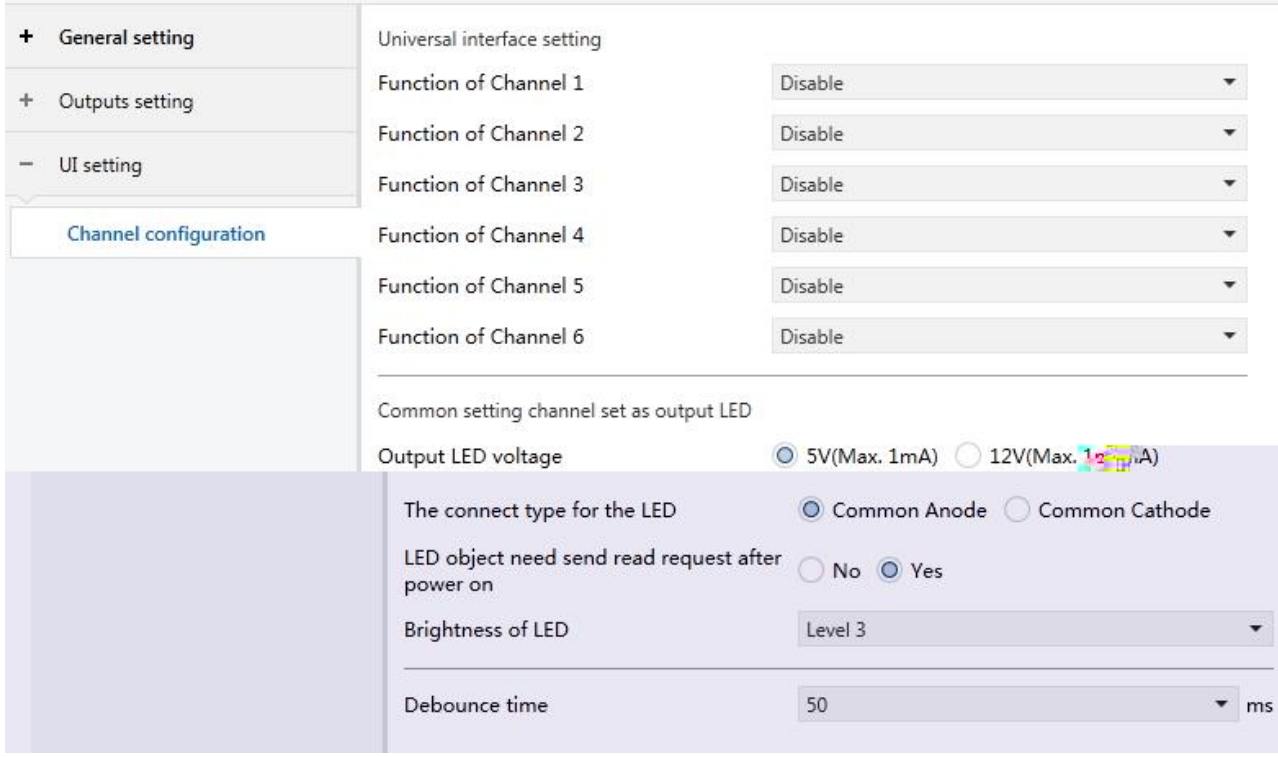
k

k

4.8. C

k

k



C

k

L L

/ 0 k

D

k

5 (.1 A) &

12 (.1 A) &

D

k

C -A

C -C

D

k

k

k

k

A 0

k

k

B D

k

1

2

3

D

k

50

70

100

150

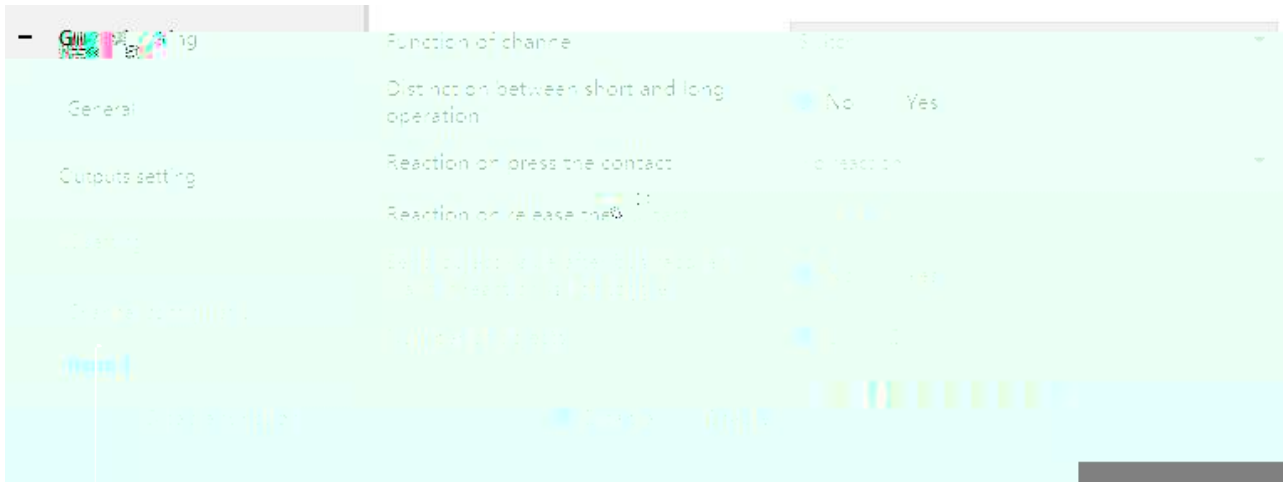
4.9.

! ! ! ! ! !

k k

4.9.1

k



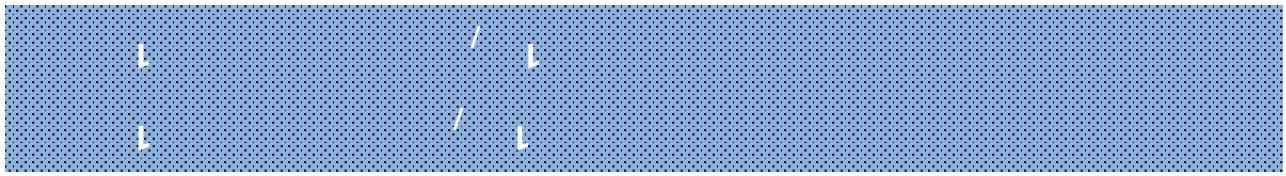
k

k

3..25 *0.1

k

k ***3..25***



k k

L

k

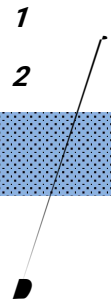
k

( )

