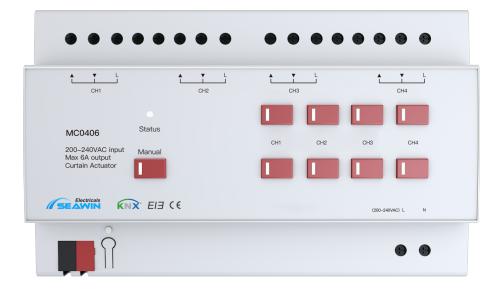


4-way 6A Curtain Actuator

Manual-Ver2.1

MC0406





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Overview

This manual provides you with detailed technical information for curtain actuator module, including installation and programming details, and explains how to use the curtain actuator module based on practical examples. To facilitate installation to the distribution box, the curtain actuator module is designed as a modular installation device that can be mounted on a 35 mm DIN rail.

The curtain actuator module is used to control the opening and closing of curtains, etc..

The system is installed with other loads through the EIB/ KNX bus.

Set up and operate the whole system using engineering design tool software ETS.

2 **Product and function overview**

The curtain actuator modules are modular installation devices with 2-way and 4-way outputs. EIB bus terminals are connected to EIB/KNX system, and ETS software (version ETS4.0 or above) is used for physical address allocation and parameter setting.

The maximum load current for output of each curtain actuator is 6A, including 4-way intelligent relays with manual control buttons, LED indicates the switch status of each circuit.

Functions:

- (1) Independently control 4 circuits of AC motor;
- (2) With manual control curtain / projection curtain function;
- (3) You can set the time interval to cycle on or off;
- (4) With field save and restore functions;
- (5) Status value query reply function;
- (6) Selection function of relay switch state after bus power failure and voltage recovery;
- (7) With scene combination control function;
- (8) 4-way dry contact input interface, which can input control instructions such as switches, curtains, dimming, and

scenes, and can be directly linked to fire emergency lighting;

- (9) Range of application: opening and closing curtains, projection curtains, jalousie, rolling shutters, elevators, etc.;
- (10) I / O wiring communication distance: less than 10m;

3 Detailed parameters

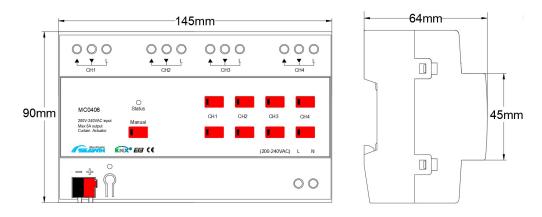
Rated voltage	200~240VAC
Frequency	50/60Hz
Bus voltage	21-30V DC
Bus current	≤12mA
Working frequency:	≤1.6W



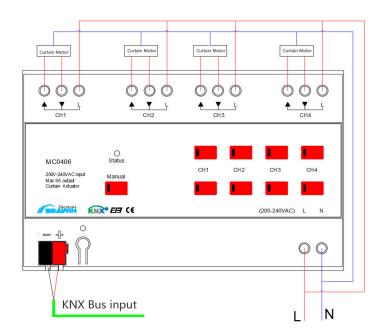
Output current (per circuit)	max 6A
Size (Lx W x H)	145mmX90mmX64mm
Weight (approx.)	0.4KG
Shell material	PA66
Installation method	DIN rail installation
Working temperature	- 5°C+45°C
Storage temperature	-25°C+ 55°C
Transport temperature	-25°C+ 70°C
Relative humidity	max 90%

