

0-10 V Dimming Actuator

Manual-Ver2.1

MD041601

MD061601



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Overview

This manual provides you with detailed technical information on the dimming actuator (0-10V) output, including installation and programming details, and explains how to use the dimming actuator (0-10V output) based on practical examples. For easy installation in the distribution box, the dimming actuator (0-10V output) is designed as a modular installation device, which can be installed on a 35 mm DIN rail. Dimming actuator (0-10V output) is used to control 0-10V dimming. Installed together with other loads via EIB/ KNX bus to become a system. The entire system is set up and operated using the engineering design tool software ETS.

2 Product and function overview

The 4-way dimming actuator (0-10V) modules are modular installation devices with 4-way 0-10V 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 execution module has 4 channels, each channel includes a relay switch output and a 0-10V output. 0-10V dimming signal interface and 0-10V dimming transformer can dimming incandescent, fluorescent, LED and other lamps. With manual control buttons, LED indicates the dimming status of each circuit.

- (1) Control the regulator or electronic ballast through the 0-10V interface output;
- (2) With 4/6 way 16A switch control
- (3) With manual control dimming function;
- (4) It can realize relative dimming function and absolute dimming function;
- (5) With status report feedback function;
- (6) With timing cycle function, it can realize the function of stair light and cycle flashing;
- (7) It has the functions of on-site saving and restoring;
- (8) The selection function of the relay switch state after the bus voltage is restored;
- (9) With scene control function.

(10) 4-way I/O input function, which can input control commands such as switches, curtains, dimming, and scenes.

3 Detailed parameters

Rated voltage	200~240V AC
Working frequency	50/60Hz
Bus voltage	21-30VDC
Bus current	≤12mA
Working frequency	< 3.2W (4 ways)



	<4.2W (6 ways)
Output voltage	0-10VDC(output) , Each loop output Max.40mA
Relay switching current (per circuit)	Pure resistive load: Max 16A
	Incandescent: Max 10A
	Fluorescent lamps with electronic ballast: Max 4 A
Size(L x W x H)	145mmX90mmX64mm
Material	PA66
Weight(approx.)	0.36KG(4 ways)、0.4KG(6 ways)
Installation method	35mm DINDIN rail installation
Working temperature	-5°C- 45°C
Storage temperature	-20°C- 55°C
Relative humidity	max 90%

Dimensional drawing and wiring diagrams 4

4.1 MD041601



4.2 MD061601

dimensional drawing





wiring diagram



LED Driver To LED light



5 Product operation instruction

5.1 MD041601



- Description: Relay output terminals: fire in and fire out, the aperture can be connected to φ4 wires;
- Description: 200~240VAC power supply connection port, the aperture can be connected to φ4 wire;
- Description: 0-10V output terminals, the aperture can be connected to φ4 wires;
- Description: dry contact input terminals;
- 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: Each loop control button, when the indicator light on the Manual button is on, long press the upper row button, the brightness of the corresponding channel will increase (maximum increase to the maximum brightness value set), release it to stop; short press the upper row button, the brightness value has been increased to the maximum value set; long press the bottom button, the brightness of the corresponding channel will decrease (minimum to 0%), release it to stop; short press the bottom button, the brightness value has been reduced to 0%. (The speed of dimming changes depends on the time set in the VD library, 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);
- Explanation: 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, the indicator light on the button will light up in red, and you can manually control the CH1-CH4 channels.



5.2 **MD061601**



- Description: Relay output terminals: fire in and fire out, the aperture can be connected to φ4 wires;
- Description: 200~240VAC power supply connection port, the aperture can be connected to φ4 wire;
- Description: 0-10V output terminals, the aperture can be connected to φ4 wires;
- Description: dry contact input terminals;
- 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: Each loop control button, when the indicator light on the Manual button is on, long press the upper
 row button, the brightness of the corresponding channel will increase (maximum increase to the maximum
 brightness value set), release it to stop; short press the upper row button, the brightness value has been
 increased to the maximum value set; long press the bottom button, the brightness of the corresponding channel
 will decrease (minimum to 0%), release it to stop; short press the bottom button, the brightness value has been
 reduced to 0%. (The speed of dimming changes depends on the time set in the VD library, 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);
- Explanation: 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 button for bus and manual control and channel switching. Press the button, the indicator light on the button will light up red, and you can manually control the CH1-CH4 channels. Press the button again, the indicator light on the button will turn green, and you can manually control CH5 -CH6 channel, press the button again, the indicator light on the button is on and off, and it is in the bus control.