k

k

k



k

k k

k

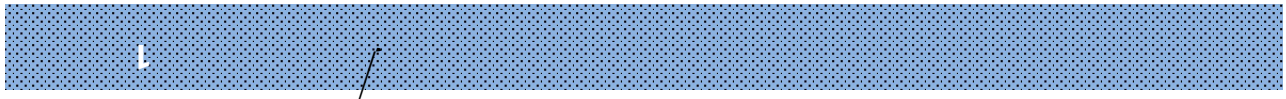
k

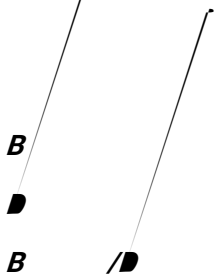
=1/ =0

=0/ =1

k

k



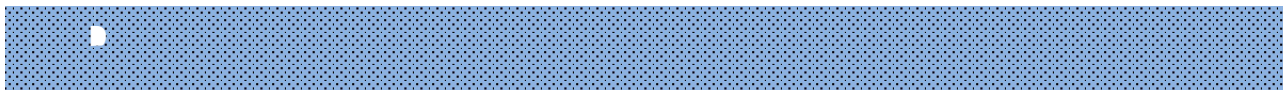


k

k

k

k k



k

k k

k

k

100%

50%

1.56%

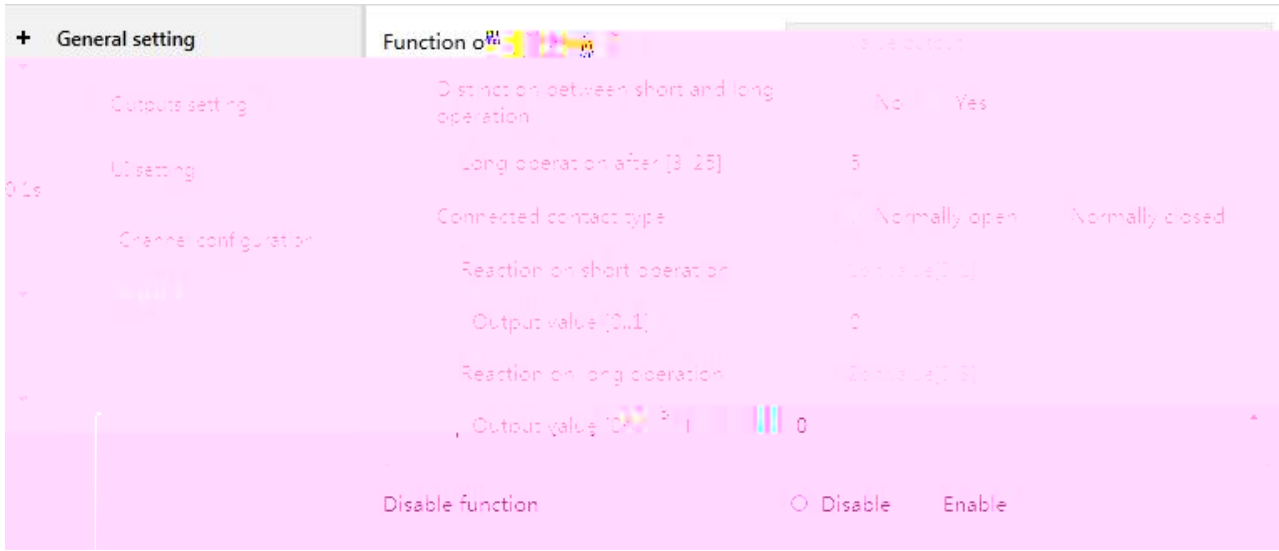
. C 0..25 *0.1 (0=

k

0..25 , 0=

4.9.3 &

k



k

k

3..25 *0.1

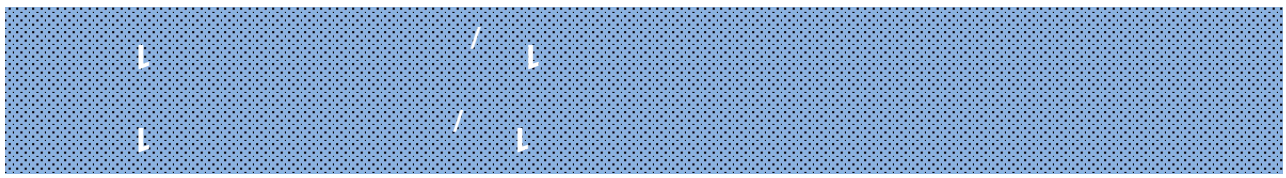
k

k *3..25*

C

k

k



k