4 Dimensional drawing and wiring diagrams

4.1 Dimensional drawing



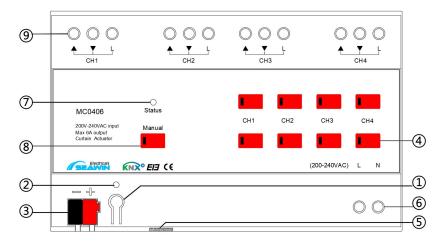
4.2 wiring diagram







5 Product operation instruction



- Description: programming button, short press the button to enter programming mode;
- Description: Programming indicator light, when the indicator light is red, the device is in the programming state, when the device is programmed or working normally, the indicator light is off;
- Description: KNX terminal block, KNX bus connection, the red line is connected to "+", and the black line is connected to "-";
- Instructions: For each circuit control button, when the indicator light on the Manual button is on, long press the upper button, the corresponding circuit curtain motor will run forward, let go to stop; short press the upper row button, the corresponding circuit curtain motor will follow the set range Forward rotation operation; long press the second button, the corresponding circuit curtain motor reverses operation, let go to stop; short press the second button, the corresponding circuit curtain motor reverses operation, let go to stop; short press the second button, the corresponding circuit curtain motor reverses according to the set range. (Short press the forward/reverse range to set in the database, the indicator light on the button is on during the operation, and the indicator light is off when the operation is stopped or the operation is completed);
- Description: dry contact input terminals;
- Description: 200~240VAC power supply wiring port, the aperture can be connected to φ4 wires;
- Note: Status is the status indicator of the device power supply. When the indicator is green, the bus power supply status of the device is normal;
- Explanation: Manual is the switch button for bus and manual control. Press the button once, the indicator light on the button will light up in red, and you can manually control the CH1-CH4 channels.
- Explanation: Relay output terminals: one input and two outputs, "▲" is the terminal for forward rotation of the motor, "▼" is the terminal for reverse rotation of the motor, and the aperture can be connected to φ4 wires.

6 Parameter setting and communication object description

6.1 Parameter setting of curtain control function

The following takes ETS5 as an example to set parameters in ETS5. Note: In the following introduction, Channel X or X



represents the output of the corresponding channel.

1) Open the parameter setting interface of the curtain execution module in ETS5, as shown in Figure 6.1.1, the parameter "Channel X" indicates the output of the corresponding channel. The parameter "Field control" indicates the field control function. When the "off" command is sent, the relay status of each channel is saved and closed. When the "on" command is sent, the last saved relay status is recalled. (Note: The "off" command cannot be sent twice consecutively, because the current state is saved when the "off" command is sent for the first time, but when the "off" command is sent for the second time, the "off" command sent for the first time will be saved. off" command, covering the first saved scene state).

Options: Disable

Enable

- Curtain Actuator	Switch function	
Functions	Channel A	Disabled Enabled
Universal Interface	Channel B	Disabled Enabled
Device Situation	Channel C Channel D	 Disabled Enabled Disabled Enabled
	Field function	
	Field control	Disabled Enabled
组对象 Channels 参数		
组对象 Channels 参数		

Figure 6.1.1

2) After setting, the interface is shown in Figure 6.1.2, and 4 options in the red block as shown in figure

 Curtain Actuator 	Switch function	
	Channel A	Oisabled O Enabled
Functions	Channel B	O Disabled O Enabled
Channel A Channel B	Channel C	O Disabled O Enabled
Channel C	Channel D	Disabled Disabled
Channel D	Field function	
Universal Interface	Field control	Disabled Enabled
Device Situation		
组对象 Channels 参数		

Figure 6.1.2

3) Click the options in the red block above to set the parameters of each circuit. Take Channel A as an example, as shown in figure 6.1.3



Curtain Actuator	Total time from top to bottom(base 1s)	10	÷
Functions	Moving time for each step(base 0.1s)	3	÷
Channel A	Behaviour on bus voltage recovery	move upwards	-
Channel B	Status response	No Yes	
Channel C	Object Alarm	O No Ves	
Channel D	8-bit scene control	O Disabled C Enabled	
Universal Interface	Timing cycle function	Disabled Enabled	
Device Situation			
象 Channels 参			

