

K-BUS

□

注意事项

1、请远离强磁场、高温、潮湿等环境；



远离强磁场



远离高温



防潮

2、不要将设备摔落在地上或使之受到强力冲击；



小心轻放

3、不要使用湿布清洁设备外壳；



4、请勿使用腐蚀性清洁剂；

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4

LED

86

KNX

4

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0 0

0 0

0 0

0 0 0

0 0

0

0 0 0 0

-- 0 0 0 0 LED 0 0 0 0 12V 8 0 0 0 0

0

0 0

0 0 0 0

0

0 / 0 0 0 0 0 0 0 0 0 0 0 0 0 0

0 0 0 knxprod 0 0 0 0 ETS (ETS5 0

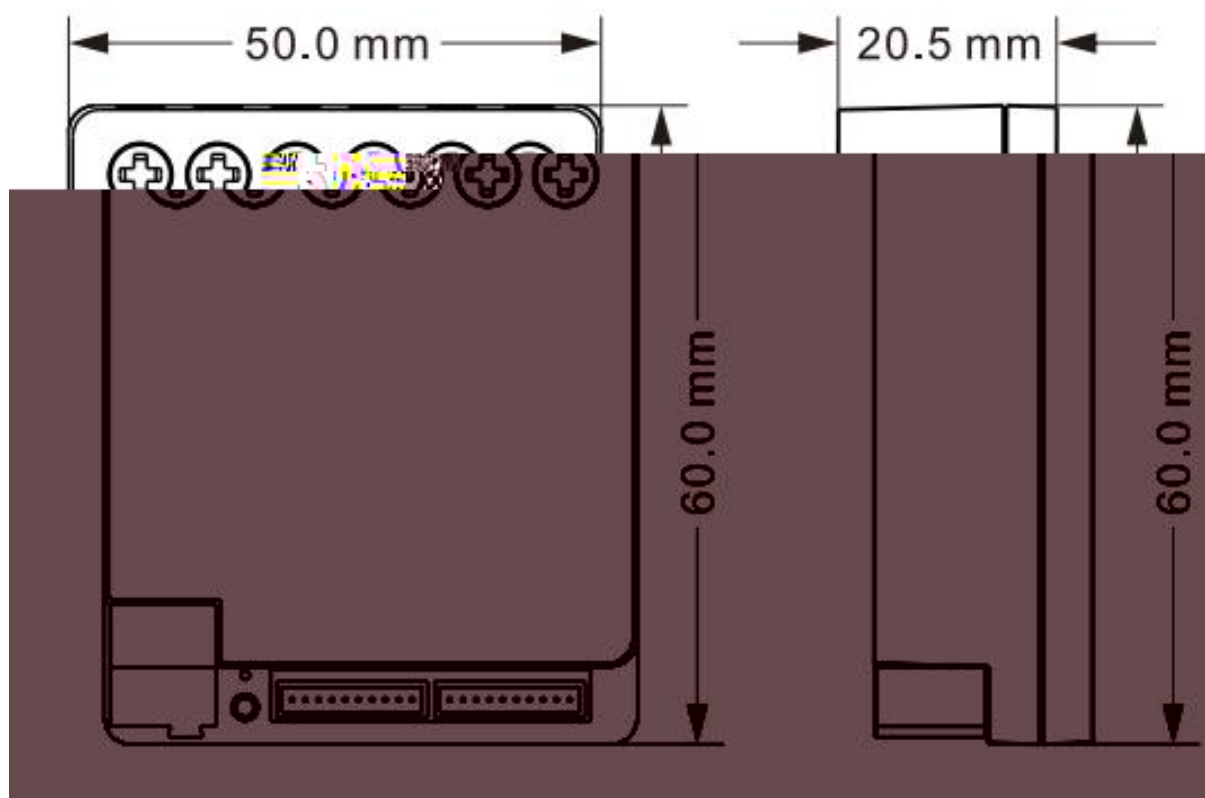
0 0 0 0 0 0 0 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0 0

			21-30V DC, 0.05A
			<45.8mA/24V, <36.0mA/30V
			<11.5mA/24V, <10.0mA/30V
			<1123.2mW
			<300.0mW
			<57.2mA
	U _n		230V AC 50/60Hz
	I _n		16A
			370A/1.25ms
			>5x10 ⁴
		12V 6mA	
	KNX		(0.8mm)
			0.2-2.5mm ² 0.4N-m
	/LED		≤5M
		LED	
			-5 °C ... + 45 °C
			-25 °C ... + 55 °C
			- 25 °C ... + 70 °C
			<93%, 0.05A
	86		

Multifunctional Actuator with Secure,4-Fold,Flush Mounted/1.0	101	250	250	250



CVS

K-BUS

KNX/EIB

KNX

4

1

1

ETS

KNX 4 KNX KNX

1.1.1 Multifunctional Actuator with Secure, 4-Fold, Flush Mounted > KNX Secure

KNX Secure

General

Outputs setting

UI setting

KNX Data Secure

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 deactivate security function. Detailed specialist knowledge is required.

Device certificate

The device certificate label stick called FDSK is attached beside the device, and must use for security function, make sure keep securely.

4.1 (1) "KNX Secure"

KNX KNX ETS 4.1(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 deactivate security function. Detailed specialist knowledge is required.

KNX

ETS

The device certificate label stick called FDSK is attached beside the device, and must use for security function, make sure keep securely.

FDSK

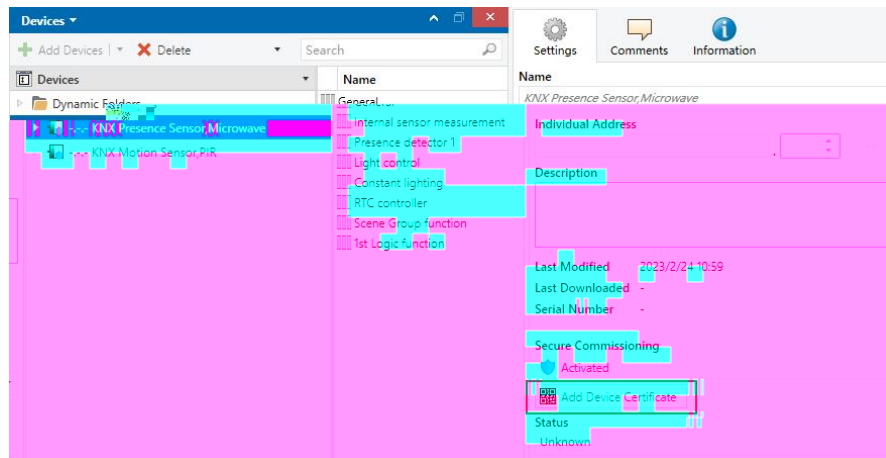
ETS

Secure Commissioning

Activated

KNX

8

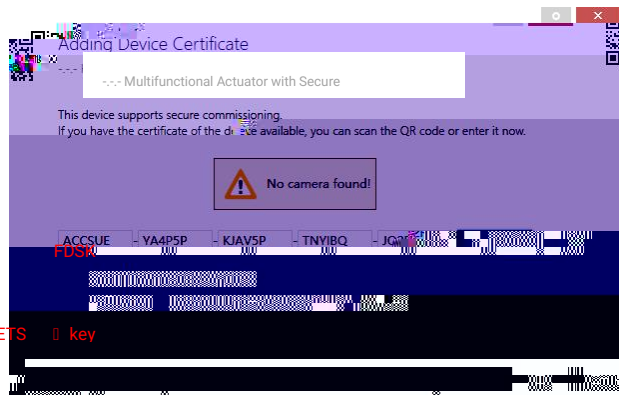


4.1(4) Add Device Certificate

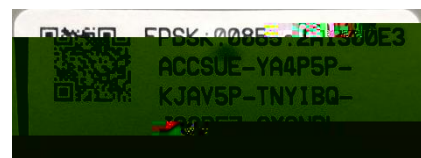
FDSK

FDSK ETS 4.1(5)

FDSK

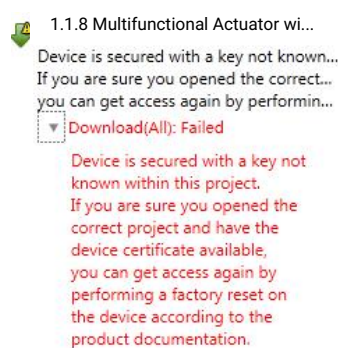


4.1(5)



4.1(6) "Yes" "Add Device Certificate" FDSK

4.1(6)



□ □ □ □ "Add Device Certificate" □ □ □ □ □ □ □ □ □ □



```

4.1(8)
.knxkeys

```



1

“General”

4.2

1.1.1 Multifunctional Actuator with Secure, 4-Fold, Flush Mounted > General

KNX Secure

Operation delay after bus recovery
[5..250]

5 s

General

Sending cycle of “In operation” telegram
[1..240,0=inactive]

0 s

+ Outputs setting

+ UI setting

4.2

“General”

operation”

“0”

“In operation”

“1”

Outputs config as 4.3

--- Multifunctional Actuator with Secure, 4-Fold, Flush Mounted > Outputs setting

KNX Secure General + Outputs setting ⚙️ UI setting	Outputs config as Switch/Curtain AC Output 1 & 2 function Switch Output 1 Switch ☐ Output 2 Switch ☐ Output 3 & 4 function Curtain AC Curtain 2 output is fixed for Output 3(Up/Open)& Output 4(Down/Close)
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1.1.1 Multifunctional Actuator with Secure, 4-Fold, Flush Mounted > Outputs setting

KNX Secure General - Outputs setting + ⚙️ Curtain 1-...	Outputs config as Curtain output (Dry contact) Curtain 1 output ☒ Curtain 1 output is fixed for Output 1(Up/Open)& Output 2(Down/Close) Curtain 2 output ☒ Curtain 2 output is fixed for Output 3(Up/Open)& Output 4(Down/Close)
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1.1.1 Multifunctional Actuator with Secure, 4-Fold, Flush Mounted > Outputs setting

KNX Secure General - Outputs setting	Outputs config as Fan control Fan output is fixed for 1level:1; 2level: 1level: 1&2&3 If Fan speed set to 1 or 2 level, Output 3 & 4 as switch output <--Attention
--	--

4.3 Channel configuration



GVS

K-BUS

KNX/EIB

KNX

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' Yŵ q^ Ÿ P CqY 8

[illegible]

3 **Output 1, Output 2** **Output 3**

1

0 **0** **0** **0** **0 0 0** **0** **0** **0**

11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

4

Output X Switch"

4.4.1

1

1.1.1 Multifunctional Actuator with Secure, 4-Fold, Flush Mounted > Outputs setting > Output 1

KNX Secure

General

Outputs setting

Output 1...

UI setting

Description (max 30char.)

Work mode of the channel is

If bus recovery, output status is

If bus failure, output status is

After downloading,output status is

Set the reply mode of switch status

Object value of switch status

Switch actuator

Heating actuator(without controller)

Unchange

Unchange

Contact open

As bus recovery

Respond after read only

Respond after change

0=contact close;1=contact open

1=contact close;0=contact open

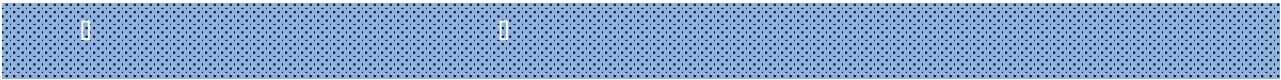
4.4.1(1)

30

Switch Actuator

"Switch actuator"

Heating actuator without controller 4.5



"Unchange"

"Contact open"

"Contact close"

"As before as bus fail"



"Unchange"

"Contact open"

"Contact close"



"Contact open"

"As bus recovery" "If bus recovery, contact is"

"Contact close" 1 0

"Output X: Function"

4.4.1(2)

1.1.1 Multifunctional Actuator with Secure, 4-Fold, Flush Mounted > Outputs setting > Output 1-... > O1: Function

KNX Secure

General

Outputs setting

Output 1-...

O1: Function

UI setting

Function of "Time"

Function of "Logic"

Function of "Scene"

Function of "Forced"

Function of "Operation hours counter"

4.4.1(2) Output X: Function

4.4.1(2)“Output X: Function”

“Function of “Time””

4.4.2

“Enable time function”

1.1.1 Multifunctional Actuator with Secure, 4-Fold, Flush Mounted > Outputs setting > Output 1-... > O1: Time

KNX Secure

General

Outputs setting

Output 1-...