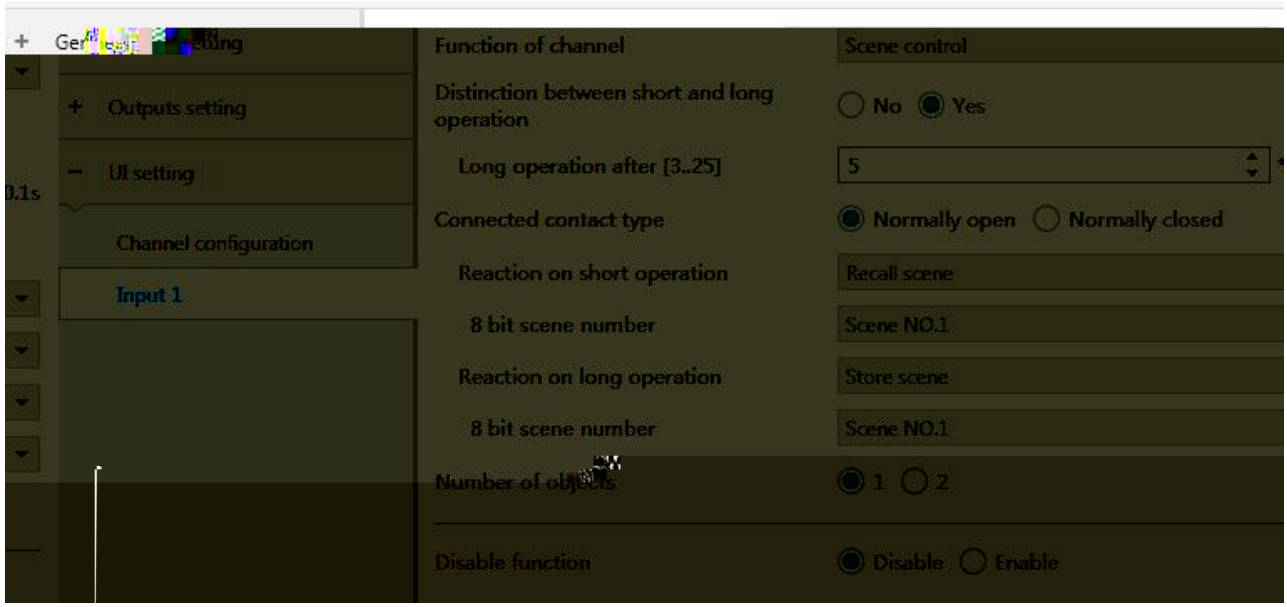
1 0..1

2 0..65535

k k

4.9.4

k



k

k

3..25 *0.1

k

k ***3..25***

C

k

k

k

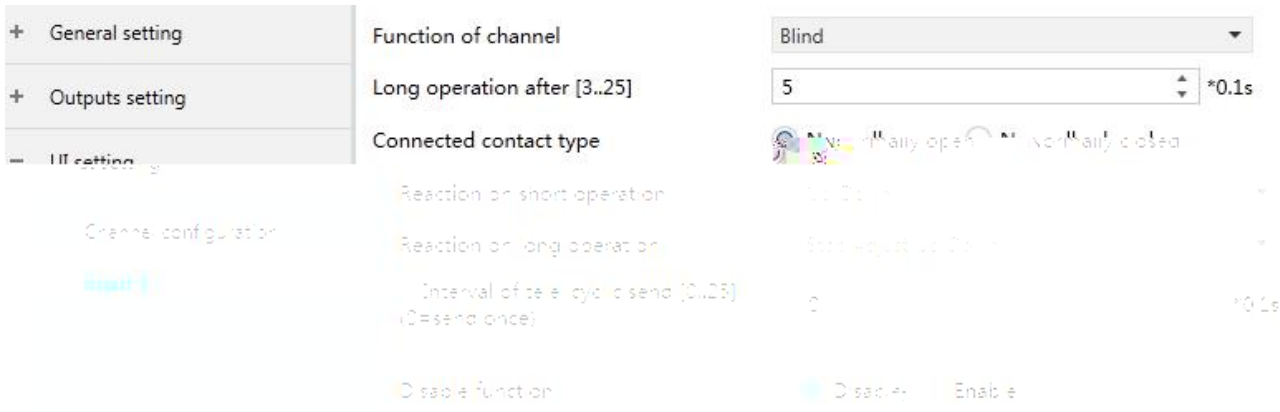
k

k

k

4.9.5 B

k



3..25 *0.1

k

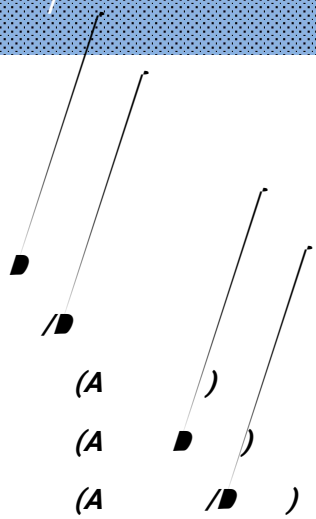
k *3..25*

C

k

k

1 /



(A)

(A)

(A /D)

k

k

k

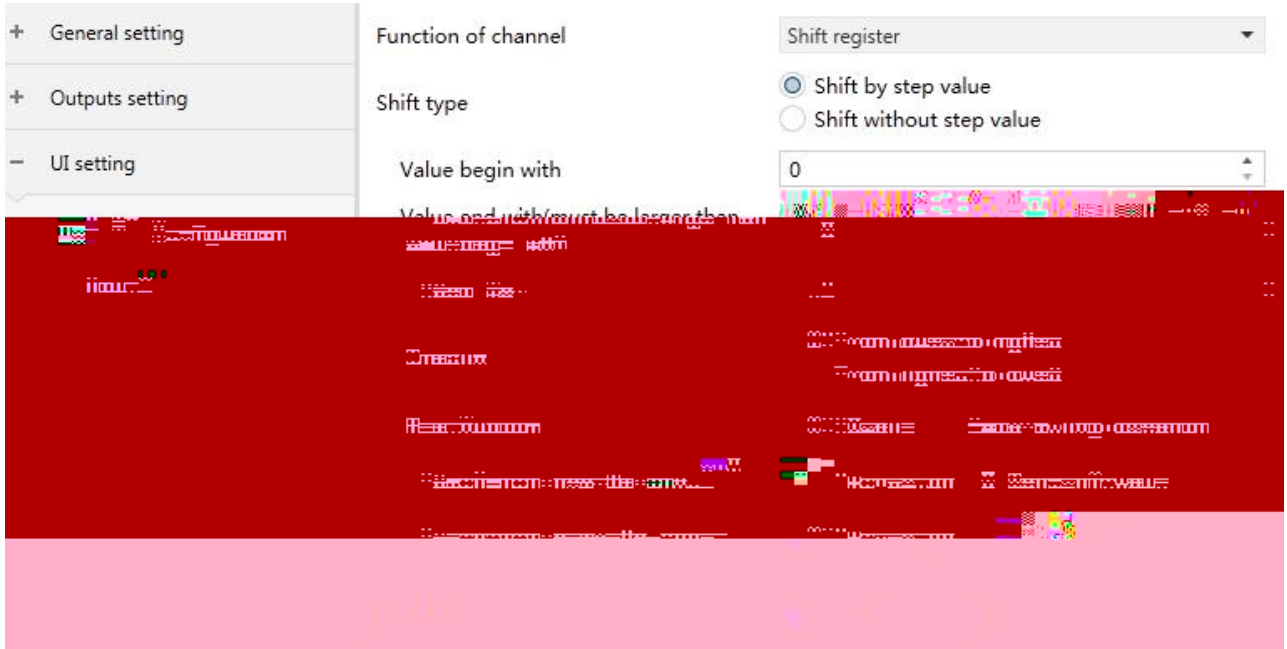
. **0..25 *0.1 (0=**

Stop... k

0..25 0

4.9.6

k



k

k

k

&

k ***0...240***

(&)