Figure 6.1.3

Parameter	Description
Total time from top to	Total time for curtain from top to bottom, can be filled: 1, 2, 3255;
bottom (base 1s)	
Moving time for each	Indicating the time that the motor rotates when sending a command during jog control, can
step (base 0.1s)	be filled: 1, 2, 3255;
Behaviour on bus	Represents bus voltage recovery status after power failure, options: Move upwards, Move
voltage recovery	downwards, No action;
	Status response, options: No, Yes, when "Yes" is selected, parameter "Transmission of status"
Status response	will appear, options: using read request only (Status response only when sending request),
	on change in status (Status change immediately with status feedback);
	Alarm, options: Yes, No; when "Yes" is selected, "Behavior on alarm" and "Monitoring time
	for alarm" will appear. "Behavior on alarm" represents alarm status, options: 1%, 2%100%
Object Alarm	(Note: The status x% indicates the percentage of the closed position of the curtain) ;
	"Monitoring time for alarm" indicates that the alarm status will be executed automatically
	after a set time without any instruction to cancel the alarm, options: disabled, 1 minute, 2
	minutes120 minutes
	Scene control function, options: Enable, Disable, when "Enable" is selected, "scene" will
	appear in the corresponding channel on the left side of the interface. Click "scene" and the
	interface will be switched as shown in figure 6.1.4. In the interface " Channel A assignment 1
8-bit scene control	
	Position Value " represents the channel status corresponding to the scene number, which
	can be filled 0%, 1%100%(Note: The status x% indicates the percentage of the closed
	position of the curtain)
	Timing cycle function, options: Enable, Disable, when "Enable" is selected, " Timing cycle



	" will appear in the corresponding channel on the left side of the interface, click "Timing
	cycle", and the interface will be switched as shown in figure 6.1.5. In the interface "Moving
Timing cycle function	direction" indicates the curtain moving direction, options: upwards, downwards; "Operation
	priority", options: "first moving, then timing", "first timing, then moving"; "Percentage
	for every movement", options: 0%, 1%, 2%100%; "Duration after moving[0-255min]"
	(in minute), can be filled in: 0, 1, 2255; "Duration after moving[0-59s]" (in second),
	can be filled in: 0, 1, 259; "cycle number (0=unlimited)", can be filled in: Any integer
	value, "0" means unlimited

Curtain Actuator	A:assignment 1 [1-64](0=disabled)	0	
Functions	Output Position Value	100%	
Channel A	A:assignment 2	0	
A:Scene	Output Position Value	100%	
Channel B	A:assignment 3	0	
Channel C	Output Position Value	100%	
Channel D	A:assignment 4	0	
Universal Interface	Output Position Value	100%	
Device Situation	A:assignment 5	0	
	Output Position Value	100%	
	A:assignment 6	0	
	Output Position Value	100%	
	A:assignment 7	0	



Moving direction	upwards	•
Operation priority	 first moving, then timing first timing, then moving 	
Percentage for every movement	10%	•
Duration after moving(0255min)	0	\$
Duration after moving(059s)	1	\$
	0	
Cycle number(o=unimited)	0	Y
	Operation priority Percentage for every movement	Operation priority first moving, then timing first timing, then moving Percentage for every movement 10% Duration after moving(0255min) 0 Duration after moving(059s) 1

Figure 6.1.5

6.2 Setting of dry contact interface parameters

1) Click "Universal Interface" as shown in Figure 6.2.1, Universal Interface A-D is set to enable, four dry contact interfaces will be enabled.



Curtain Actuator Universal Interface A ① Disabled _ Enabled Functions Universal Interface B ② Disabled _ Enabled Channel A Universal Interface C ③ Disabled _ Enabled Channel B Universal Interface D ③ Disabled _ Enabled Channel C ① Disabled _ Enabled Enabled Universal Interface ⑨ Disabled _ Enabled Enabled Universal Interface ⑨ Disabled _ Enabled Enabled Universal Interface ⑨ Disabled _ Enabled Enabled Device Situation #### / Enabled #### / Enabled			
Functions Universal Interface C Disabled Enabled Universal Interface D Disabled Enabled Universal Interface Universal Interface Universal Interface Universal Interface	- Curtain Actuator	Universal Interface A	Disabled
Channel A Channel B Channel C Channel D Universal Interface D Disabled Enabled Device Situation	Functions	Universal Interface B	Disabled
Channel C Channel D Universal Interface Device Situation	Channel A	Universal Interface C	Disabled Enabled
Channel D Universal Interface Device Situation	Channel B	Universal Interface D	Disabled Enabled
Universal Interface Device Situation	Channel C		
Device Situation	Channel D		
	Universal Interface		
组对象 Channels 参数	Device Situation		
	组对象 Channels 参数		