O1: Function

O1: Time

UI setting

Type of time function

Delay for switch on(contact close)
--[0..240]

Delay for switch off(contact open)
--[0..240]

Delay

0 min

0 s

0 min

0 s

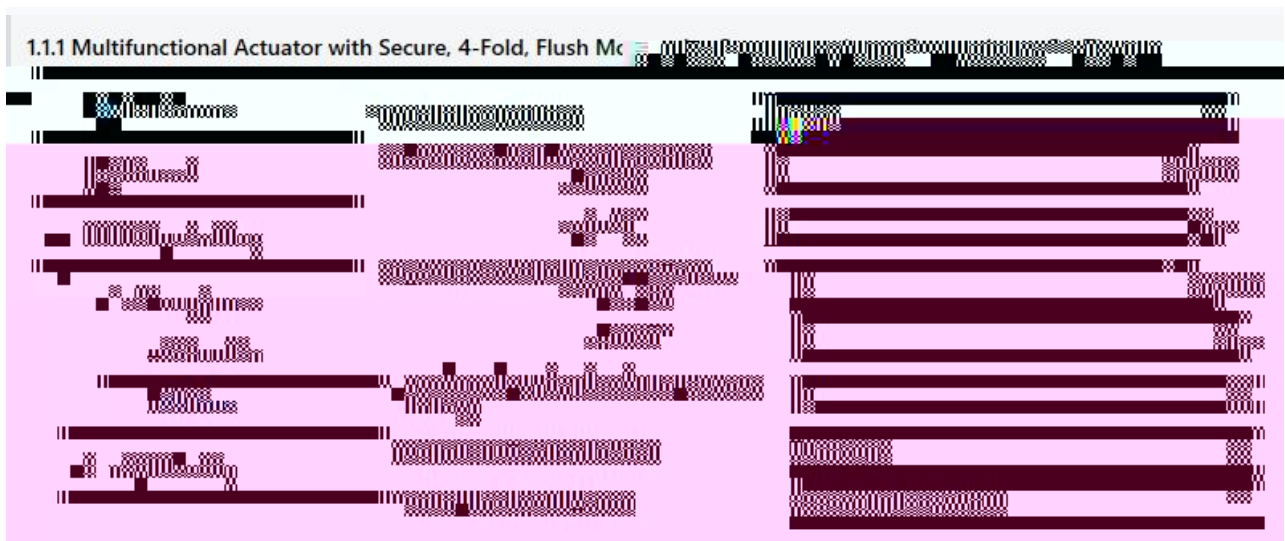
4.4.2

Output X: Time - Delay

“ ” 4.4.2 “Delay function”



“Type of time function” “Flashing” 4.4.2.2



4.4.2.2 Output X: Time - Flashing

Flashing “Flashing function” “Duration

of switch on” “Duration of switch off”



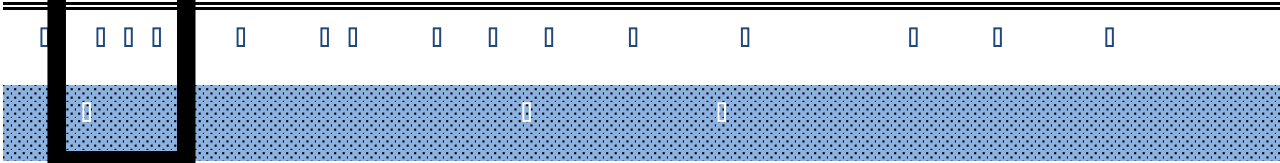


K-BUS

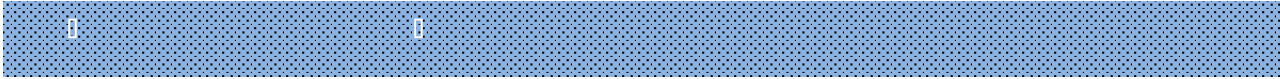
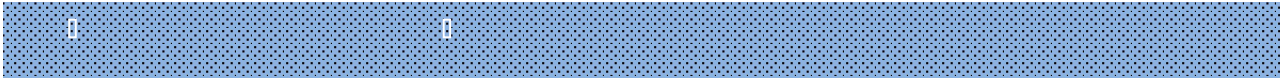
KNX/EIB

KNX

4



1...255 0 /



// //
// //
// //

“Start with ‘1’ Stop

“Type of time function” “Staircase” 4.4.2.3

1.1.1 Multifunctional Actuator with Secure, 4-Fold, Flush Mounted > Outputs setting > Output 1-... > O1: Time

KNX Secure

General

Outputs setting

Output 1-...

Type of time function

Duration of staircase lighting

Control mode of staircase lighting

During lightening, if no reverse telegram

Staircase

1 min

0 s

Start with "1", Stop with "0"

Restart duration of staircase lighting

O1: Function

O1: Time

4.4.2.3 Output X: Time - Staircase

“Staircase function”

//

//

//

“Start with ‘1’, Stop with ‘0’” “1” “0”

“Start with ‘1’, no reaction with ‘0’” “1” “0”

“Start with ‘0/1’, can not be stop” “0” “1” “0” “1” “0” “1” “0”

“Start with ‘1’, OFF with ‘0’”, “1” “0”

16

16

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16

4.4.1(2) "Output X: Function" "Function of "Logic" "

"Enable" 4.4.3



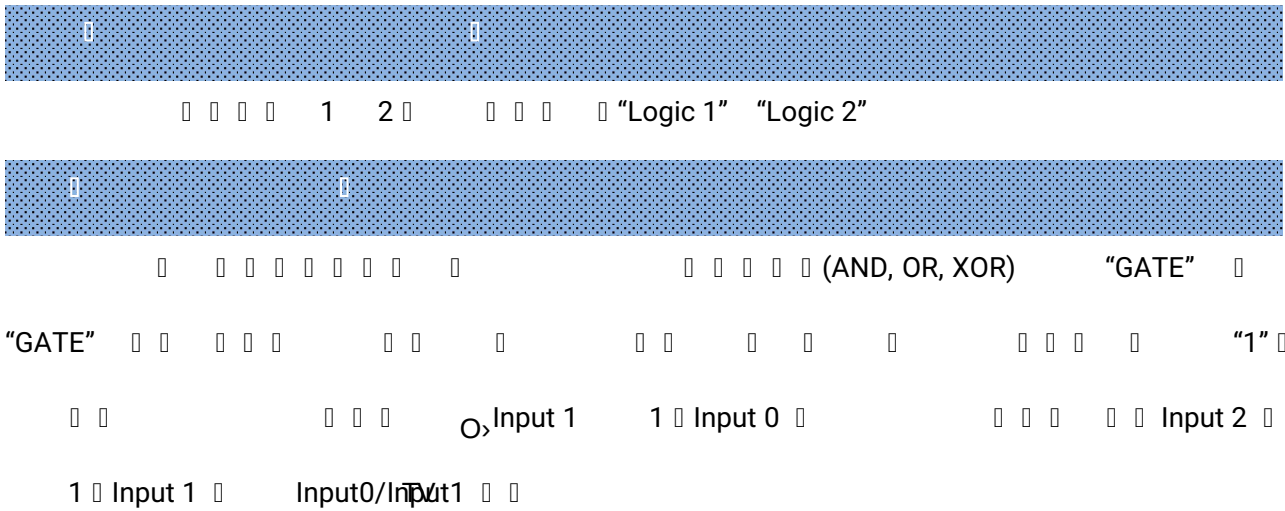
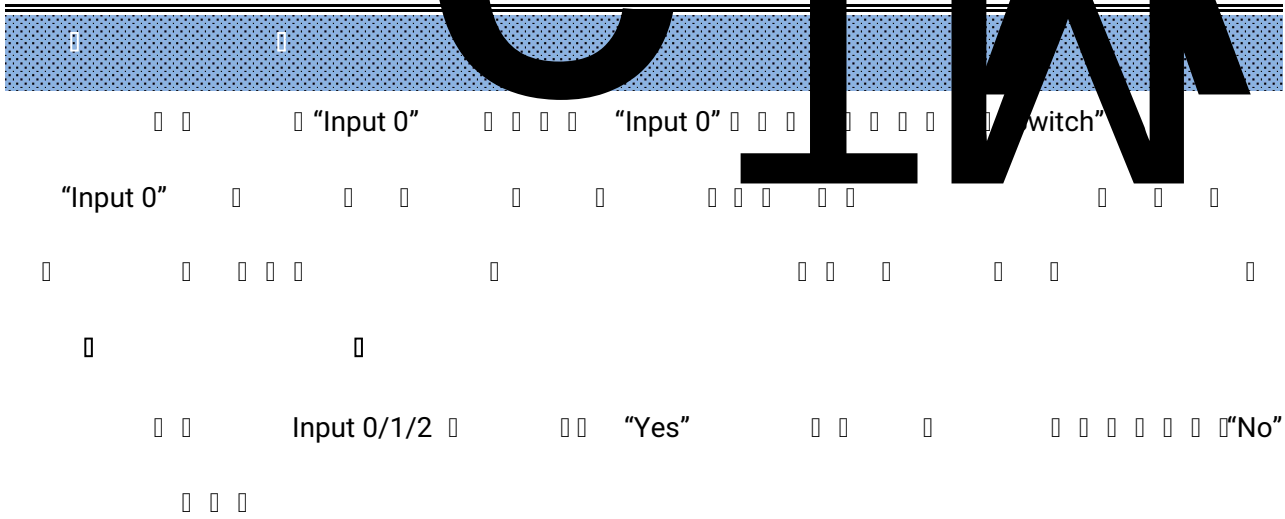
4.4.3 Output X: Logic

2

"Switch"

"1" "0" "Logic 1"

"Switch" "Logic 2"



Input0(Switch
)

Input1

Result of Input
0/1

Input2

Output

AND

0

0

0

0

0

0

1

0

1

0

1

1

1

0

0

0

0

1

1

1

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OR

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0

1

1

GATE

0

Closed

Closed

open

0

Open

0

Open

0

1

Closed

Closed

1

Open

1

Open

1

1 "Input 1"

"Switch"

"Input 2"

2

3

4 (GATE)

Input1

Input0

Input2

□ □ □ □

□ □ □ □

4.4.1(2) "Output X: Function"

□

"Function of "Scene" " □

"Enable"

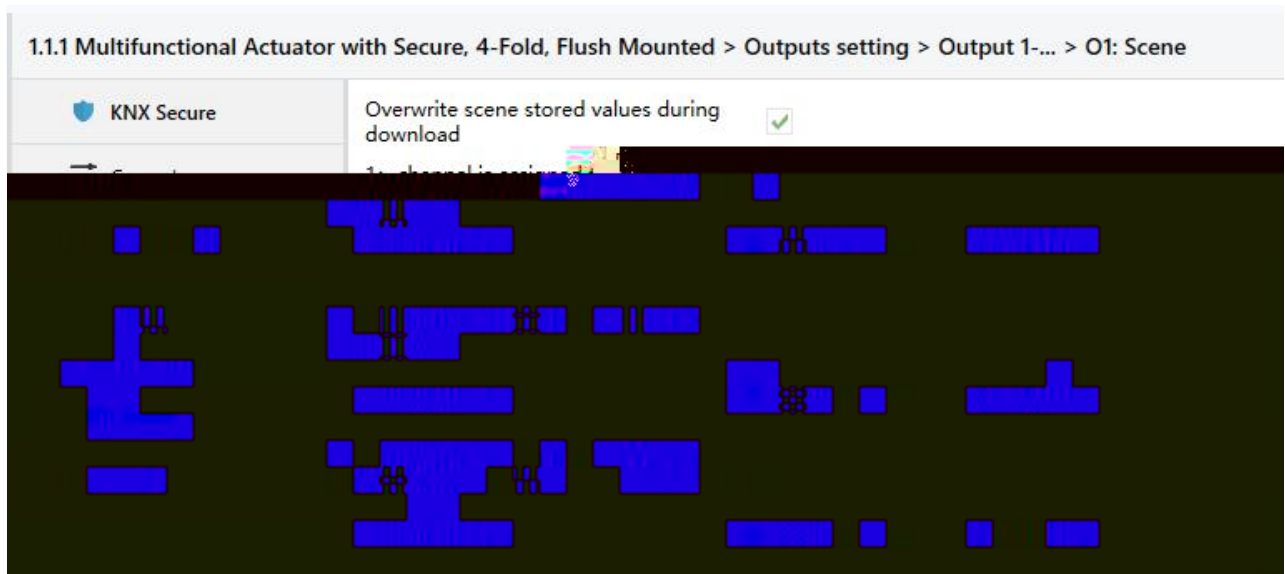
□

4.4.4

□ □

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□ □



4.4.4

□ □ □ □ □ Output X: Scene □



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4.4.1(2) "Output Function"

□

"Function of "Forced" "

"Enable"

□

4.4.5

□

1.1.1 Multifunctional Actuator with Secure, 4-Fold, Flush Mounted > Outputs setting > Output 1-... > O1: Function

KNX Secure

General

Outputs setting

Output 1-...

O1: Function

UI setting

Function of "Time" ☐

Function of "Logic" ☐

Function of "Scene" ☐

Function of "Forced" ☒

Force operation type

1Bit

2Bit

Output status if forced operation

Unchange

Function of "Operation hours counter" ☐

4.4.5 "Enable" Output X Forced t3

□ □ □ "Forced output" □

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J'LYB

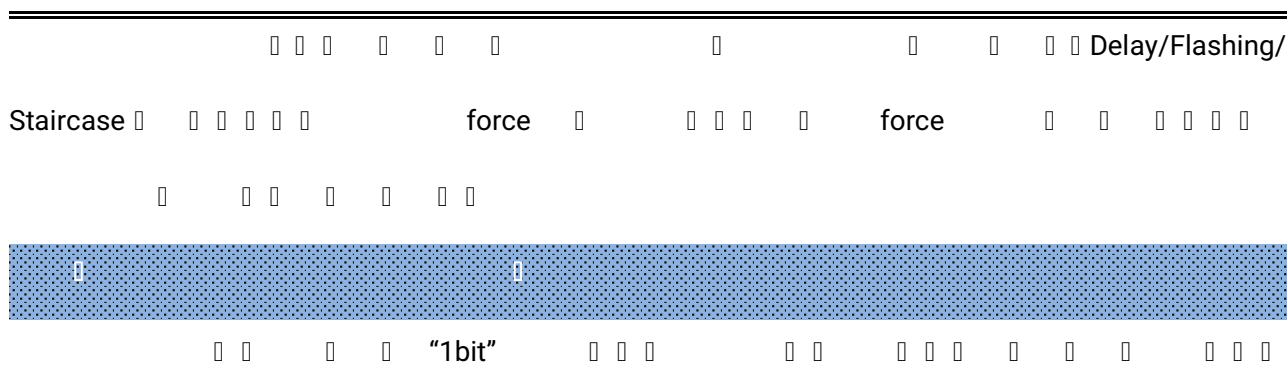
"