k ***1...255***

k

k 0...240

k 1/2/.../10

k

1/.../10 &

k 0..255

k

k

k

k

k

k

/

k

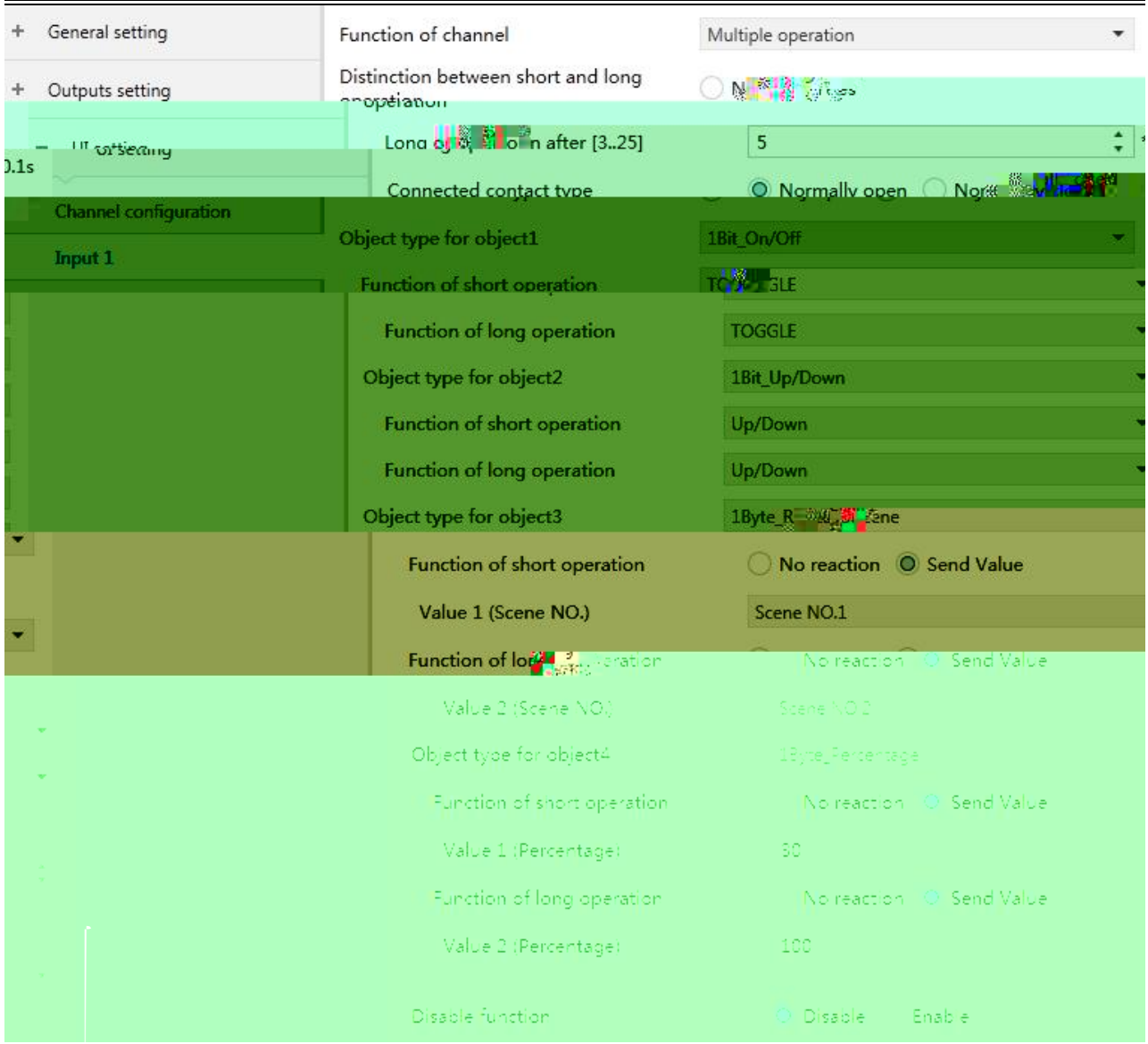
3..25 *0.1

k

k ***3..25***

C

□ □ □ □



k

k

3..25 *0.1

k

k ***3..25***

C

k

k

(=1..4)