Figure 6.2.1

2) After the setting is completed, there will be Interface A-D four dry contact interfaces on the right. Click each dry contact interface to set its parameters. The following uses Universal Interface A as an example, as shown in Figure 6.2.2.

Curtain Actuator	Function mode	Switch	
Functions	Switch mode	On	
Channel A	Debounce time	10ms	
Channel B			
Channel C			
Channel D			
Universal Interface			
Interface A			
Interface B			
Interface C			
Interface D			
Device Situation			

Figure 6.2.2

3) Parameter "function mode" is divided into 6 modes: Switch, Blind, Blind Position, Dimming, Dimming Position, Scene.

(1) Switch mode

Parameter	Description
Switch mode	Represents the action of the corresponding circuit control when the dry contact is
	triggered, options: on, off, toggle, user define; when user define is selected, The following
	parameters appear: (1) Reaction on closing the contact, options: on, off, no reaction; (2)
	Reaction on opening the contact, options: on, off, no reaction; (3) cyclic transmission of
	object, options: no, if "switch" =ON (relay on) , if "switch" =OFF (relay off) , always.
	When if "switch" =ON、if "switch" =OFF or always are selected, parameters will appear:
	transmission cycle time: base and Time factor[1-255] (Here the two parameters indicate the



	time interval between cyclic transmissions, transmission cycle time = base value × Time
	factor[1-255] value) .
debounce time	Debounce time, options: 10ms, 20ms100ms

(2) Blind mode

Parameter	Description						
Blind mode	Curtain action controlled by corresponding circuit when dry contact is triggered, options: up, down, toggle;						
Long operation	Long press operation, options: yes, no. When yes is selected, parameter "Long operation after" will be added, options: 0.5s, 1s, 2s7s; The interval of data(base:0.1s) represents the interval at which each piece of data is sent during a long press, can be filled in: 1, 2, 3 255;						
debounce time	Debounce time, options: 10ms, 20ms100ms						

(3) Blind Position mode

Parameter	Description
Blind value	Represents the percentage of the position of the corresponding circuit control curtain
(Range:0-255)0-100%	when the dry contact is triggered. It can be filled in: 0-255;
debounce time	Debounce time, options: 10ms, 20ms100ms

(4) dimming mode

Parameter	Description						
Dimming mode	Represents the dimming action controlled by the corresponding circuit when the dry						
	contact is triggered, options: Dimming up, dimming down, toggle;						
Long operation after:	Represents a corresponding action after a long press, options: 0.5s, 1s, 2s7s						
Transmission mode for	Data transmission mode when long press, options: One-time transmission, cyclic						
long operation	transmission.						
Step dimming	Represents the amplitude of dimming, options: 100%、50%、25%、12%、6%、3%、1%						
Send stop instruction	Command to stop when long press is released, options: No, Yes						
when releasing	ing						
debounce time	Debounce time, options: 10ms, 20ms100ms						

(5) Dimming position mode

Parameter	Description						
Dimming value	It indicates the brightness percentage of the corresponding circuit control dimming when						
(Range:0-255)0-100%	the dry contact is triggered. It can be filled in: 0-255;						
debounce time	Debounce time, options: 10ms, 20ms100ms						



(6) Scene mode

Parameter	Description						
Scene number	Represents the scene number called when the dry contact is triggered. It can be filled in:						
	1-64;						
debounce time	Debounce time, options: 10ms, 20ms100ms						