□ □ □ □

CV3 L.. 007

J

' 1€



Unchange

Contact open

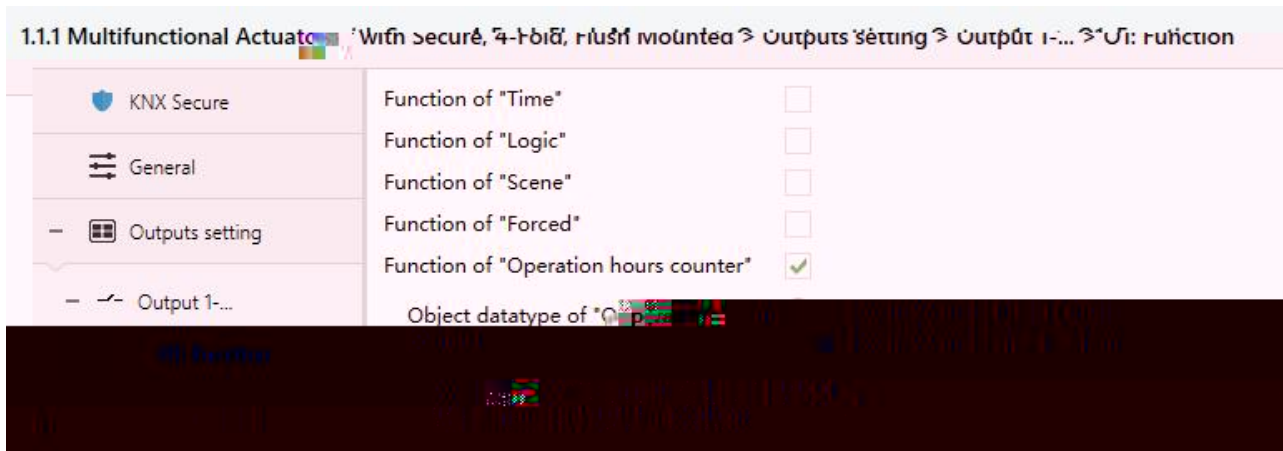
Contact close

4.4.1(2) "Output X: Function"

"Function of "Operation

hours counter" " "Enable"

4.4.6



4.4.6



2 byte Value in h (DPT 7.007)

2 byte 4 byte Value in s (DPT 13.100)

4 byte



0

1-100

1

100

Object datatype of "operation hours counter"

2byte

4byte

s

1.1.1 Multifunctional Actuator with Secure, 4-Fold, Flush Mounted > Outputs setting > Output 1-...

KNX Secure	Description (max 30char.)	
General	Work mode of the channel is	☐ Switch actuator ☒ Heating actuator(without controller)
Outputs setting	Valve type	☒ Normal (de-energised closed) ☐ Inverted (de-energised open)
Output 1-...	If bus failure, output status is	Unchange
UI setting	If bus failure, valve position	0%[Closed]
	PWM cycle time for continuous [60..65535]	120
	Control type	☐ 1bit (on-off control or PWM) ☒ 1byte (Continuous)
	Reply the status for continuous control	No reply
	Reply the status of the actuator state	Yes - 1 res, 1 de-energised, 0 de-energised open
	Function of monitoring	☒
	Cyclic monitoring control value [0..65535]	120
	Valve position during fault	Unchange
	Report fault status	☒
	Function of forced operation	☒
	Valve position during forced operation	Unchange

4.5(2) Output X Heating actuator(without controller)

Unchange

40%

60%

monitor

2

"AC-motor",

"Output Curtain"

4.6.1

1.1.1 Multifunctional Actuator with Secure, 4-Fold, Flush Mounted > Outputs setting > Curtain 1-...

KNX Secure

General

Outputs setting

Curtain 1-...

C1: Drive

C1: Auto.

C1: Scene

C1: Safety

UI setting

Description (max 30char.)

Config channel function as

Motor type

If bus recovery, position is

If bus failure, position is

After reference movement, Position is

Position of slat after arriving on low end position

When blind is under end position, up/down object function is

Set response mode for position

☒ Venetian Blind ☐ Shutter

AC-motor

Unchange

Unchange

Disable

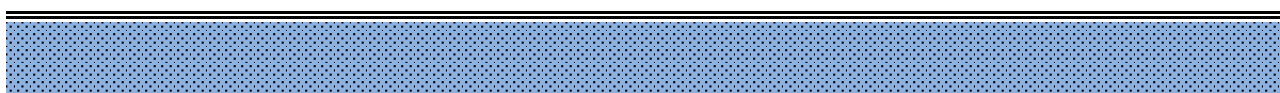
100 %

☒

☐ Respond after read only ☒ Respond after change

4.6.1





“Unchange”

[illegible]

☐ "Down" ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

“Stop”

□ □ □ □ □ □

[illegible][illegible]

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☐ ☐ ☐ ☐ ☐ ☐



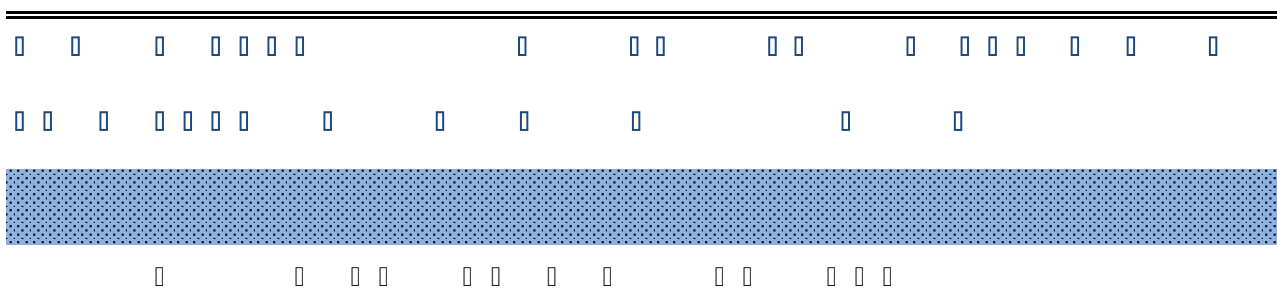
“Unchange”

[illegible]

☐ "Down" ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

“Stop”

0 **0** **0 0** **0 0 0** **0 0** **0** **0 0** **0 0 0** **0 0**



“Disable”

“No reaction” “reference movement” ‘0’

‘1’

“Move to saved position” “1”

"Curtain: Drive"

4.6.1.1

1.1.1 Multifunctional Actuator with Secure, 4-Fold, Flush Mounted > Outputs setting > Curtain 1-... > C1: Drive

KNX Secure

General

Outputs setting

Curtain 1-...

C1: Drive

C1: Auto.

Total travel time [20..50000]

600

*0.1s

Delay time from switch-on to moving [0..200]

0

*10ms

Duration of Slat adjustment [10..250]

20

*10ms

Total travel time of Slat 0..100% in [10..250]

100

*10ms

Pause on change in direction [5..255]

50

*20ms

Additional travel time in upward direction [0..255]

0

*0.1s

Venetian Blind

1.1.1 Multifunctional Actuator with Secure, 4-Fold, Flush Mounted > Outputs setting > Curtain 1-... > C1: Drive

KNX Secure

General

Outputs setting

Curtain 1-...

Total travel time [20..50000]

600

*0.1s

Delay time from switch-on to moving [0..200]

0

*10ms

Pause on change in direction [5..255]

50

*20ms

Additional travel time in upward direction [0..255]

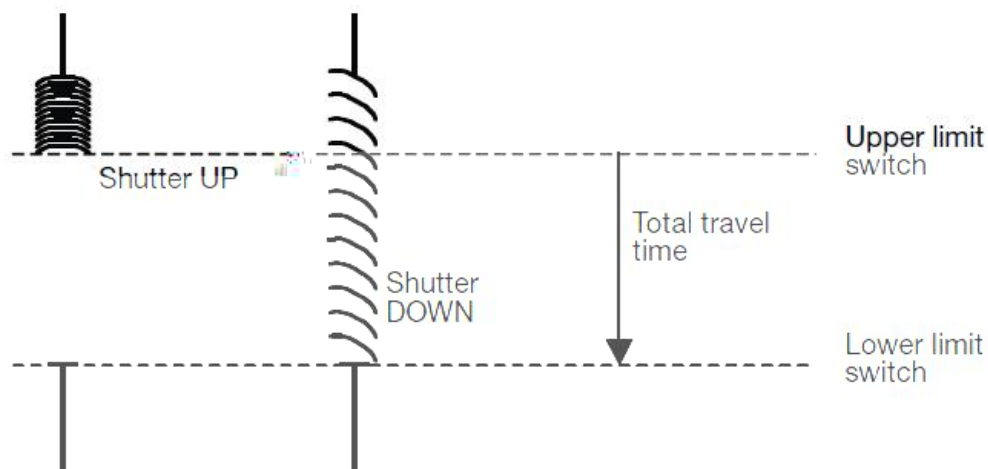
0

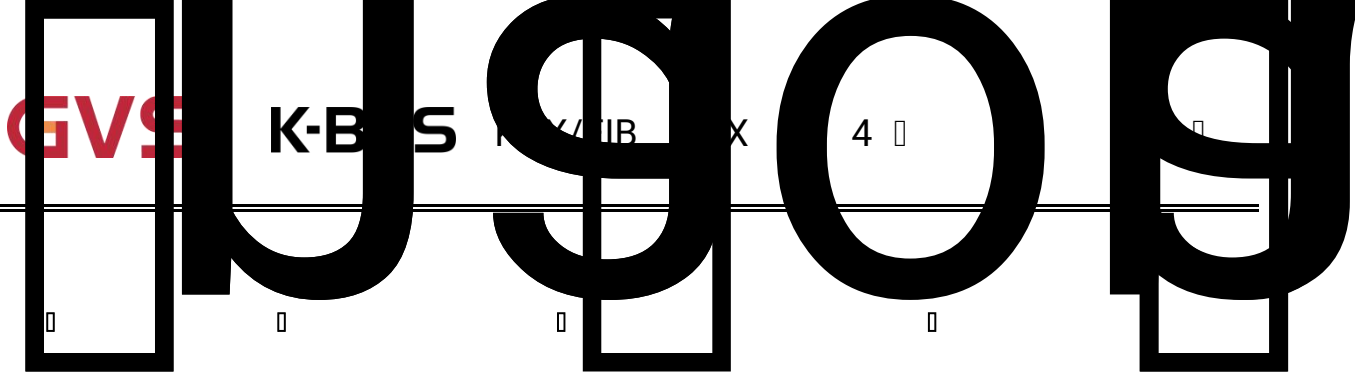
*0.1s

Shutter

4.6.1.1







“Enable auto. control”

//

//

“Enable auto. control” 0

“Enable auto. control” 1

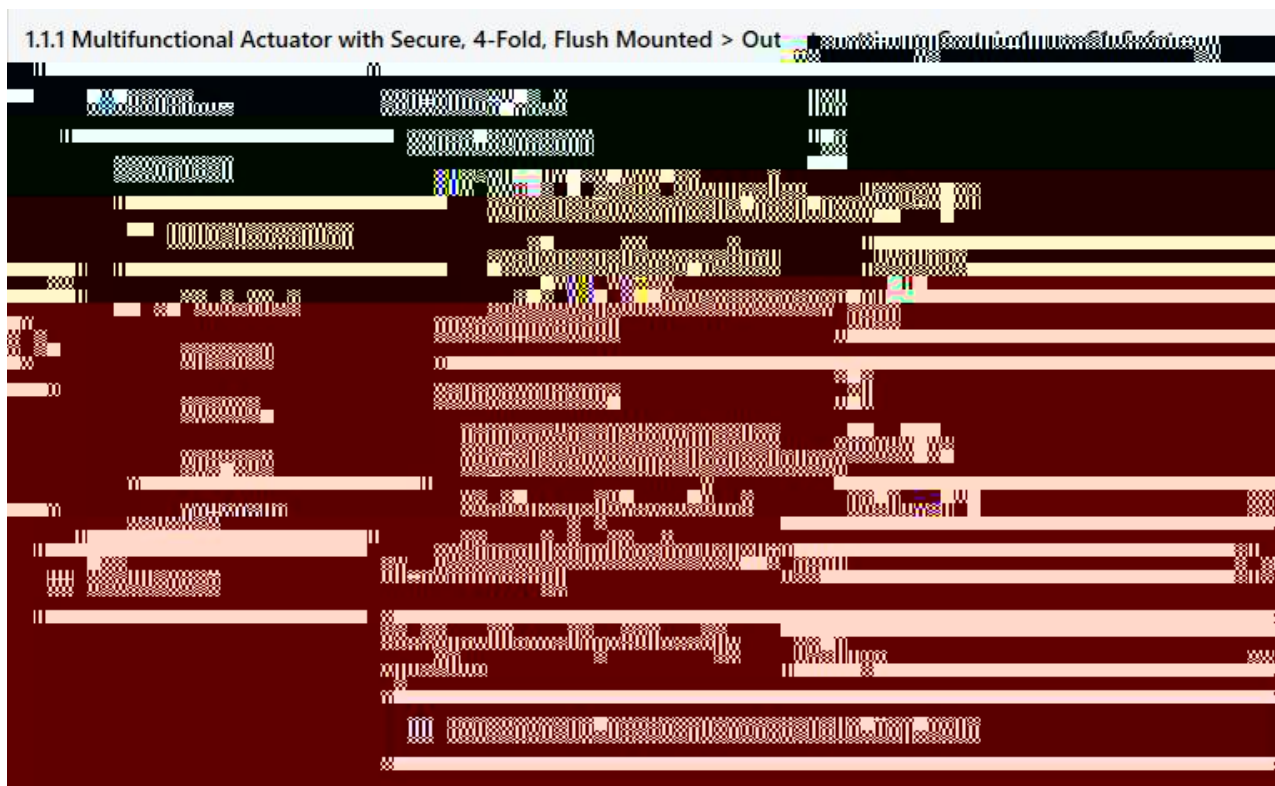
“Enable auto. control”

“yes”

“ Enable auto. control”

"Curtain: Safety"

4.6.1.4



4.6.1.4

Curtain

Safety



"Safety operation 1/2"



" "