k

1B /

1B

/ /

k

1/2 ... &

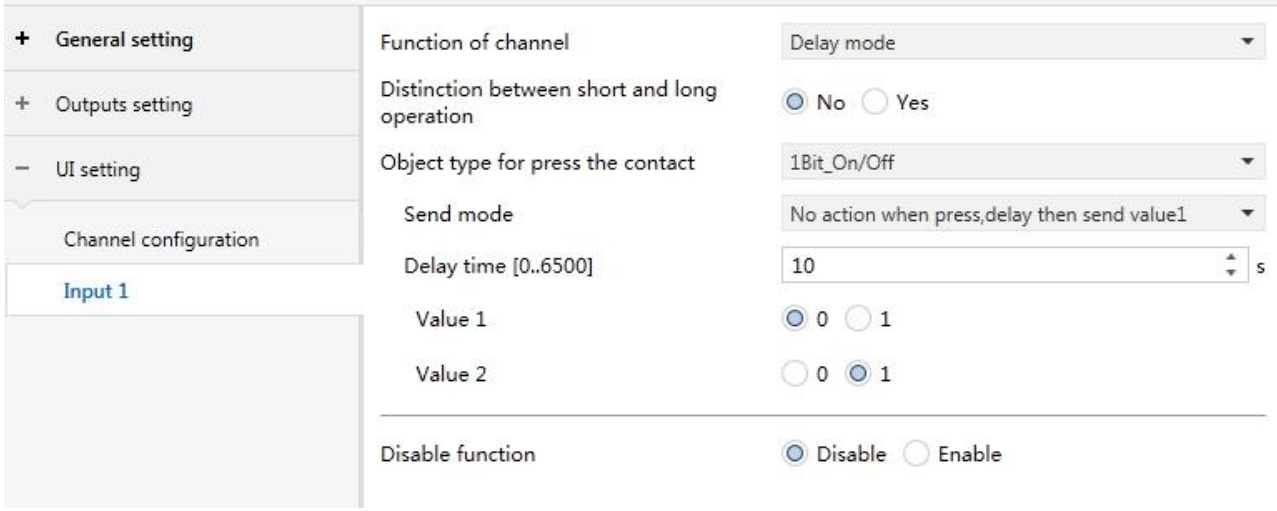
k k

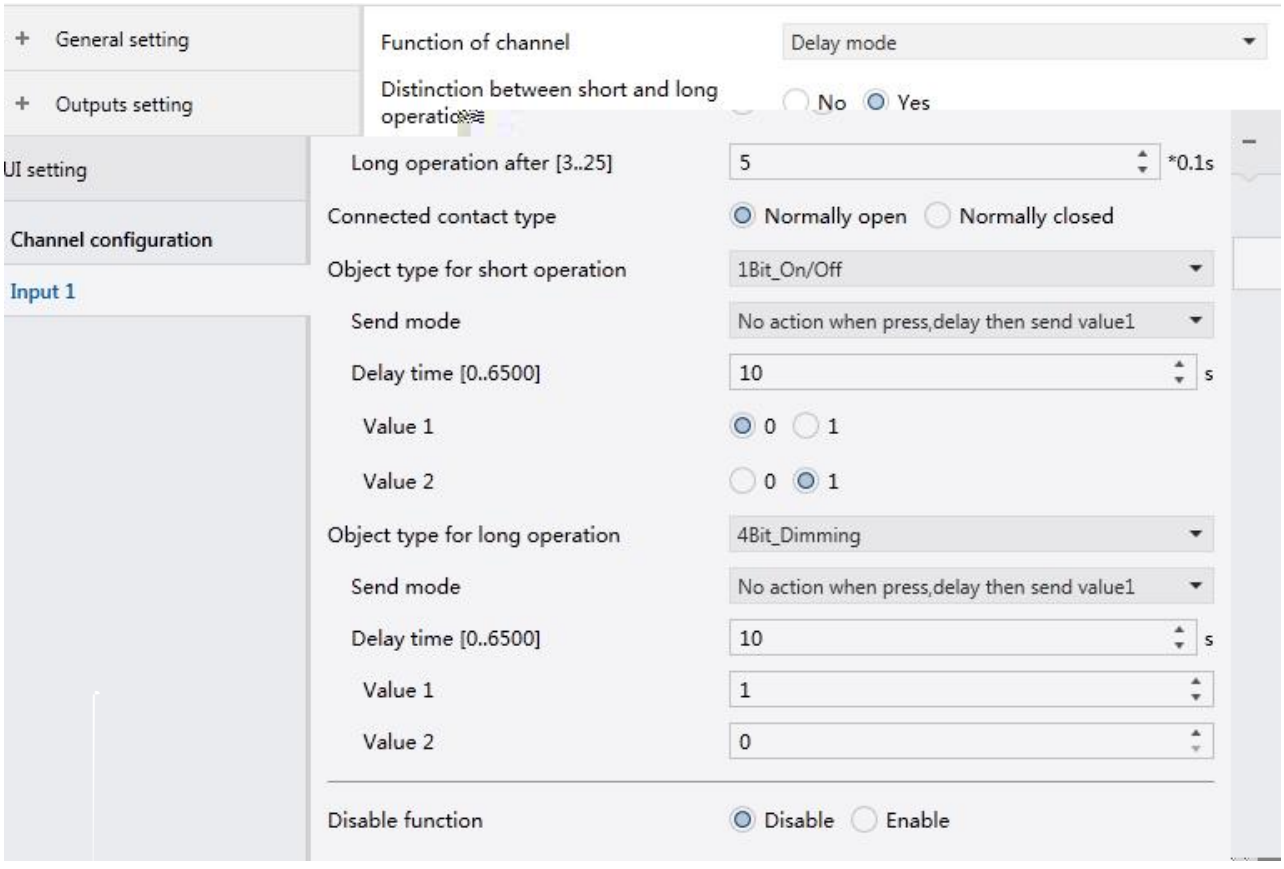
k

4.9.8

k

k


General setting
Outputs setting
UI setting
Channel configuration
Input 1
Function of channel
Delay mode
Distinction between short and long operation
No
Yes
Object type for press the contact
1Bit_On/Off
Send mode
No action when press,delay then send value1
Delay time [0..6500]
10
s
Value 1
0
1
Value 2
0
1
Disable function
Disable
Enable


General setting
Outputs setting
UI setting
Channel configuration
Input 1
Function of channel
Delay mode
Distinction between short and long operation
No
Yes
Long operation after [3..25]
5
*0.1s
Connected contact type
Normally open
Normally closed
Object type for short operation
1Bit_On/Off
Send mode
No action when press,delay then send value1
Delay time [0..6500]
10
s
Value 1
0
1
Value 2
0
1
Object type for long operation
4Bit_Dimming
Send mode
No action when press,delay then send value1
Delay time [0..6500]
10
s
Value 1
1
Value 2
0
Disable function
Disable
Enable

k

k

3..25 *0.1

k

k 3..25

C

k

k

/ /

k

1B /

4B

1B

k

, 1 1

, 2 2

1 , 2 1 2

2 , 1 2 1

0..6500

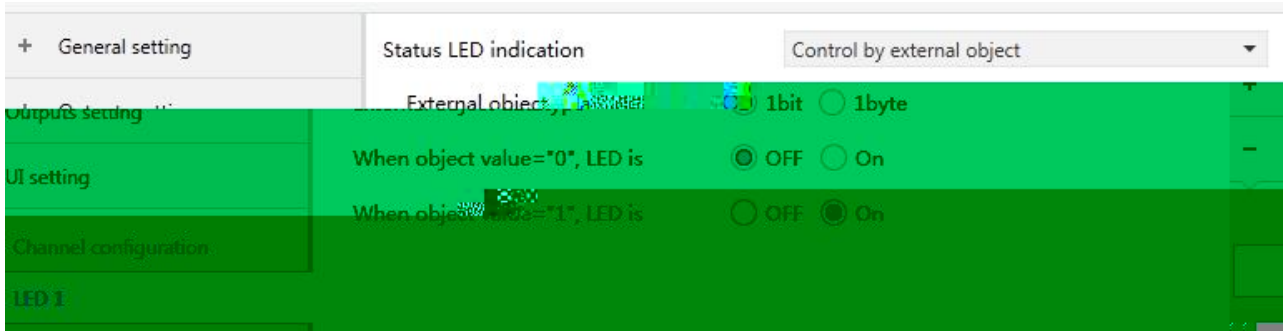
k 0..6500

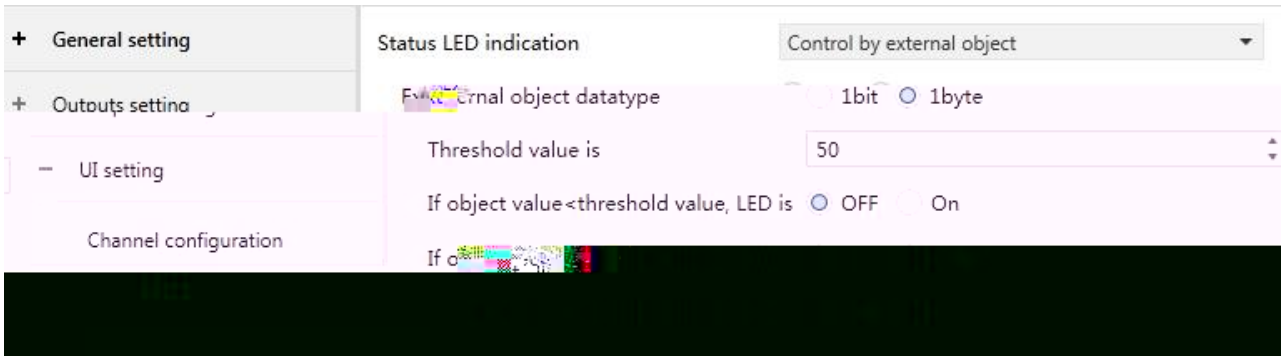
k k

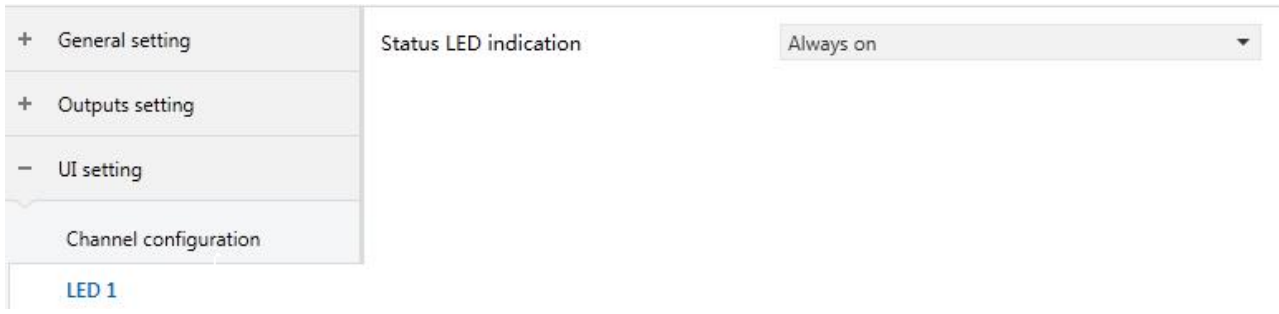
4.10.