6.3 Device Situation

1) Click "Device Situation", parameter in Figure 6.3.1 will show:

Curtain Actuator	Manual status		
	Manual status	Oisabled O Enabled	
Functions	Transmission of manual status	using read request only	
Channel A			
Channel B	ON time during manual mode	1 minutes	
	Device status		
Channel C	Device status	Disabled O Enabled	
Channel D			
Universal Interface	Transmission of device status	using read request only	
Interface A			
Interface B			
Interface C			
Interface D			
Device Situation			

Figure 6.3.1

(1) Manual status indicates manual status. The following parameters appear when "enabled" is selected.

Parameter	Description							
	Transmission of manual status, options: "using read request only" (Status response only							
Transmission of manual	when sending request), "on change in status" (Status change immediately with status							
status	feedback)、"transmission in cycles"; when "transmission in cycles" is selected, parameter							
	"the time in cycles" (Interval time), will appear, options: 1second, 2seconds							
	120minutes.							
ON time during manual mode	ON time during manual mode, options: "1 minute", "2minutes " "120 minutes",							
	"unlimited" .							

(2) Device status, the following parameters appear when "enabled" is selected.

Parameter	Description							
	Transmission of manual status, options: "using read request only" (Status response only							
Transmission of manual	when sending request) , "on change in status"(Status change immediately with status							
status	feedback)、"transmission in cycles"; when "transmission in cycles" is selected, parameter							
	"the time in cycles" (Interval time), will appear, options: 1second, 2seconds							
	120minutes.							



6.4 Communication object description

The communication object is the medium for the device to communicate with other devices on the bus, that is, only the communication object can perform bus communication. The role of each communication object is described in detail below.

The curtain actuator has a total of 62 objects, as shown in Figure 6.4.1, and the specific functions are shown in Table 1.1.

Note: in the column of table properties, "C" represents the communication function enable of the communication object, "W" represents the value of the communication object can be rewritten through the bus, "R" represents the value of the communication object can be read through the bus, "T" represents the communication object has the transmission function, and "U" represents the value of the communication object can be updated.

Number	Name	Object Function	Description	Group Addresses	Length	С	R	W	Т	U	Data Type	Priority
⊒ ‡ 0	Status direct mode	On / Off			1 bit	С	R	-	т	-	1 bit DPT_Switch	Low
1	Field switch	Recover / Save and			1 bit	С	R	W	Т	-	1 bit DPT_Switch	Low
2	Channel A, Alarm	Alarm:On/Off			1 bit	С	R	W	т	-		Low
3	Channel A,Scene	8-bit Scene Number			1 Byte	С	R	W	т	-		Low
■24	Channel A, Curtain	Up / Down			1 bit	С	R	W	т	-	1 bit DPT_UpDown	Low
12 5	Channel A, Stop / Step	Stop/Step			1 bit	С	R	W	т	-		Low
□ \$6	Channel A, Position value	8-bit Value			1 Byte	С	R	W	т	-	8 bit unsigned val	Low
■ ₽ 7	Channel A, Timing cycle	On / Off			1 bit	С	R	w	т	-	1 bit DPT_Switch	Low
12 8	Channel A, Status curtain	Position 0-100%			1 Byte	с	R	-	т	-	8 bit unsigned val	Low
■29	Channel B, Alarm	Alarm:On/Off			1 bit	С	R	W	т	-		Low
10	Channel B,Scene	8-bit Value			1 Byte	С	R	W	т	-		Low
11	Channel B, Curtain	Up / Down			1 bit	С	R	w	т	-	1 bit DPT_UpDown	Low
12	Channel B, Stop / Step	Stop/Step			1 bit	С	R	W	т	-		Low
13	Channel B, Position value	8-bit Value			1 Byte	с	R	W	т	-	8 bit unsigned val	Low
14	Channel B, Timing cycle	On / Off			1 bit	С	R	w	т	-	1 bit DPT_Switch	Low
15	Channel B, Status curtain	Position 0-100%			1 Byte	С	R	-	т	-	8 bit unsigned val	Low
16	Channel C, Alarm	Alarm:On/Off			1 bit	с	R	W	т	-		Low
17	Channel C,Scene	8-bit Value			1 Byte	С	R	W	т	-		Low
18	Channel C, Curtain	Up / Down			1 bit	С	R	W	т	-	1 bit DPT_UpDown	Low
19	Channel C, Stop / Step	Stop/Step			1 bit	с	R	w	т	-		Low
⊒ ‡ 20	Channel C, Position value	8-bit Value			1 Byte	С	R	W	т	-	8 bit unsigned val	Low
21	Channel C, Timing cycle	On / Off			1 bit	С	R	W	т	-	1 bit DPT_Switch	Low
22	Channel C, Status curtain	Position 0-100%			1 Byte	С	R	-	т	-	8 bit unsigned val	Low
1 23	Channel D, Alarm	Alarm:On/Off			1 bit	С	R	W	т	-		Low
24	Channel D,Scene	8-bit Value			1 Byte	с	R	w	т	-		Low
25	Channel D, Curtain	Up / Down			1 bit	С	R	w	т	-	1 bit DPT_UpDown	Low
26	Channel D, Stop / Step	Stop/Step			1 bit	С	R	w	т	-		Low
27	Channel D, Position value	8-bit Value			1 Byte	с	R	w	т	-	8 bit unsigned val	Low
	d IDT' I	0 10%				~	-		-		ALL'S DOT O SIL	