6 Parameter setting and communication object description

6.1 Dimming 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 dimming actuator (0-10V output) parameter setting interface in ETS5, as shown in Figure 6.1.1. The parameter "Function select" indicates the function output selection, the parameter "Channel X" indicates the output of the corresponding channel, and the parameter "Field control" indicates the field control function. When the "off" command is sent, the current brightness percentage of each channel is saved and the channel is closed; When the "on" command is sent, the last saved relay state is recalled. (Note: You cannot send the "off" command twice consecutively, because the current dimming state is saved when the "off" command is sent for the first time, but when the "off" command is sent, overwriting the current dimming state saved for the first time).

Available options: Disable, Enable

- Dimming Actuator	Dimming channel	
Dimming Function	Channel A	O Disabled C Enabled
Universal Interface	Channel B	O Disabled C Enabled
Device Situation	Channel C	O Disabled C Enabled
	Channel D	O Disabled Enabled
	Channel E	O Disabled C Enabled
	Channel F	O Disabled C Enabled
	Channel G	O Disabled
	Channel H	O Disabled
	Dimming select	
	Function select	Universal dimmer 🔻
组对象参数		

Figure 6.1.1

2) Select "Enable" for Channel X (Channel A~Channel H has a total of 8 circuits. If it is a 4-way dimming actuator, select "Enable" for Channel A-Channel D, and select "Disable" for the other 4 channels; if it is For 6-way dimming actuators, select "Enable" for Channel A—Channel F.) After the setting is completed, the interface is shown in Figure 6.1.2, and the 6 options in the red box appear.



 Dimming Actuator 	Dimming channel		
Dimming Function	Channel A	Disabled O Enabled	
Channel A	Channel B	Obisabled Enabled	
Channel B	Channel C	O Disabled O Enabled	
Channel C	Channel D	Disabled Disabled	
Channel D	Channel E	Disabled O Enabled	
Channel E	Channel F	Disabled O Enabled	
Channel F	Channel G	O Disabled	
Universal Interface	Channel H	Disabled Enabled	
Device Situation	Dimming select		
	Function select	0-10V dimmer 🔻	

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

Dimming Actuator	Function for blocking	Oisabled O Enabled	
Dimming Function	Blocking value after voltage recovery	unblocking	•
Channel A	Blocking value	blocking = 1, unblocking = 0 blocking = 0, unblocking = 1	
A:Scene	Maximum dimming value	100%	•
A:Timing cycle	Dimming time from 0% to 100%(in seconds)	5	÷.
Universal Interface	Behaviour on bus voltage recovery	as before bus voltage failure	•
Device Situation	Switching On to	assigned dimming value	•
	Switching On value	100%	•
	Switching Off to	0%	-
	Switching status response	No Ves	
	Transmission of switching status	always in operation	•
	Dimming status response	No Ves	
	Transmission of dimming status	always in operation	•
	8-bit scene control	Oisabled O Enabled	默认值: using read request
	Timing cycle function	O Disabled O Enabled	

Figure 6.1.3

Parameter	Description
Function for blocking	Function for blocking, when "Enabled" is selected, parameter "Blocking value after voltage
	recovery" will appear, options: "unblocking", "blocking", "as before voltage failure";
	parameter "Blocking value", options: "blocking=1, unblocking=0".
Maximum dimming	Maximum dimming value, options: 0%, 1%, 2%100%;
value	
Dimming time from 0%	Dimming time from 0% to 100%, can be filled in: 0, 1, 2, 3250;
to 100% [in seconds]	
Behavior on bus	Action of dimming actuator after voltage recovery, options: "no action", "dimming up",