k

k


General setting
Status LED indication
Control by external object
1bit
1byte
When object value="0", LED is
OFF
On
When object value="1", LED is
OFF
On
UI setting
Channel configuration
LED 1


General setting
Status LED indication
Control by external object
1bit
1byte
Threshold value is
50
If object value<threshold value, LED is
OFF
On
UI setting
Channel configuration


General setting
Status LED indication
Always on
Outputs setting
UI setting
Channel configuration
LED 1

C

A

k

k

1

1

= 0/1 ,

k

1...255

< **,**

k

= **,**

k

k

k

k

C

L

k

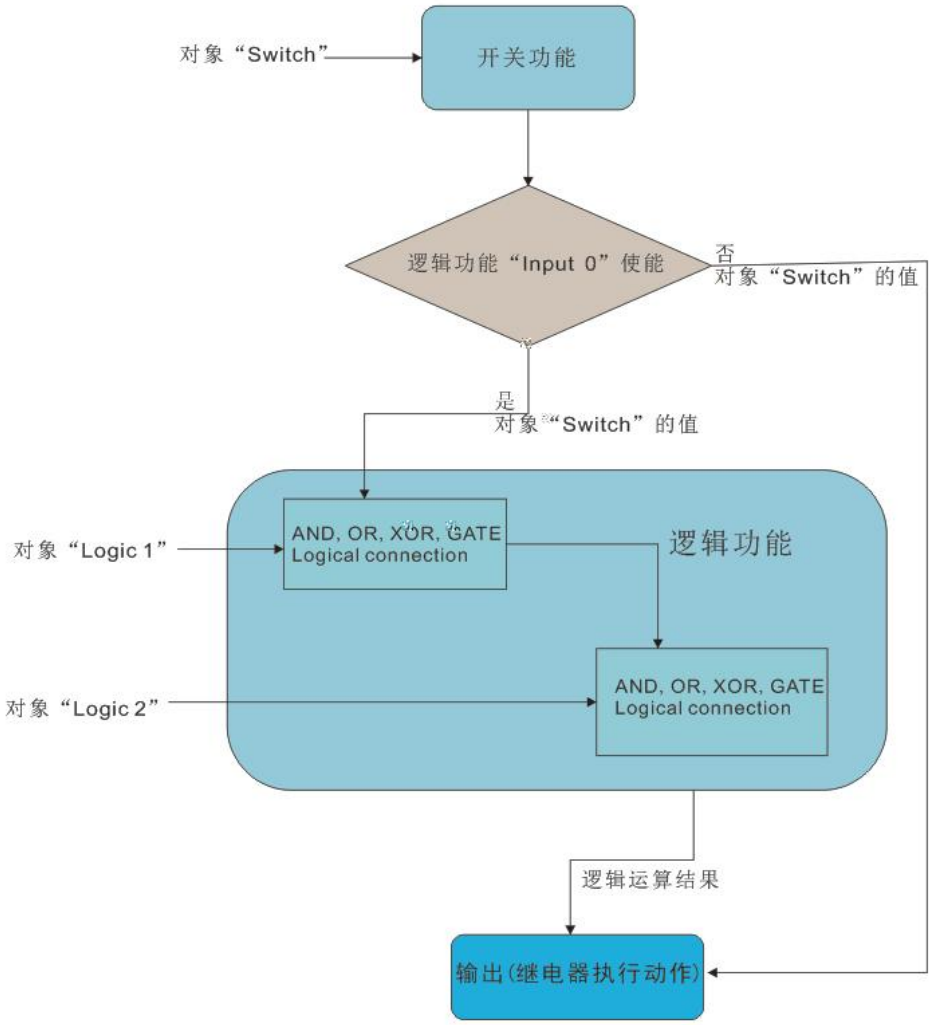
5.1.

5.1.1 --

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	Output 1 Switch	Switch			1 bit	C	-	W	-	-	switch	Low
3	Output 1 Switch	Switch status			1 bit	C	R	-	T	-	switch	
4	Output 1 Switch	Enable time function			1 bit	C	-	W	-	-	enable	Low
5	Output 1 Switch	Delay function			1 bit	C	-	W	-	-	switch	Low
6	Output 1 Switch	Operation hours counter			4 bytes	C	R	W	T	U	time lag (s)	Low
7	Output 1 Switch	Scene			1 byte	C	-	W	-	-	scene control	Low
8	Output 1 Switch	Forced output			2 bit	C	-	W				
5	Output 1 Switch	Flashing function			1 bit	C	-	W	-	-	switch	Low
5	Output 1 Switch	Staircase function			1 bit	C	-	W	-	-	switch	Low
6	Output 1 Switch	Operation hours counter			2 bytes	C	R	W	T	U	time (h)	Low
8	Output 1 Switch	Forced output			1 bit	C	-	W	-	-	enable	Low

1			**1**	**C,**	**1.001**
k					
2			**1**	**C,**	**1.001**
k					

k



3			**1**	**C, , ,**	**1.001**

k

k

4			**1**	**C,**	**1.003**

k

k

k

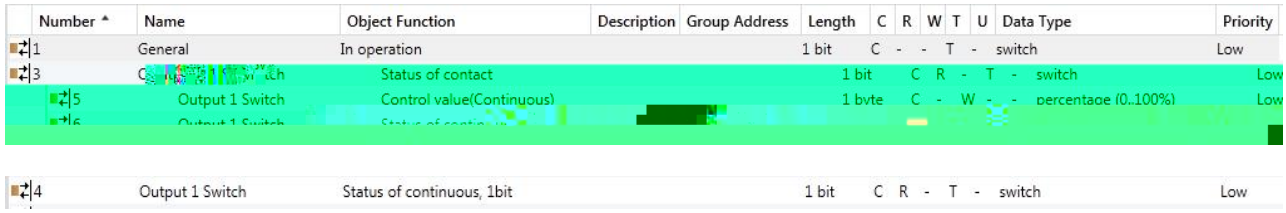
5			**1**	**C,**	**1.001**

					k
5			1	C,	1.001 D
					k
5			1	C,	1.001 D
					k
6			2 4	C, , L, ,	7.007 D 13.100 D D
					k k
7			1	C,	18.001 D C
					k k k k k k
8			1 2	C,	1.003 D 2.001 D

k k k						
9		**1**	**1**	**C,**	**1.002**	**B**
k						
10		**2**	**1**	**C,**	**1.002**	**B**
k						