Figure 6.4.1

Number	Name	Communication object function	Data type	Attribute							
0	Manual mode and status	On/Off	1 bit	C,R,T							
The commun	The communication object is enabled when the parameter " Manual status " selects "Enable", this communication										
object is usec	l to indicate the switch of manual r	mode (Manual mode=on) and bus	mode (Manua	al mode=off).							
When switchi	ng to manual mode (press the bus	on the switch actuator and the man	ual control sw	itch button, the							
"Manual" indi	"Manual" indicator lights up), you can control the on / off of each circuit on the corresponding button on the module.										
When switchi	When switching to the bus mode (press the bus on the switch actuator and the manual control switch button again, the										
"Manual" indi	icator turns off), it responds only t	he operations on the bus。									
1	1 Field switch Recover/Save and Off 1 bit C,R,W,T										
The communication object is enabled when the parameter "Field control" selects "Enable". When the communication											
object receives the value "0", the channel status of the device is saved and all channels are closed; when the											
communication object receives the value "1" recall the last saved scene state.											



2, 9, 16,23	Channel X, Alarm	Alarm:On/Off		1 bit	C,R,W,T				
This communication object is enabled when the parameter " Object Alarm " of "Channel X" selects "Yes". When the									
communication object receives 0, alarm off; when it receives 1, alarm on									
3,10,17,24	Channel X, Scene	8-bit Scene Nur	nber	1 Byte	C,R,W,T				
This communi	This communication object is enabled when the parameter "8-bit scene control " of "Channel X" selects "Enable". This								
communication object can send a 1-byte command to call the setting operation of corresponding scene number.									
The parameter setting options are 1 ~ 64. In fact, the scene message received by the communication object Scene,									
Channel X is 0 ~ 63. If the parameter is set to scene 1, the communication object Scene, Channel X receives the scene is									
0									
4,11,18,25	Channel X, Curtain	Up/Down		1 bit	C,R,W,T				
This communication object is enabled when "Enable" is selected for "Channel X". When the communication object									
receives the value "0", the curtain moves to the 0% position (the curtain is open). When the communication object									
receives the value "1", The curtains are moved to the 100% position (the curtains are closed).									
5,12,19,26	Channel X, Stop/Step	Stop/Step		1 bit	C,R,W,T				
This communication object is enabled when "Enable" is selected for "Channel X". This communication object is used for									
the jog operation of the curtain.									
6,13,20,27	Channel X, Position value	8-bit Value		1 Byte	C,R,W,T				
This communication object is enabled when "Enable" is selected for "Channel X". This object is used to receive the									
absolute rotation value of the corresponding output channel.									
7,14,21,28	Channel X, Timing cycle	On/Off		1 bit	C,R,W,T				
This communication object is enabled when " Timing cycle function " in " Channel X" " selects "Enable", when the									
communication object receives the value "1", the curtain motor's cyclic rotation function is executed; when the									
communication object receives the value "0", the cyclic rotation function stops									
8,15,22,29	Channel X, Status curtain	Position 0%-100	0%	1 byte	C,R,T				
This communication object is enabled when " Status response " in " Channel X" " selects "Enable", the value of this									
communication object can directly indicate the position of the curtains of the corresponding channel (Note: the status									