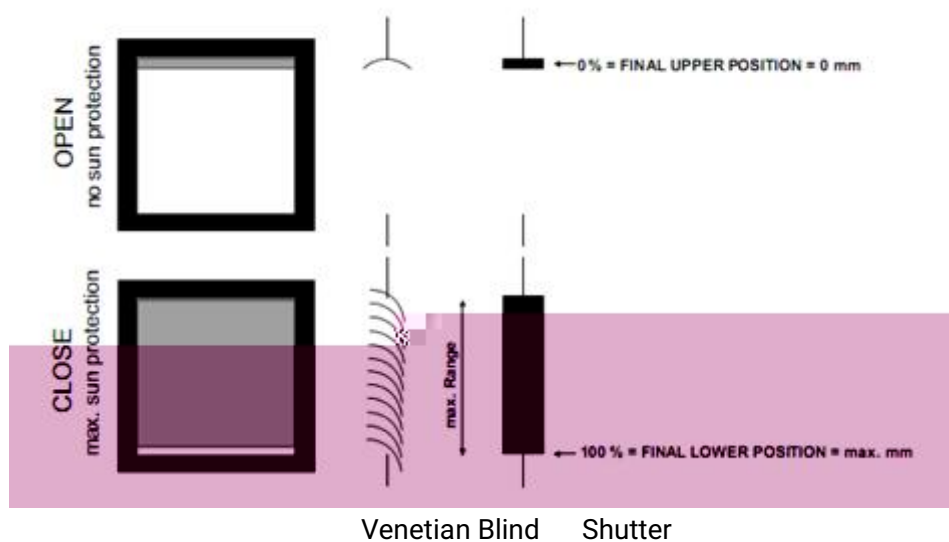
"Safety operation 1/2"

"0"

"Shutter" "Venetian Blind"

"Shutter" "Shutter"

"Shutter" "Venetian Blind"



Venetian Blind Shutter

"Shutter" "Venetian Blind" ()

2

2 AC

Dry contact-motor

4.7

1.1.1 Multifunctional Actuator with Decore, 4-föld, Flush Mounted > Outputs setting > Curtain 1-...

KNX Secure General Outputs setting Curtain 1-... C1: Drive C1: Auto. C1: Scene C1: Safety Curtain 2-... UI setting	Description (max 30char.) Config channel function as Motor type Drive pulse time [1..50] Drive type If bus recovery, position is Failure, position is After reference movement, Position is Position of slat after arriving on lower end position When blind is under end position, up/down object function is Set response mode for position	Venetian Blind Shutter Dry contact-motor 1 *100ms Three-wire Unchange Unchange Disable 100 % ☒ Respond after read only Respond after change
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4.7 Output Curtain Dry contact



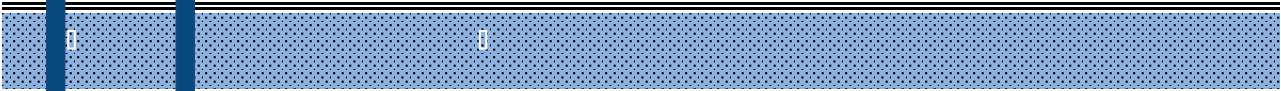
Dry contact-motor

1

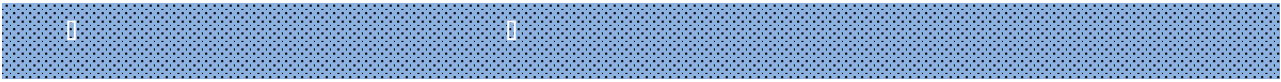


K-BUS KNX/EIB KNX

4 0 0



0 0 0 0 0 0 0 0 0 0 0 0



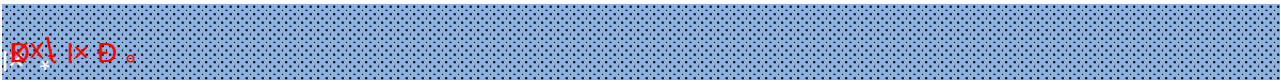
0 0 0 0 0 0 0 0 0 0 0 0

Unchange: 0 0

OFF 0 0 0 0

ON 0 0 0 0

As before as bus fail 0 0 0 0 0 0



NK vû K

0=Force/1=Cancel "Forced operation" "0" "1"

1=Force/0=Cancel "Forced operation" "1" "0"

Unchange

OFF

ON

4.7.2.1

None

Switch delay ON "Delay time

[1..65535]*0.1s" "Fan speed" "1"

Minimum time

"Minimum time[1..65535]s"

None

Switch delay OFF "Delay time

[1..65535]*0.1s"

Minimum time

"Minimum time[1..65535]s "

1...65535

1...65535

KNX/E

1=Auto/0=Cancel

Automatic function

1

0

value

0

10

50

60

+

40

-

0 0 0

40~60

0 0

0 0 0

0 0

0 0

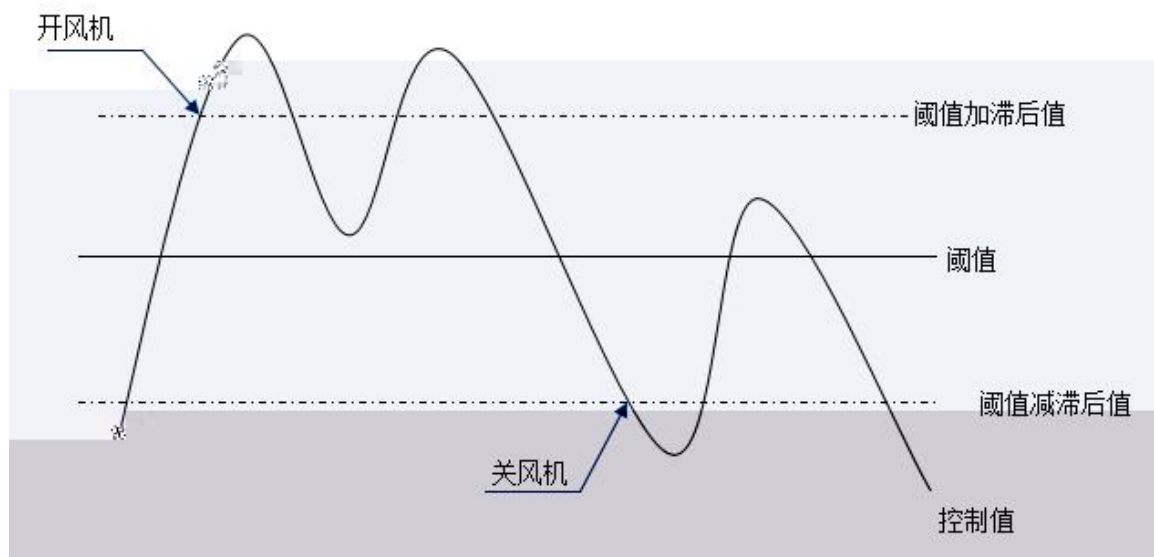
40

0 0

0 60

0

0 0



0

0 0

0 0 0



0

0 0 0 0

0 0 0

0 0

0 0 0

1

0

0 0 0 0 0

0

0 0 0 0 0

0 0 0

2

0

0 0 0 0 0

0

0 0 0 0 0

0 2

0 0 0 0

0

0 0 0

Latest value 0 0

0

0

0 0 0

Control value with switching object 0 0

0 0 0

0 0 Switching control value1/2 0

0 0

0 0 0

0 0

1 0

1

2

0 0

0 0

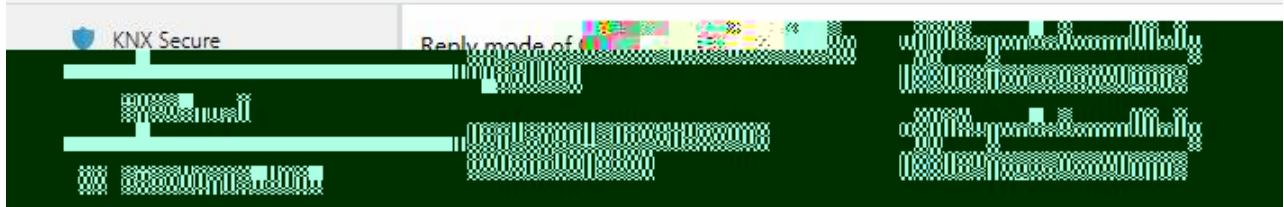
0 0

0 0

0

Fan: Status 4.8.1.2

1.1.1 Multifunctional Actuator with Secure, 4-Fold, Flush Mounted > Outputs setting > Fan-... > F: Status



4.8.1.2 Fan: Status



Respond after read only

Status Fan ON/OFF

Respond after change Status

Fan ON/OFF



Status Automatic 1 0

Respond after read only

Status Automatic

Respond after change Status

Automatic

1.1.1 Multifunctional Actuator with Secure, 4-Fold, Flush Mounted > Outputs setting > Fan-...

KNX Secure

General

Outputs setting

Fan-...

F: Auto.

F: status

Output 3-...

Output 4-...

UI setting

Fan type

☐ One level
 ☒ Multi-level

Fan speeds on 2 limit

☒

Fan operation

☐ Changeover switch
 ☒ Step switch

Delay between fan speed switchover [50..5000]

500

ms

When bus failure, fan speed is

Unchange

When bus recovery, fan speed is

Unchange

After downloading fan speed is

OFF

Object value for fan speed

Object datatype of 1byte fan speed

☐ Percentage (DPT_5.001)
 ☒ Fan stage (DPT_5.100)

Object value for Fan speed 1

33

%

Object value for Fan speed 2

67

%

Object value for Fan speed 3

100

%

Forced operation function

☒

Forced operation on object value

0=Force/1=Cancel

☐ 1=Force/0=Cancel

Limitation on forced operation

Unchange

Auto. operation function

☒

Obj. "Switch speed x" 1bit function

☐

Delay time for function OFF [0..65535]

0

*0.1s

Starting characteristic of fan

☒

Switch on over fan speed

☐

4.8.2

2

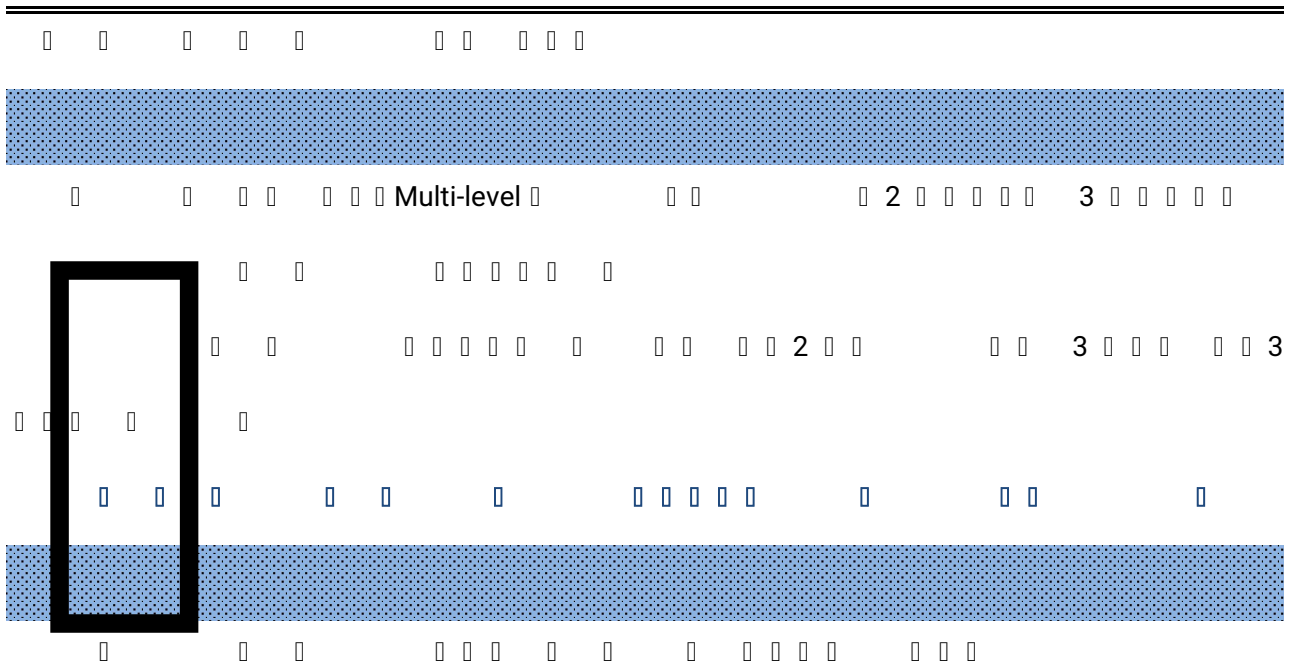
3

2

3

2

1

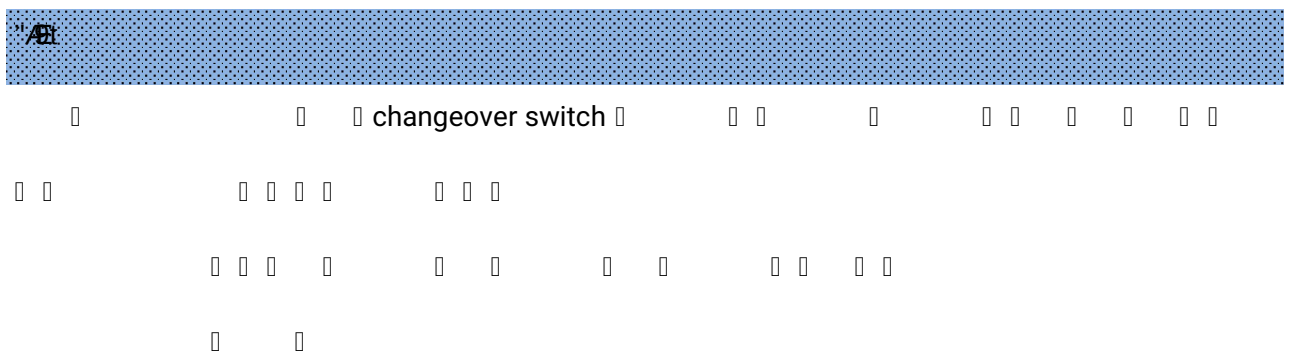


Changeover switch

7f J

Step switch

Output 1&2&3



OFF

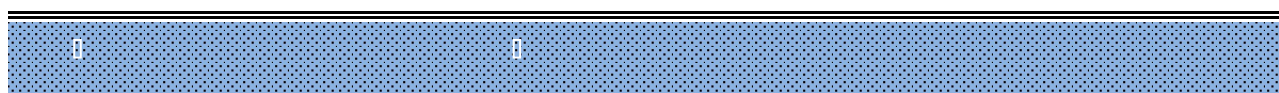
1 2 3 1 2 3

OFF

1 2 3 1 2 3

As before as bus fail

1byte



Fan speed--1byte

0



,1bit Forced Operation



0=Force/1=Cancel Forced Operation 0 1

1=Force/0=Cancel Forced Operation 1 0



Unchange

1 0 0 0 0 0 1 0

1, off ☐ ☐ ☐ ☐ ☐ ☐ 1 ☐ ☐

2 □ □ □ □ 2 □

2, 1 □ □ □ □ 1 2 □

2, 1, off ☐ ☐ ☐ ☐ ☐ 1 ☐ 2 ☐ ☐

3 3

3, 2 □ □ □ □ 3 2 □

[illegible]Off ☐ ☐ ☐

1

0 **0** **0 0** **0 0 0** **0** **0 0** **0** **0 0 0 0** **0 0** **0**

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

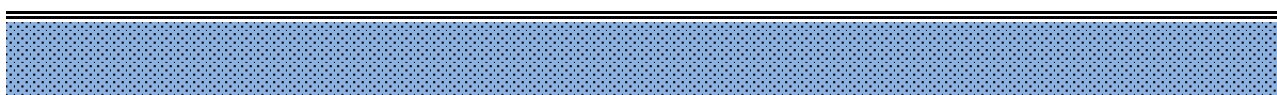
0 **0** **0 0** **0** **0 0 0 0** **0** **0 0** **0** **0** **0 0**