5.1.2 -- ( )

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
	eral	In operation			1 bit	C	-	-		-	switch	Low
2	Output 1 Switch	On-off control value			1 bit	C	-	W	-	-	switch	Low
3	Output 1 Switch	Status of contact			1 bit	C	R	-	T	-	switch	Low

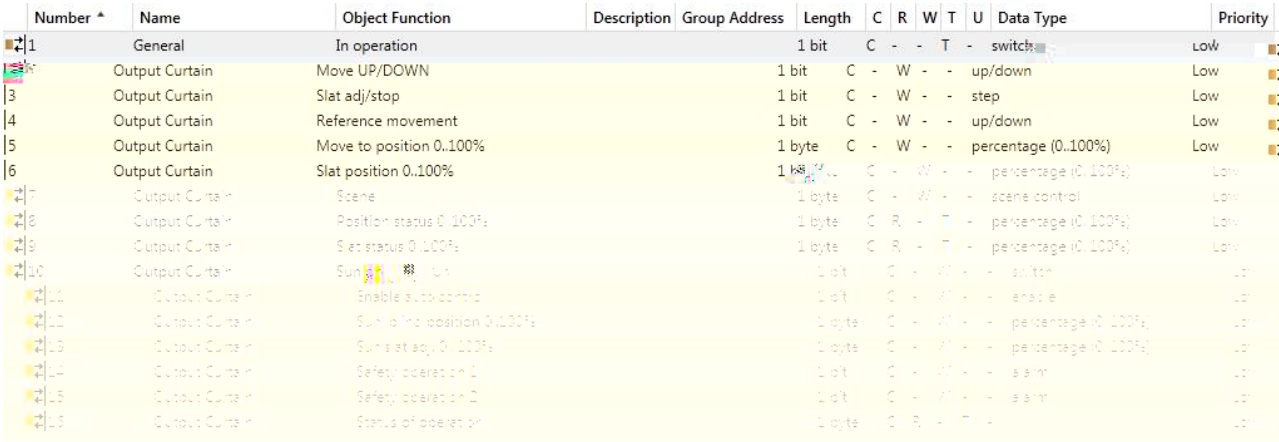


Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
1	General	In operation			1 bit	C	-	-	T	-	switch	Low
3	C ch	Status of contact			1 bit	C	R	-	T	-	switch	Low
5	Output 1 Switch	Control value(Continuous)			1 byte	C	-	W	-	-	percentage (0..100%)	Low
6	Output 1 Switch	Status of contin										
4	Output 1 Switch	Status of continuous, 1bit			1 bit	C	R	-	T	-	switch	Low

2		**-**	**1**	**C,**	**1.001**
		k			
3			**1**	**C, , L**	**1.001**
		k			k
5		**C ( )**	**1**	**C,**	**5.001**
		k			k
4		**, 1**	**1**	**C, , L**	**1.001**
		k		k	
					k
6		**,1**	**1**	**C, , L**	**5.001**

7			1	C, ,	1.005	A
8			1	C,	1.003	

5.2.



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
	Output Curtain	Move UP/DOWN			1 bit	C	-	W	-	-	up/down	Low
3	Output Curtain	Slat adj/stop			1 bit	C	-	W	-	-	step	Low
4	Output Curtain	Reference movement			1 bit	C	-	W	-	-	up/down	Low
5	Output Curtain	Move to position 0..100%			1 byte	C	-	W	-	-	percentage (0..100%)	Low
6	Output Curtain	Slat position 0..100%			1 byte	C	-	W	-	-	percentage (0..100%)	Low
7	Output Curtain	Scene			1 byte	C	-	W	-	-	scene control	Low
8	Output Curtain	Position status 0..100%			1 byte	C	R	-	T	-	percentage (0..100%)	Low
9	Output Curtain	Slat status 0..100%			1 byte	C	R	-	T	-	percentage (0..100%)	Low
10	Output Curtain	Sun protection			1 bit	C	-	W	-	-	switch	Low
11	Output Curtain	Enable sun control			1 bit	C	-	W	-	-	enable	Low
12	Output Curtain	Sun protection position 0..100%			1 byte	C	-	W	-	-	percentage (0..100%)	Low
13	Output Curtain	Sun slat adj. 0..100%			1 byte	C	-	W	-	-	percentage (0..100%)	Low
14	Output Curtain	Safety operation 1			1 bit	C	-	W	-	-	alarm	Low
15	Output Curtain	Safety operation 2			1 bit	C	-	W	-	-	alarm	Low
16	Output Curtain	Status of operation			1 byte	C	R	-	T	-		Low

2 C /D 1 C, 1.008 D D

k

3 C . / 1 C, 1.007 D

3 C 1 C, 1.007 D

k

k

k

k

4 C , 1 C, 1.008 D D

		0 100%			
					k
					k
6	C	0 100%	1	C,	5.001 D
					k
7	C		1	C,	18.001 D C
					k
					k
					k
					k
					k

					k
8	C	0..100%	1	C, , L	5.001 D

k

9	C	0..100%	1	C, ,	5.001

k k

10	C		1	C,	1.001

k

11	C	.	1	C,	1.003

k

12	C	: / 0 100%	1	C,	5.001

k

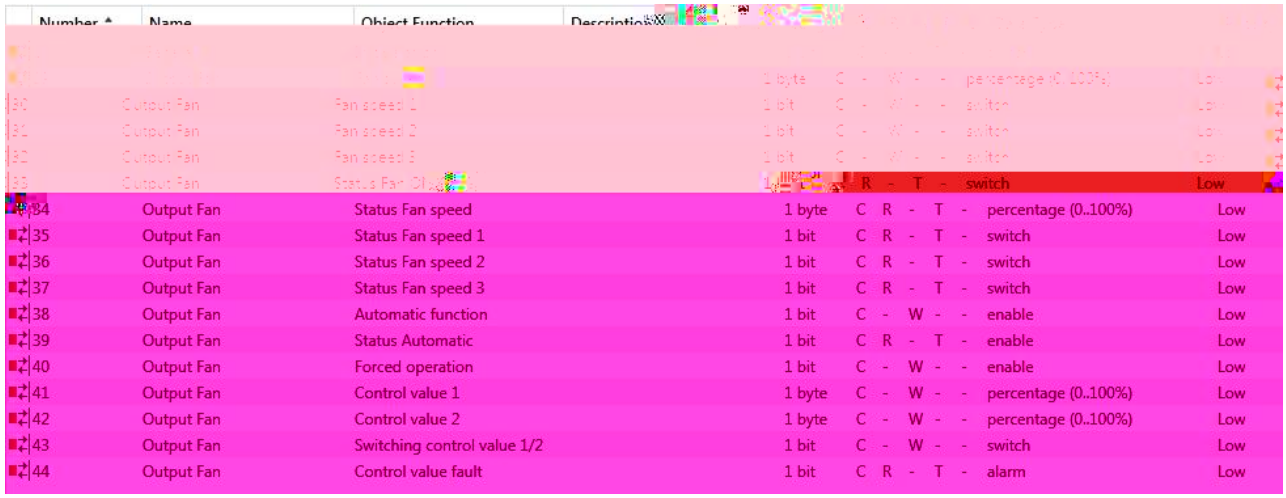
k

13	C	: . 0 100%	1	C,	5.001

k

14/15	C	1/2	1	C,	1.005 ◗ A
16	C		1	C, , ▮	◗

5.3.