x% represents the percentage of the curtain closed to the position, for example: 0% means that the curtain is open and									
100% means that the curtain is closed)									
30,38,46,54	Switch, Interfa	ce X	On/Off	1 bit	C,R,W,T				
This communication object is enabled when "Function mode" in "Interface X" selects "Switch". When the dry contact is									
triggered, the channel sends corresponding ON or OFF instructions according to the corresponding mode.									
31,39,47,55	Blind, Interfac	e X	Up/Down	1 bit	C,R,W,T				
This communication object is enabled when "Function mode" in "Interface X" selects "Blind", when the dry contact is									
triggered, the channel sends the corresponding up or down instruction according to the corresponding mode.									
32,40,48,56	Blind, long, Int	terface X	Up/Down	1 bit	C,R,W,T				
This communication object is enabled when "long operation" in "Blind" of "Interface X" selects "yes", when the dry									



contact is triggered by long press, the channel sends the corresponding up or down instruction according to the									
corresponding mode.									
33,41,49,57	Blind value, Interface X	8-bit value	1 Byte	C,R,W,T					
This communication object is enabled when "Function mode" in "Interface X" selects "Blind position", when the dry									
contact is triggered, the channel sends the corresponding curtain height percentage instruction according to the									
corresponding mode.									
34,42,50,58	Dimming switch, Interface X	On/Off	1 bit	C,R,W,T					
This communication object is enabled when "Function mode" in "Interface X" selects "Dimming", when the dry contact									
is triggered by a short press, the channel sends the corresponding dimming on/off instruction according to the									
corresponding mode.									
35,43,51,59	Dimming level, Interface X	Brighter/Darker	4 bit	C,R,W,T					
This communication object is enabled when "Function mode" in "Interface X" selects "Dimming", when the dry contact									
is triggered by a long press, the channel sends corresponding series of relative dimming instructions according to the									
corresponding mode									
36,44,52,60	Dimming value, Interface X	8-bit value	1 Byte	C,R,W,T					
This communication object is enabled when "Function mode" in "Interface X" selects "Dimming position", when the dry									
contact is triggered, the channel sends absolute dimming instructions according to the setting percentage.									
37,45,53,61	Scene, Interface X	8-bit value	1 Byte	C,R,W,T					
This communication object is enabled when "Function mode" in "Interface X" selects "Scene", when the dry contact is									
triggered, the channel sends corresponding scene control instructions according to the corresponding mode.									
62c	Device status	On/Off	1 bit	C,R, T					
This communication object is enabled when the parameter "Device status" is selected to be "enabled". This									
communication object is used to detect the current condition of the device. When the value "01" is sent through this									
object, it indicates that the 220V power supply is normal. When the value "00" is sent, it indicates that the 220V power									
supply is abnormal.									

Table 1.1

7 Safe use and maintenance

(1) Read all instructions carefully before use $_{\circ}$

(2) Create a good ventilation environment.

(3) During use, pay attention to moisture, shock and dust.

(4) Strictly forbid to rain, contact with other liquids or corrosive gases.

(5) If it is wet or attacked by liquid, it should be dried in time.

(6) When the machine fails, please contact professional maintenance personnel or our company.



8 Contact

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