□ □ □ □ □ □ □ □ □ □ □ □ □ □ □

[illegible]

□ □ □ □ □

4.7.2.1



1bit Fan speed 1 , Fan speed 2 Fan speed 3

1 0

ON/OFF



speed1 OFF



2

3

4.8.2

Auto. operation function

Enable

4.8.2.1

1.1.1 Multifunctional Actuator with secure Push Mounted Outputs setting Fan: Auto.

	On/Off	Autoperation on object value	0=Auto/1=Cancel		1=Auto/0=Cancel
	General	State of Autoperation after startup			
	Output setting	Automatically enable autoperation			
		Enable autoperation after (0.0000)	100		min
	Fan	Threshold value OFF<->speed 1 (0.100)	30		%
	Fan	Threshold value speed 1<->speed 2 (0.100)	60		%
	Fan	Threshold value speed 2<->speed 3 (0.100)	80		%
	Fan	Hysteresis threshold value in +/- (0.50)	10		%
	Fan	Minimum time in fan speed (0.0000)	10		s
	Fan	Number of control value		1	2
	Fan	Monitoring control value			
	Fan	Monitoring period of control value (0.0000)	120		s

1.1.1 Multifunctional Actuator with secure Push Mounted Outputs setting Fan: Auto.

1.1.1 Multifunctional Actuator with secure Push Mounted Outputs setting Fan: Auto.

4.8.2.1

Fan: Auto.

0=Auto/1=Cancel

Fan Automatic ON/OFF

0

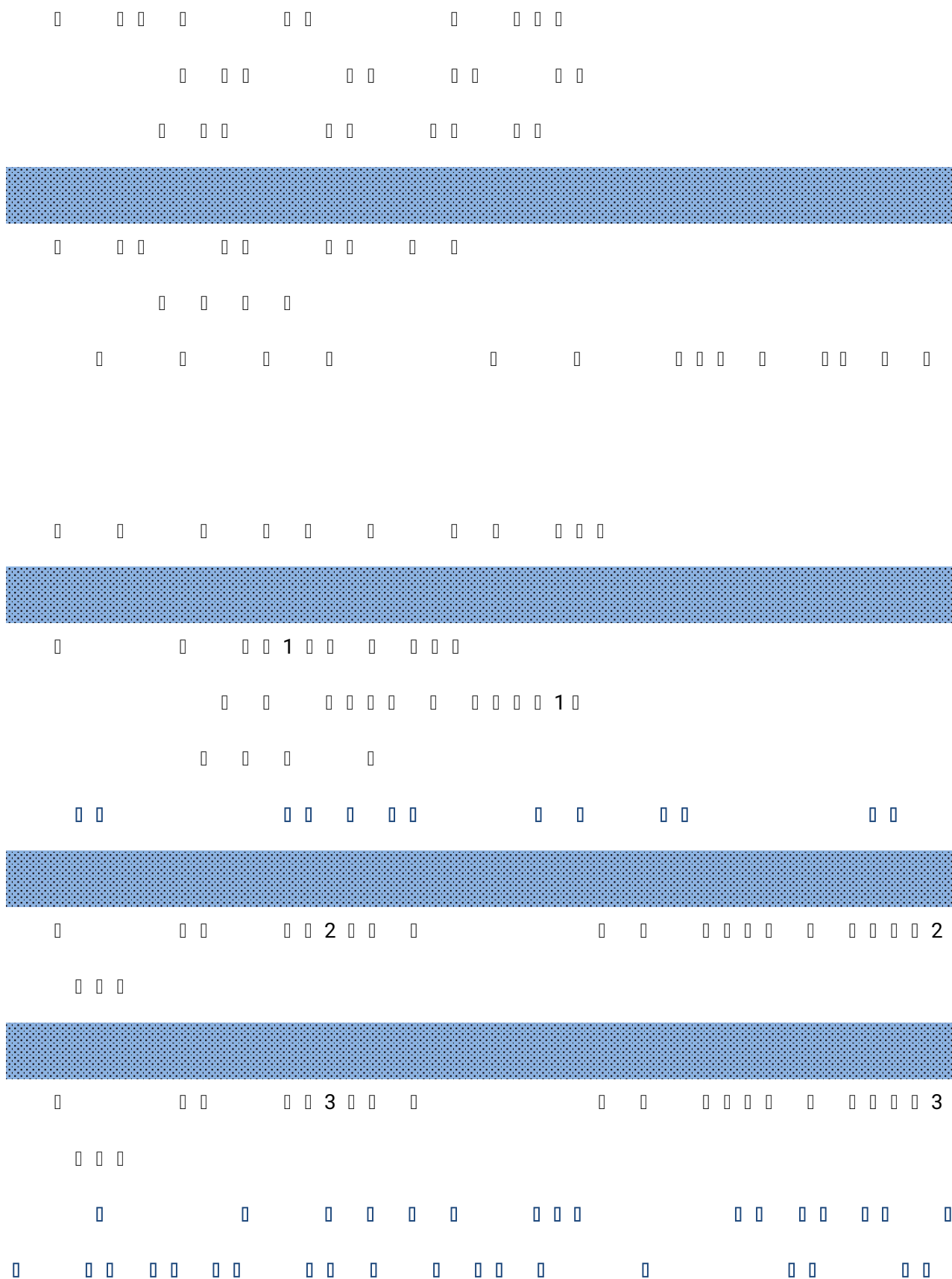
1

1=Auto/0=Cancel

Fan Automatic ON/OFF

1

0



2 <-> 3 30%

15%

OFF

OFF 25% 10%+15% 2 25% 20% 30%

1

3

3 14% <30%-15% 1 14% 10% 20%

2

2

OFF <-> 1 10%

1 <-> 2 40%

2 <-> 3 70%

5%

OFF

OFF 15% 10%+5%

41% 2 41% 40% 70%

1

39% 1 39% 10% 40%

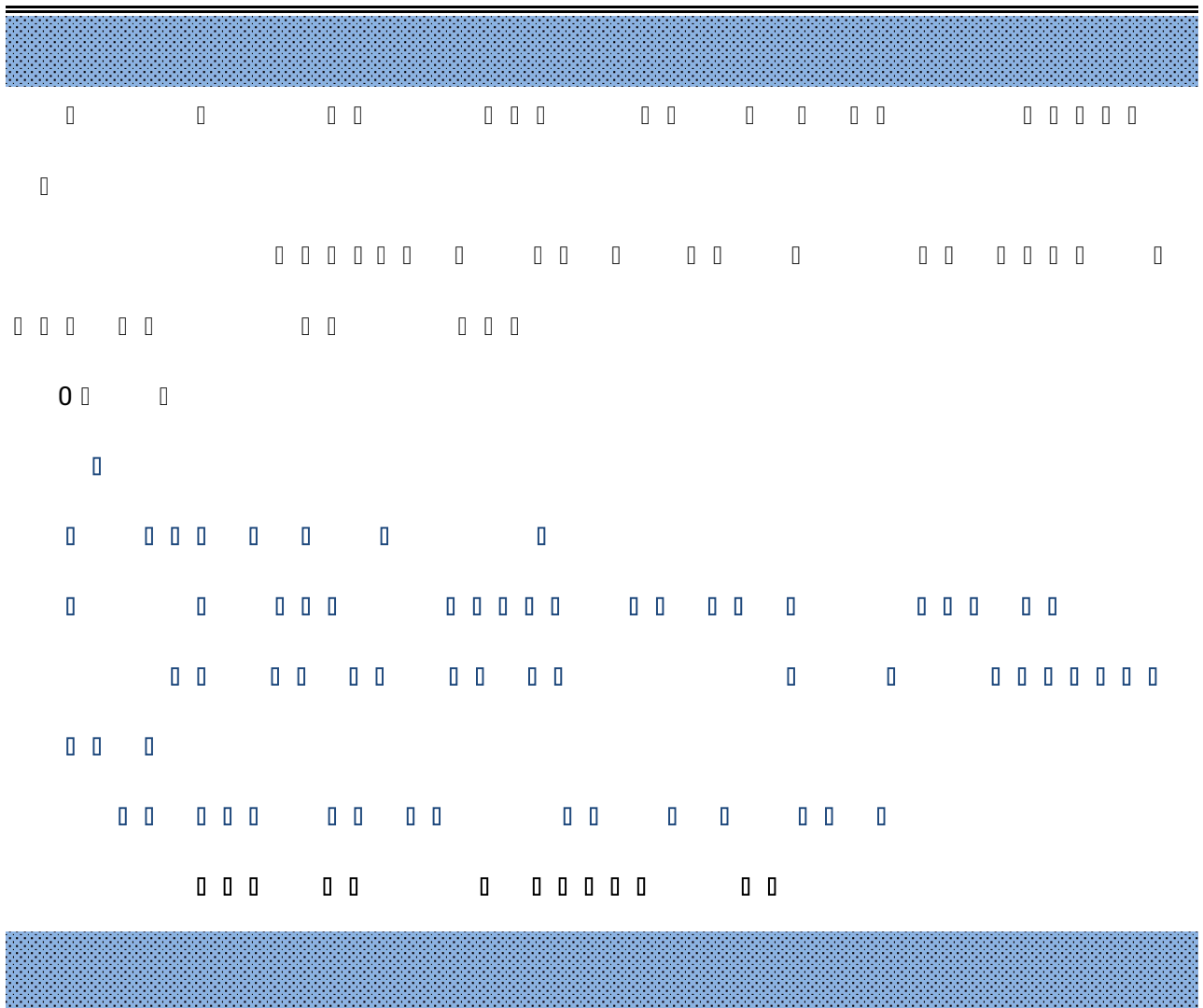
3

3 64% <70%-5%

39% 1 39% 10% 40%

2

3 0



4.8.1.1 "Number of control value"

1.1.1 Multifunctional Actuator with Secure, 4-Fold, Flush Mounted > Outputs setting > Fan-... > F: Status

KNX Secure

General

Outputs setting

Fan-...

F: Auto.

F: Status

Output 3-...

Output 4-...

UI setting

Reply mode of Obj. "Status Fan ON/OFF"(1bit)

Respond after read only

Respond after change

Reply mode of Obj. "Status Automatic"(1bit)

Respond after read only

Respond after change

Reply mode of Obj. "Status Fan speed x"(1bit)

Respond after read only

Respond after change

Reply mode of Obj. "Status Fan speed"(1byte)

Respond after read only

Respond after change

Status feedback for fan speed

Status value for Fan speed 1

33

%

Status value for Fan speed 2

67

%

Status value for Fan speed 3

100

%

4.8.2.2

Fan: Status

Respond after read only

Status Fan ON/OFF

Respond after change

Fan ON/OFF

6 1 1 W T S R H E J X I V

Status Automatic

Respond after change

Automatic



1bit Status Fan speed 1 Status Fan speed 2

Status Fan speed 3

Respond after read only

Respond after change

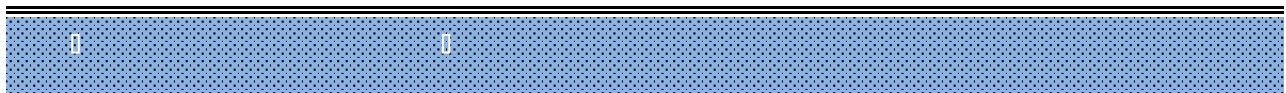


Status Fan speed 1byte

Respond after read only

Respond after change

0



□ □ □ □ □ 8 □

□ □ □ □ □ □ □ □ □



□ □ LED □ □ □ □ □ 8 □

□ □ □ □ □ □ □ □ □

□ □ □ □ □ □



□ □ LED □ □ □ □ 12V



□ □ LED □ □ □ □



□ □ LED □ □ □ □ □ □ □ □

□ □ □ □ □ Initial status indication □

□ □ □ □ □ LED □ □ □ □ □ □

□ □

□ □ □ □ LED □ □ □ □ □

// //

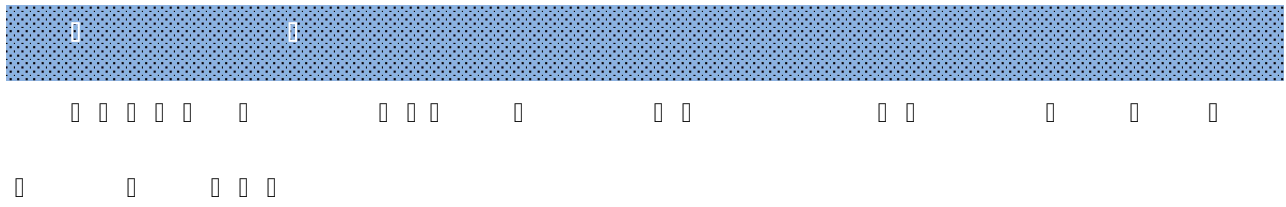
No □ □

As status as object value "0" □ LED □ 0 □ □ □ □ LED x □ □

□ control by external object □ 1byte □ □



□ □ LED □ □ □ □ □ □ □ □



“Switching”

4.10.1

1.1.1 Multifunctional Actuator with Secure, 4-Fold, Flush Mounted > UI setting > Input 1-...

KNX Secure

General

+ Outputs setting

- UI setting

Input 1-...