					D
29			**1** **1**	**C,**	**1.001** D **5.001** D
k k k					
30		**1**	**1**	**C,**	**1.001** D
k k					

					k
31		2	1B	C,	1.001
32		3	1B	C,	1.001
33		/	1	C, ,	1.001
		k			k
34			1	C, ,	5.010 C
		k k k			
35		1	1	C, ,	1.001
		k k			
36		2	1	C, ,	1.001
37		3	1	C, ,	1.001
38		A	1	C,	1.003
		k k k			k k

39		A	1	C, ,	1.003
k					
40			1	C,	1.003
k k					
41		C C 1	1	C,	5.001
42		C 2	1	C,	5.001
k k					
43		1/2	1	C,	1.001
k					
44		C	1	C, ,	1.005 A
k					

k

5.4.

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
45	Output Valve	Heat/Cool mode status			1 bit	C	R	-	T	-	cooling/heating	Low
46	Output Valve	Control value fault			1 bit	C	R	-	T	-	alarm	Low
47	Output Valve											

45		**/C**	**1**	**C, , ,**	**1.100 /C**
k					
46		**C**	**1**	**C, , ,**	**1.005 A**
k k					
47/52		**, /C**	**1**	**C,**	**1.003**
k k					
48/53		**C , /C**	**1**	**C,**	**5.001**

			1		1.001
k k k					
49/54		, /C	1 1	C, ,	5.001 1.001
k					
50/55		, /C	1	C,	1.003
k					
51/56		, /C	1	C, ,	1.003
k k					

5.5.

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
57	Input 1	Switch			1 bit	C	-	W	T	U	switch	Low

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
1	General	In operation										

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
57	Input 1	Short, Switch			1 bit	C	-	W	T	U	switch	Low
58	Input 1	Long, Switch			1 bit	C	-	W	T	U	switch	Low
61	Input 1	Disable			1 bit	C	-	W	-	-	enable	Low

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
57	Input 1	Short, Switch			1 bit	C	-	W	T	U	switch	Low

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
1												

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
57	Input 1	Press, Scene			1 byte	C	-	-	T	-	scene control	Low
	Input 1	Release, Scene			1 byte	C	-	-	T	-	scene control	Low
61	Input 1	Disable			1 bit	C	-	W	-	-	enable	Low

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
1												
	Short, Scene				1 byte	C	-	-	T	-	scene control	Low
	Long, Scene				1 byte	C	-	-	T	-	scene control	Low

Number	Name	Object Function	Desc

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
57	Input 1	Object1-On/Off			1 bit	C	-	W	T	-	switch	Low
58	Input 1	Object2-Up/Down			1 bit	C	-	W	T	-	up/down	Low
59	Input 1	Object3-SceneControl			1 byte	C	-	-	T	-	scene control	Low
60	Input 1	Object4-Percentage			1 byte	C	-	-	T	-	percentage (0..100%)	Low
61	Input 1	Disable			1 bit	C	-	W	-	-	enable	Low

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
57	Input 1	Short, Delay mode			1 bit	C	-	-	T	-	switch	Low
58	Input 1	Long, Delay mode			1 bit	C	-	-	T	-	switch	Low
61	Input 1	Disable			1 bit	C	-	W	-	-	enable	Low

57			**1**	**C, , ,**	**1.001**
57	,		**1**	**C, , ,**	**1.001**
57	,		**1**	**C, , ,**	**1.001**
58	,		**1**	**C, , ,**	**1.001**
58	,		**1**	**C, , ,**	**1.001**
	k , ,				
58	,		**4**	**C, ,**	**3.007**

k

k

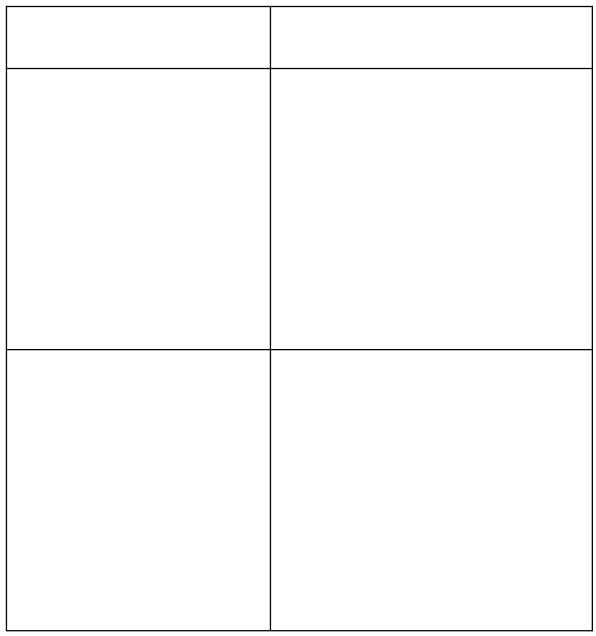
57	, 1 /2 /4 /1 /2		1 2	C,	1.001 2.001
57	, 1 /2 /4 /1 /2		4 1	C,	3.007 5.010
58	, 1 /2 /4 /1 /2		2	C,	7.001
58	, 1 /2 /4 /1 /2			C,	

k

57			1	C,	18.001	C
57	,		1	C,	18.001	C
57	,		1	C,	18.001	C
58	,		1	C,	18.001	C
58	,		1	C,	18.001	C

k k

k



k

k

57	/D , B		1	C, ,	1.008 D /
k					
58	/A , B		1	C, ,	1.007 D
k					
57	L		1	C,	5.010 D
k					
57/ 58/	- / - /D		1 1	C, , C, ,	1.001 D 1.008 D /

59/ 60/	- - -	C	1 1 1	C, C, C,	18.001 D C 5.001 D 5.010 D
	k				
57 57 58	, D , D , D		1 4 1	C, C, C,	1.001 D 3.007 D D 5.010 D
				k	
61	D		1	C,	1.003 D
		k			

5.6. D

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
87	LED 1	Status			1 bit	C	-	W	T	U	switch	Low
oo	LED 2	Status			1 byte	C	-	W	T	U	counter pulses (0..255)	Low

87		D	**1** **1**	**C, , ,**	**1.001** D **5.010** D
					k