LED 1-...

Description (max 30char.)

Function of channel

Distinction between short and long operation

Reaction on press the contact

Reaction on release the contact

Send object value after bus recovery (valid if reaction is not toggle)

Number of objects

Disable function

Trigger value of disable object

Switch

No

Yes

No reaction

TOGGLE

No

Yes

1

2

Disable=1/Enable=0

Disable=0/Enable=1

4.10.1

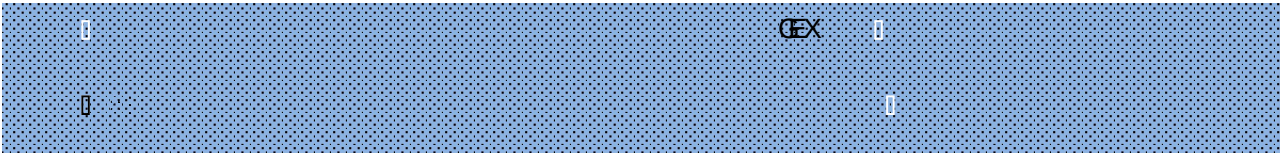
“Input x- Switch”

84



CVS B...X/EIB...X 4

Normally open



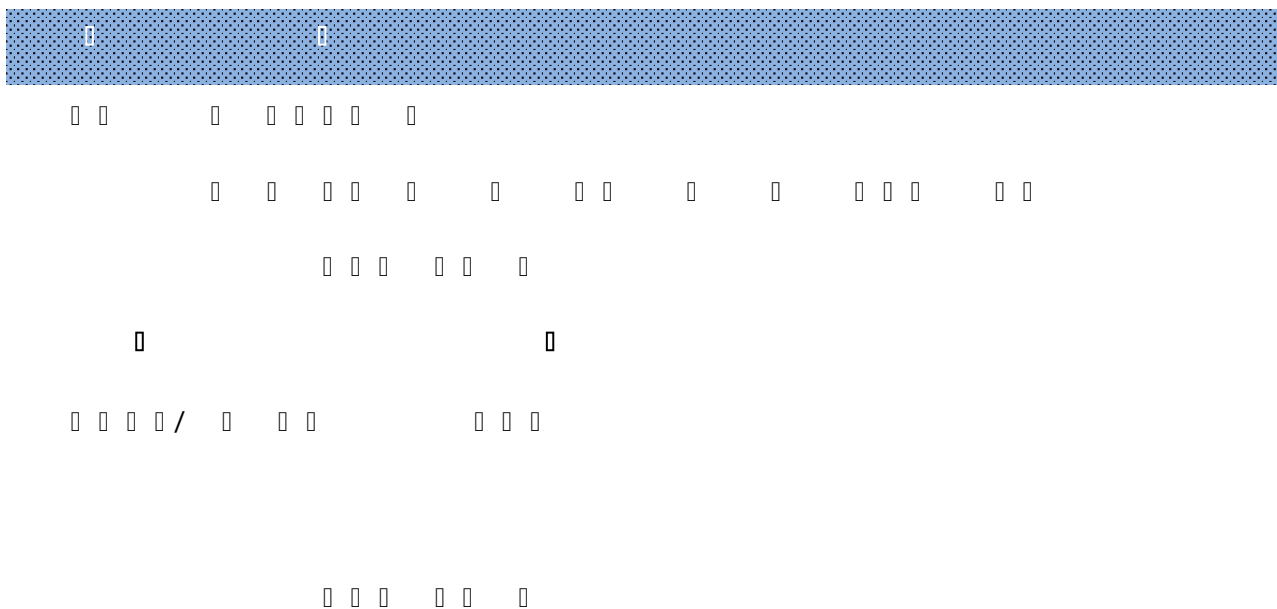
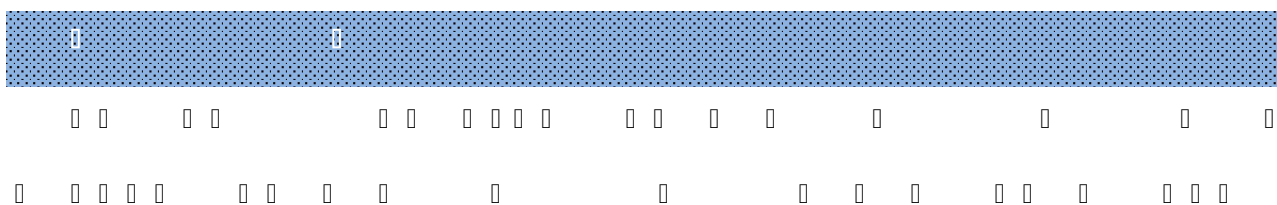
/ /

No action

ON

OFF

TOGGLE



“Dimming mode” “Steps dimming” ,

“Dimming mode” “Steps dimming” ,

“Value output” 4.10.3

1.1.1 Multifunctional Actuator with Secure, 4-Fold, Flush Mounted > UI setting > Input 1-...

KNX Secure

General

+ Outputs setting

- UI setting

Input 1-...

LED 1-...

Description (max 30char.)

Function of channel

Distinction between short and long operation

Long operation after [3..25]

Connected contact type

Reaction on short operation

Reaction on long operation

Disable function

Trigger value of disable object

Value output

No

Yes

5 *0.1s

Normally open

Normally closed

No reaction

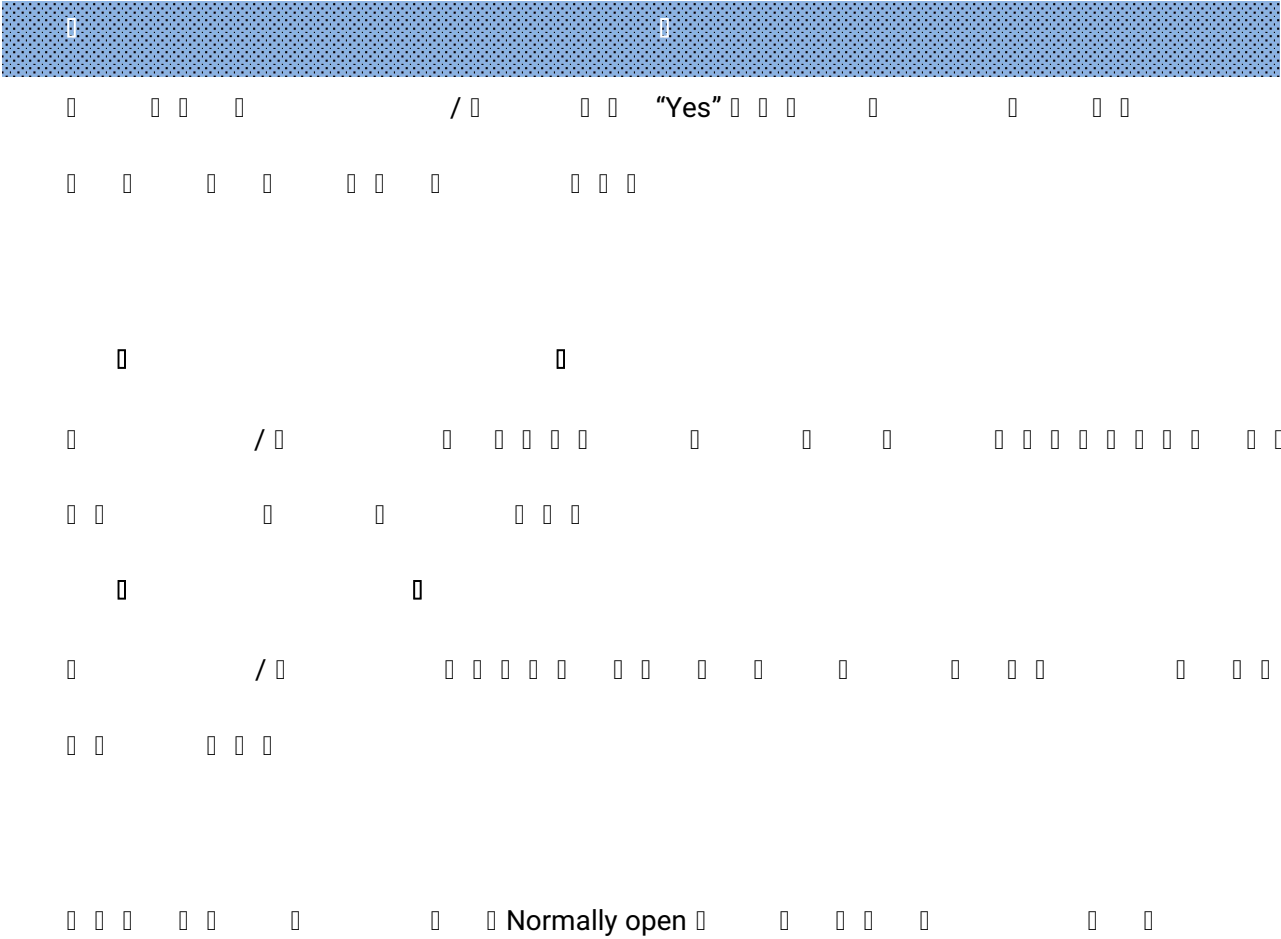
No reaction

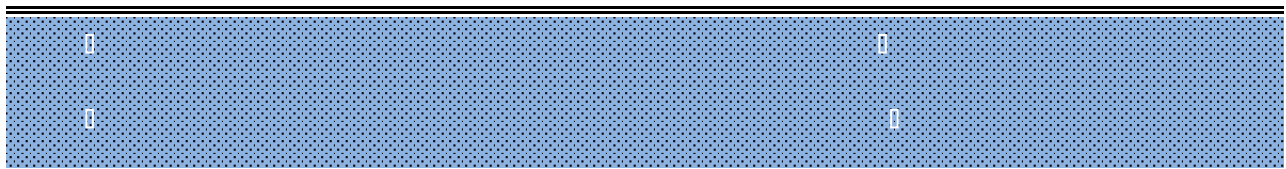
☒

Disable=1/Enable=0

Disable=0/Enable=1

4.10.3 “Input x- Value output”





□ □ □ □ □ / / □ □ □ □ □ □ □ □

□

□

□ □ □ □ □

□ □

□ □

□ □ □

"Scene control"

4.10.4



4.10.4

"Input x- Scene control"



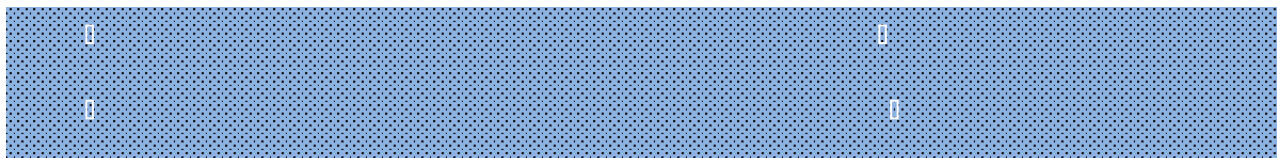
/

"Yes"

/

/

Normally open



/ /

Scene NO.1~64 0~63



No action

Up

Down

Up/Down

Stop (Adjust Up)

Stop (Adjust Down)

Stop (Adjust Up/Down)

“Shift register”

4.10.6

1.1.1 Multifunctional Actuator with Secure, 4-Fold, Flush Mounted > UI setting > Input 1-...

KNX Secure

General

Outputs setting

UI setting

Input 1-...

LED 1-...

Description (max 30char.)

Function of channel

Shift type

Value begin with

Value end with(must be larger than value begin with)

Step size

Direction

Reset function

Long operation after [3..25]

Connected contact type

Disable function

Trigger value of disable object

Shift register

Shift by step value

Shift without step value

0

10

2

From lowest to highest and cyclically

Disable

Enable by long operation

5

*0.1s

Normally open

Normally closed

Disable=1/Enable=0

Disable=0/Enable=1

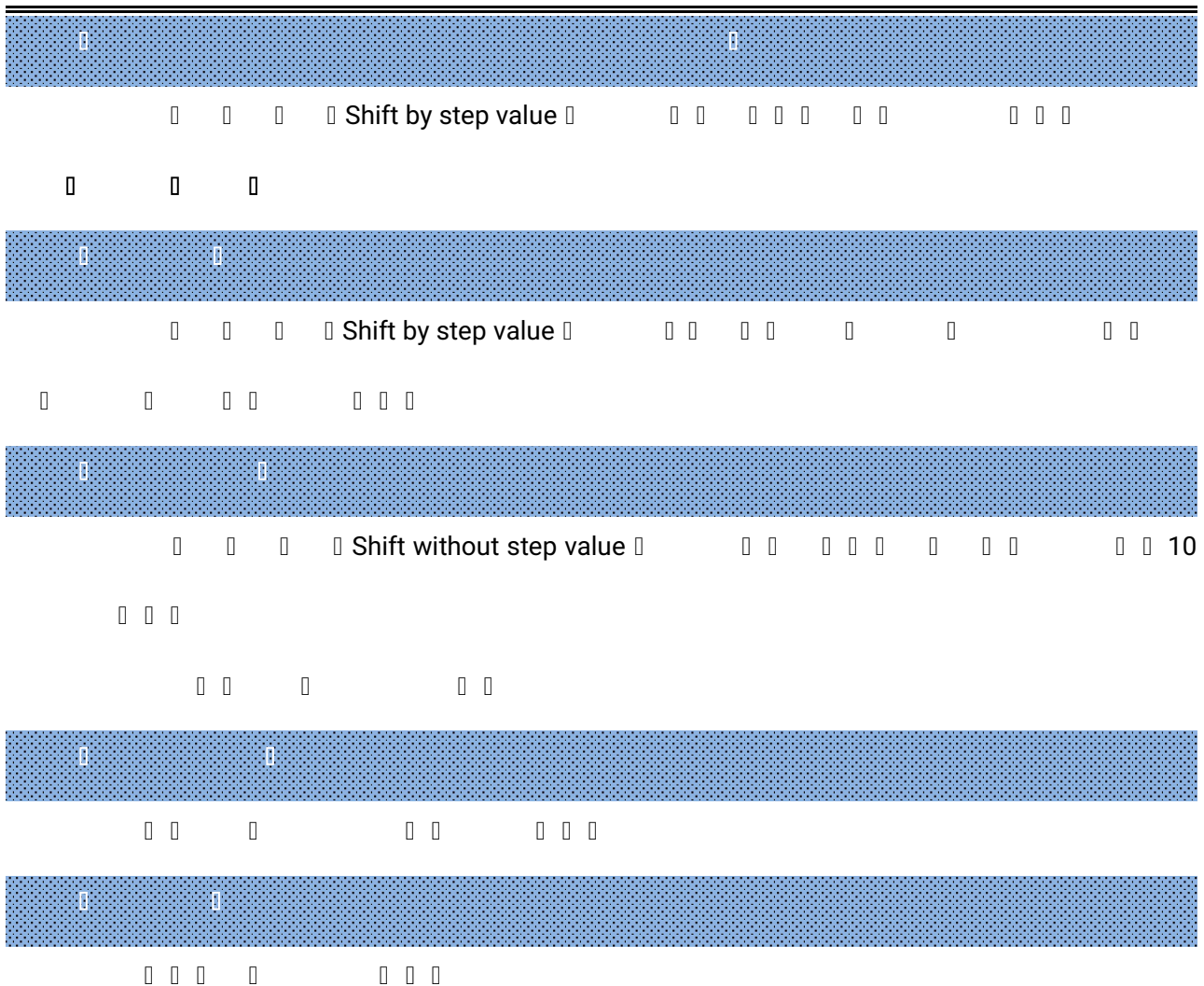
4.10.6



Shift by step value

Shift without step value





From lowest to highest and stop to the end

value 10

value 10

value 1

From highest to lowest and stop to the begin

value 1

value 1

value 10

From lowest to highest and cyclically:

From highest to lowest and cyclically:



Disable

Enable by long operation



Normally open

"Multiple operation"

4.10.7

4

1.1.1 Multifunctional Actuator with Secure, 4-Fold, Flush Mounted > UI setting > Input 1-...

KNX Secure

Description (max 30char.)

General

Function of channel

Multiple operation

+ Outputs setting

Distinction between short and long operation

☒ No ☐ Yes

- On/Off selection

Object type for object1

1Bit_On/Off

Input 1-...

Function of press the contact

TOGGLE

LED 1-...

Object type for object2

1Bit_On/Off

Function of press the contact

Object type for object3

Function of press the contact

Value 1: Escalator

Object type for object4

Function of press the contact

Value 1: Percentage

Profile function

Trigger value of block object

On/Off

On/Off

On/Off

On/Off

On/Off

On/Off

On/Off

On/Off

On/Off

On/Off

On/Off

On/Off

On/Off

On/Off

On/Off

On/Off

4.10.7(1)

Normally open

/

1/2

LED

LED

1.1.1 Multifunctional Actuator with Secure, 4-Fold, Flush Mounted > UI setting > LED 1-...



KNX Secure



General



Outputs setting



UI setting

Input 1-...

LED 1-...

Description (max 30char.)

Status LED indication

Control by external object

External object datatype

☒ 1Bit ☐ 1Byte

When object value="0", LED is

☒ OFF ☐ ON

When object value="1", LED is

☐ OFF ☒ ON

- 1Bit

1.1.1 Multifunctional Actuator with Secure, 4-Fold, Flush Mounted > UI setting > LED 1-...



KNX Secure



General



Outputs setting



UI setting

Input 1-...

LED 1-...

Description (max 30char.)

Status LED indication

Control by external object

External object datatype

☐ 1Bit ☒ 1Byte

Threshold value is

50

If object value<threshold value, LED is

☒ OFF ☐ ON

If object value=threshold value, LED is

☐ OFF ☒ ON

If object value>threshold value, LED is

☐ OFF ☒ ON

- 1Byte

1.1.1 Multifunctional Actuator with Secure, 4-Fold, Flush Mounted > UI setting > LED 1-...



KNX Secure



General

Description (max 30char.)

Status LED indication

Always on

Always on

4.11 "LED X"

None

Control by external object LED

Always



LED Control by external object LED

LED Control by external object 1Bit LED LED

1 0



LED Control by external object 1Byte LED

LED Control by external object 1Byte

LED

LED Control by external object 1Byte

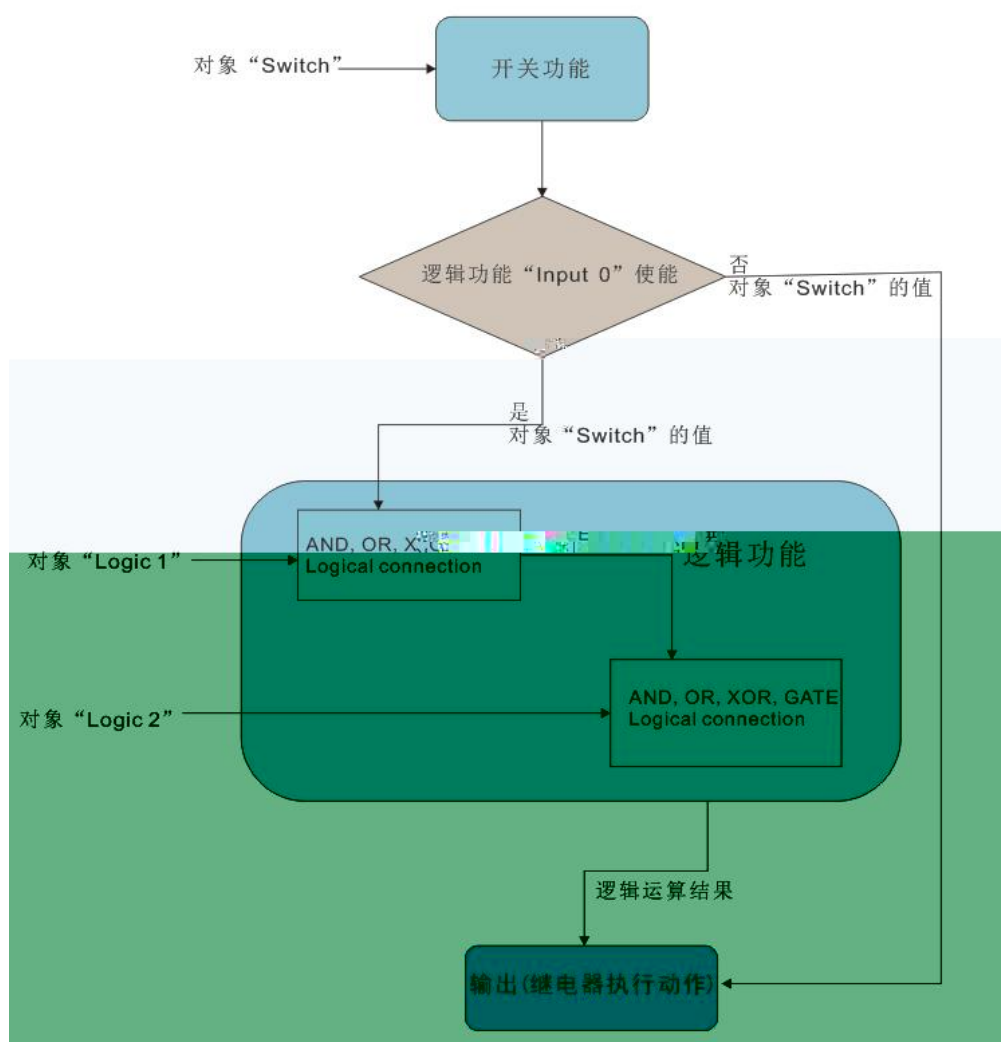
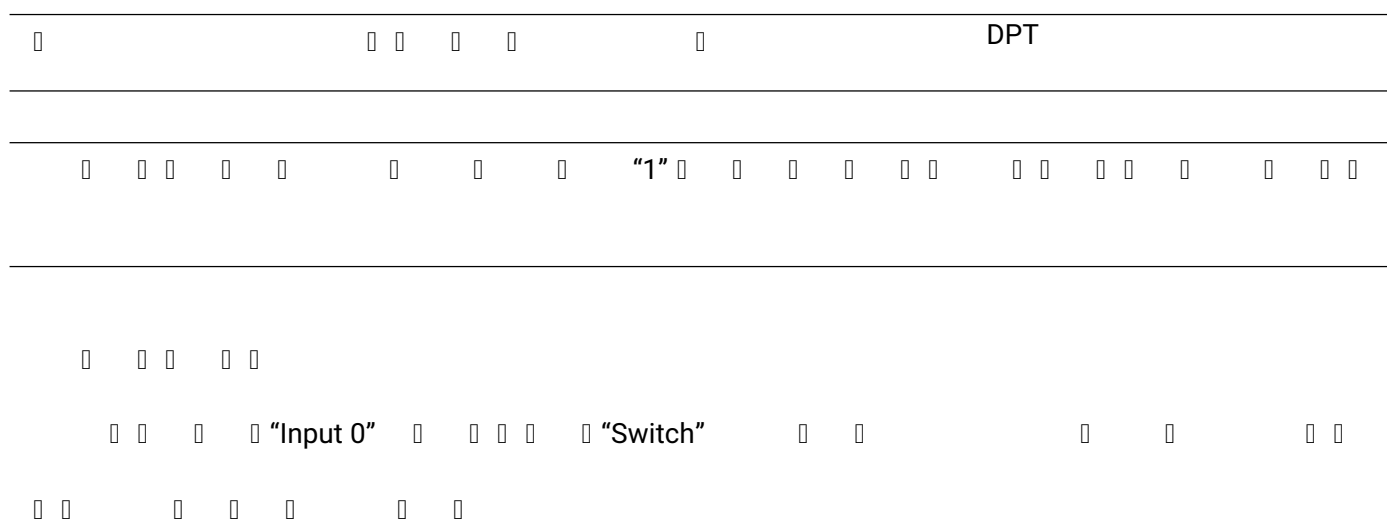
LED

LED	Control by external object	1Byte
-----	----------------------------	-------

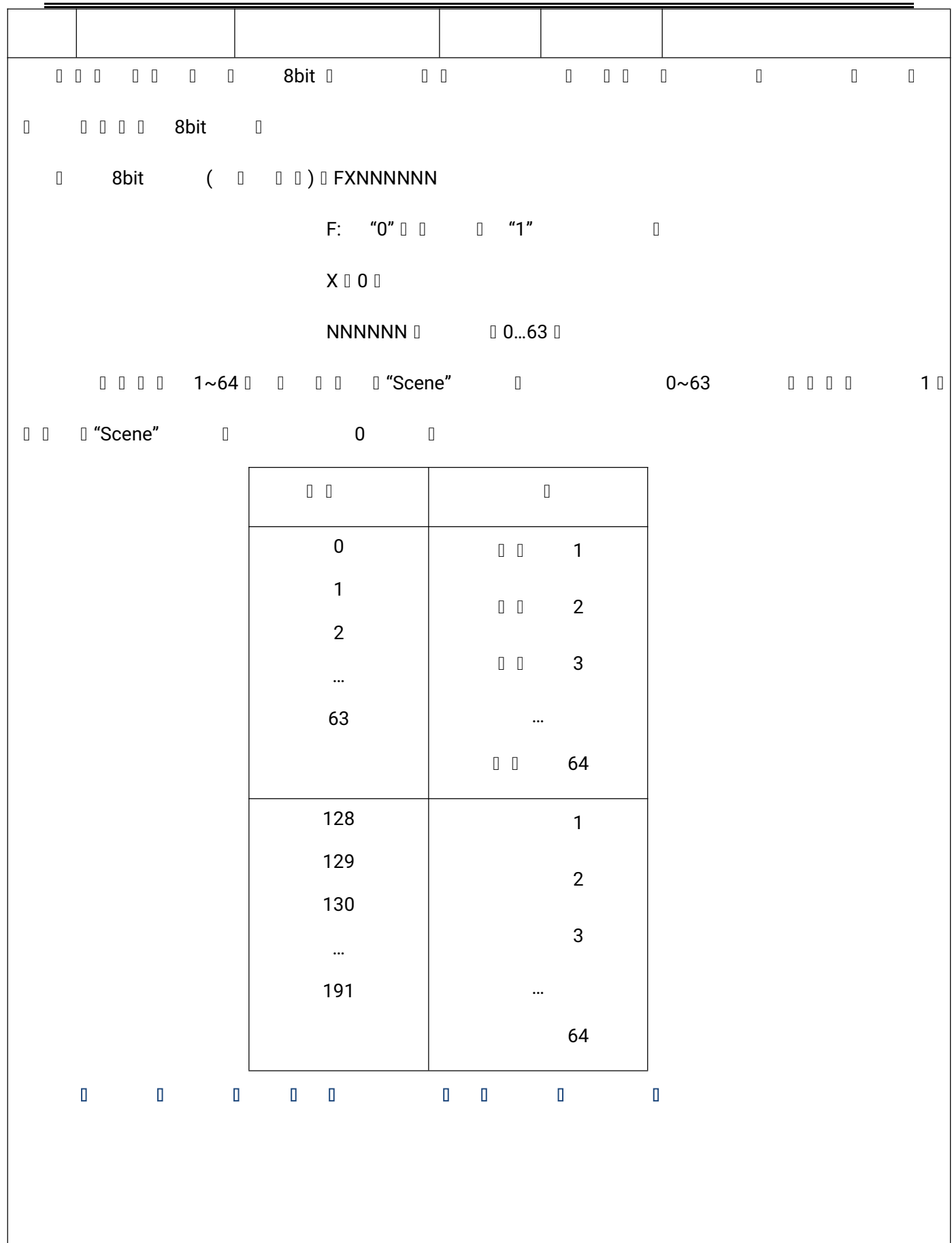
LED

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	Low
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 bits	C	-	W	-	-	enable	Low
9	Output 1 Switch	Flashing function			1 bit	C	-	W	-	-	switch	Low
10	Output 1 Switch	Staircase function			1 bit	C	-	W	-	-	switch	Low
11	Output 1 Switch	Operation hours counter			2 bytes	C	R	W	T	U	time (h)	Low
12	Output 1 Switch	Forced output			1 bit	C	-	W	-	-	enable	Low

5.1.1 --Switch actuator



□ □ □ □ □	4.3“Output X Switch” □	“Object value of switch status ” □ □ □ □			
□ □ □ □ □ □ □					
□ “Respond after read only” □	□	□ □ □ □ □ □ □ □ □ □			
□ □ □ □ □ □					
□ “Respond after change” □ □ □ □	□ □	□ □ □ □ □ □ □ □ □ □			
□					
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □					“1” □
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	“0” □	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □			
□ □					
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □					
□ □ □ □	“Type of time function” □	“Delay” □	□ □ □ □ □ □ □ □ □ □		
□ □ □ □	“Type of time function” □	“Flashing” □	□ □ □ □ □ □ □ □ □ □ □ □ □ □		
□ □ □ □	“Type of time function” □	“Staircase” □	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □		
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □					“Function of “ Operation hours counter”” □
“Enable” □ □	□ □	“Object datatype of “Operation hours counter”” □		2byte □ □	
□ 4byte □	□				



1bit "1" "0"					
2bit "3" "2" "1"					
"0"					
"The input 1 of logic" "Enable" Input1					
"The input 2 of logic" "Enable" Input2					

5.1.1 --Switch actuator

□

□ □ □ □ □

Number ^	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
1	General	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	-	-	-	switch	Low

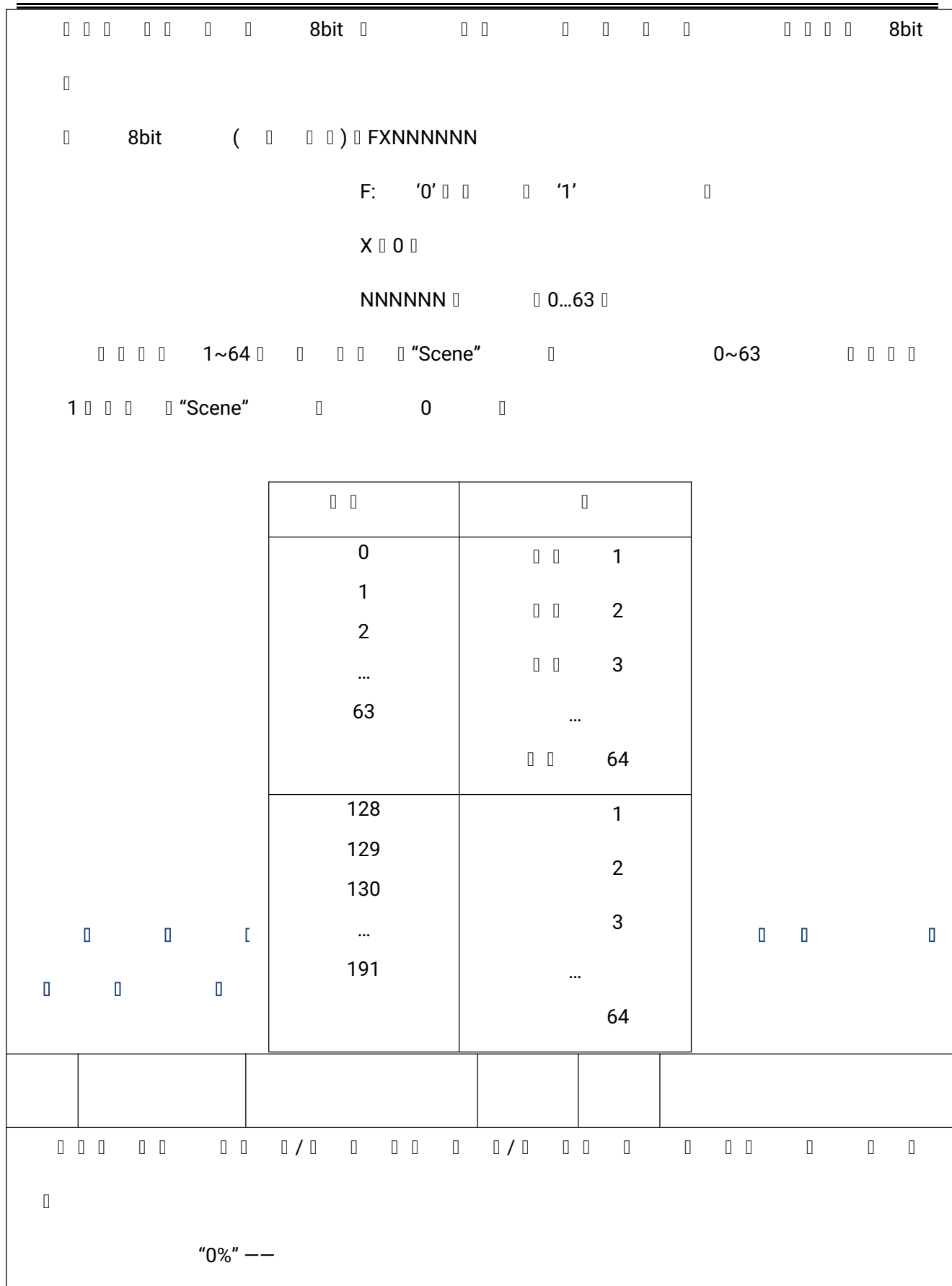
1bit(on-off control or PWM)

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

1byte(Continuous)

5.1.2 □ --Heating actuator(without controller) □ □ □ □

□		□ □ □ □	□		DPT
□ □ □ □	"Control telegram is received as" □ "1bit(on-off control or PWM)" □ □ □ □ □				
□ □ □	1bit □	□	"0" □ □ □ □	"1" □ □	
□ □ □ □	"Reply the status for contact" □ "Yes, 1= contact close ; 0=contact open" "Yes,0= contact close ; 1=contact open" □ □ □ □ □ □ □ □ □ □ □ □				
□ □ □ □	"Control telegram is received as" □ "1byte(Continuous)" □ □ □ □ □ □ □ □ □				
	1Byte □	□ □ □ □ □	0...100% □	"0%" □ □ □ □	"100%" □ □
□ □ □ □	"Reply the status for continuous control" □ "Yes □ 0%=0, otherwise "1"(1bit)" "Yes □ 0%=1, otherwise "0"(1bit)" □ □ □ □ □ □ □ □ □ □ □ □				
□	"Yes, 0% =0, otherwise"1"(1 bit)" □	"0" □ □ □ □ □ □	□	"1" □	



..... — —

“100%” — —

“Venetian Blind”

“0%” — —

..... — —

“100%” — —

“0” “1”

“0” “1”,

“0” — —

“1” — —

“Sun:slat adj. 0...100%”

“Venetian Blind”

“0%” — —

..... — —

“100%” — —

“Venetian Blind”

“0%” — —

□ □ □ □ □

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
38	Fan-...	Fan speed			1 bit	C	-	W	-	-	switch	Low
42	Fan-...	Status Fan ON/OFF			1 bit	C	R	-	T	-	switch	Low
47	Fan-...	Automatic function			1 bit	C	-	W	-	-	enable	Low
48	Fan-...	Status Automatic			1 bit	C	R	-	T	-	enable	Low
49	Fan-...	Forced operation			1 bit	C	-	W	-	-	enable	Low
50	Fan-...	Control value 1			1 byte	C	-	W	-	-	percentage (0..100%)	Low
51	Fan-...	Control value 2			1 byte	C	-	W	-	-	percentage (0..100%)	Low
52	Fan-...	Switching control value 1/2			1 bit	C	-	W	-	-	switch	Low
53	Fan-...	Control value fault			1 bit	C	R	-	T	-	alarm	Low

5.3_1 □ _One level □ □ □ □

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
38	Fan-...	Fan speed			1 byte	C	-	W	-	-	percentage (0..100%)	Low
39	Fan-...	Fan speed 1			1 bit	C	-	W	-	-	switch	Low
40	Fan-...	Fan speed 2			1 bit	C	-	W	-	-	switch	Low
41	Fan-...	Fan speed 3			1 bit	C	-	W	-	-	switch	Low
42	Fan-...	Status Fan ON/OFF			1 bit	C	R	-	T	-	switch	Low
43	Fan-...	Status Fan speed 1			1 byte	C	R	-	T	-	percentage (0..100%)	Low
44	Fan-...	Status Fan speed 2			1 bit	C	R	-	T	-	switch	Low
45	Fan-...	Status Fan speed 2			1 bit	C	R	-	T	-	switch	Low
46	Fan-...	Status Fan speed 3			1 bit	C	R	-	T	-	switch	Low
47	Fan-...	Automatic function			1 bit	C	-	W	-	-	enable	Low
48	Fan-...	Status Automatic			1 bit	C	R	-	T	-	enable	Low
49	Fan-...	Forced operation			1 bit	C	-	W	-	-	enable	Low
50	Fan-...	Control value 1			1 byte	C	-	W	-	-	percentage (0..100%)	Low
51	Fan-...	Control value 2			1 byte	C	-	W	-	-	percentage (0..100%)	Low
52	Fan-...	Switching control value 1/2			1 bit	C	-	W	-	-	switch	Low
53	Fan-...	Control value fault			1 bit	C	R	-	T	-	alarm	Low

5.3_2 □ _Multi-level □ □ □ □

□	□ □ □ □	□	DPT
□ □ □ □ , □	1bit □ □ □ □		
	"0"— □		
	"1"— □		
□ □ □ □ □	1byte □ □ □ □ □ □ □ □	□ □ □ □ □ □ □ □	□ □ □ □ □ □ □ □
□ □ □ □ □ □ □ □ □ □	□ □ □ □ □ □ □ □ □ □	□ □ □ □ □ □ □ □ □ □	1..100% □ □
□			

□ □ □ □ □ □

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
54	Input 1-...	Switch	*		1 bit	C	-	W	T	U	switch	Low
58	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
54	Input 1-...	Press, Switch			1 bit	C	-	W	T	U	switch	Low
55	Input 1-...	Release, Switch			1 bit	C	-	W	T	U	switch	Low
58	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
54	Input 1-...	Short, Switch			1 bit	C	-	W	T	U	switch	Low
55	Input 1-...	Long, Switch			1 bit	C	-	W	T	U	switch	Low
58	Input 1-...	Disable			1 bit	C	-	W	-	-	enable	Low

"Switch" □

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
54	Input 1-...	Short, switch			1 bit	C	-	W	T	U	switch	Low
55	Input 1-...	Long, Dimming			4 bit	C	-	W	T	-	dimming control	Low
58	Input 1-...	Disable			1 bit	C	-	W	-	-	enable	Low

"Dimming" □

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
54	Input 1-...	Press, 1bit value			1 bit	C	-	-	T	-	switch	Low
55	Input 1-...	Release, 1bit value			1 bit	C	-	-	T	-	switch	Low
58	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
54	Input 1-...	Short, 1bit value			1 bit	C	-	-	T	-	switch	Low

"Value output" □

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
54	Input 1-...	Scene			1 byte	C	-	-	T	-	scene control	Low
58	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
54	Input 1-...	Press, Scene			1 byte	C	-	-	T	-	scene control	Low
55	Input 1-...	Release, Scene			1 byte	C	-	-	T	-	scene control	Low
58	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
54	Input 1-...	Short, Scene			1 byte	C	-	-	T	-	scene control	Low
55	Input 1-...	Long, Scene			1 byte	C	-	-	T	-	scene control	Low

"Scene control" □

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	I	Data Type	Priority
54	Input 1-...	Up/Down, Blind			1 bit	C	-	W	T	-	-	up/down	Low
55	Input 1-...	Stop/Adjust, Blind			1 bit	C	-	W	T	-	-	step	Low
58	Input 1-...	Disable			1 bit	C	-	W	-	-	-	enable	Low

"Blind" □

	Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
	54	Input 1-...	Register value			1 byte	C	-	W	T	-	counter pulses (0..255)	Low
	58	Input 1-...	Disable			1 bit	C						

"Shift register" □

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
54	Input 1-...	Object1-On/Off			1 bit	C	-	W	T	-	switch	Low
55	Input 1-...	Object2-Up/Down			1 bit	C	-	W	T	-	up/down	Low
56	Input 1-...	Object3-SceneControl			1 byte	C	-	-	T	-	scene control	Low
57	Input 1-...	Object4-Percentage			1 byte	C	-	-	T	-	percentage (0..100%)	Low
58	Input 1-...	Disable			1 bit	C	-	W	-	-	enable	Low

"Multiple operation"

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
54	Input 1-...	Press, Delay mode			1 bit	C	-	-	T	-	switch	Low
58	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
54	Input 1-...	Short, Delay mode			1 bit	C	-	-	T	-	switch	Low
55	Input 1-...	Long, Delay mode			1 bit	C	-	-	T	-	switch	Low
58	Input 1-...	Disable			1 bit	C	-	W	-	-	enable	Low

"Delay mode"

5.4

					DPT
0 1					
1~7 7 9 15 8					

126

0 0 0 0 0 / 0 0 0

0 0 0 / 0 0

1 0 0 / 0 0

0 0 0 0 0 0 0 0

0 0 0 0 0 0

Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
94	LED 1-...	Status			1 byte	C	-	W	T	U	counter pulses (0..255)	Low

5.5 LED

					DPT
LED Control by external object					
		1bit/1byte		LED	

5.5 LED