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voltage recovery	"dimming down", "as before bus voltage failure".
Switching On to	Indicates the dimming value when dimming is pressed, options: maximum dimming value,
	last dimming value, assigned dimming value; when assigned dimming value is selected,
	parameter Switching On value will appear, options: 1%, 2%, 3%100%
Switching Off to	Indicates the dimming value when dimming off is pressed, options: 1%, 2%, 3%100%
Switching status	Switching status response, options: Yes, No. When Yes is selected, parameter transmission
response	of switching status will appear, options: using read request only (Status response only when
	sending request), on change in status (Status change immediately with status feedback),
	Always in operation (Feedback whenever control data is sent) .
Dimming status	Dimming status response, options: Yes, No. When Yes is selected, parameter transmission
response	of switching status will appear, options: using read request only (Status response only when
	sending request), on change in status (Status change immediately with status feedback),
	Always in operation (Feedback whenever control data is sent) .
Behaviour on bus	Represents bus voltage recovery status after power failure, options: Switch on, Switch off, As
voltage recovery	before voltage failure;
8-bit scene control	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 "Delay time before
	operation[0-255s]" represents the time that the scene is delayed when the scene is called,
	can be filled in: 0, 1, 2, 3255 "; Channel A assignment 1—8" represents the setting of the
	scene number, which can be set to 1-64, and " Output dimming Value " represents the
	channel brightness corresponding to the scene number, options: 0%, 1%100%(
Timing cycle function	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
	"Brightness value" represents the maximum brightness value in a cycle, options: 0%, 1%,
	2%100%; "Fade time of brighter[0-255s]" represents the gradient time from minimum
	brightness to maximum brightness,can be filled in:0, 1, 2255s; "Brighten
	duration[0-255min]" indicates the time after which the maximum brightness is reached, can
	be filled in: 0, 1, 2255min;
	"Brighten duration[0-59s], indicates the time after which the maximum brightness is
	reached, can be filled in: 0, 1, 259s; "Darkness value" represents the minimum brightness
	value in a cycle, options: 0%, 1%100%; "Fade time of darker[0-255s]" represents the
	gradient time from maximum brightness to minimum brightness,can be filled in:0, 1,
	2255s; "Darken duration[0-255min]" indicates the time after which the minimum
	brightness is reached, can be filled in: 0, 1, 2255min; "Darken duration[0-255s]" indicates



the time after which the minimum brightness is reached, can be filled in: 0, 1, 2.....255s; "Cycle number(0=unlimited)" Represents the number of cycles, can be filled in any value,

A: Scene assignment 1 [1--64] 0 Dimming Actuator Output dimming value 0% Dimming Function A: Scene assignment 2 [1--64] 0 Channel A 0% Output dimming value A:scene A: Scene assignment 3 [1--64] 0 Channel B Channel C Output dimming value 0% Channel D A: Scene assignment 4 [1--64] 0 Universal Interface 0% Output dimming value Device Situation A: Scene assignment 5 [1--64] 0 Output dimming value 0% A: Scene assignment 6 [1--64] 0 Output dimming value 0% * A: Scene assignment 7 [1--64] 0 0% Output dimming value Channels 参数 组对象

where 0 means infinite loop.

Figure 6.1.4

Dimming Function Fade time of brighter(in seconds) 5 Channel A Brighten duration(in minutes) 0 Ascene Brighten duration(in seconds) 30 Attiming cycle Darkness value 0% Channel B Fade time of darker(in seconds) 5 Channel C Darken duration(in minutes) 0 Channel D Darken duration(in seconds) 5 Universal Interface Cycle number(0=unlimited) 1	Dimming Actuator	Brightness value	100%	
Channel A Brighten duration(in minutes) 0 Ascene Brighten duration(in seconds) 30 A.Timing cycle Darkness value 0% Channel B Fade time of darker(in seconds) 5 Channel C Darken duration(in minutes) 0 Channel D Darken duration(in seconds) 0 Universal Interface Cycle number(0=unlimited) 1	Dimming Function	Fade time of brighter(in seconds)	5	
Asseene Brighten duration(in seconds) 30 A:Timing cycle Darkness value 0% Channel B Fade time of darker(in seconds) 5 Channel C Darken duration(in minutes) 0 Channel D Darken duration(in seconds) 0 Universal Interface Cycle number(0=unlimited) 1	Channel A	Brighten duration(in minutes)	0	
A:Timing cycle Darkness value 0% Channel B Fade time of darker(in seconds) 5 Channel C Darken duration(in minutes) 0 Channel D Darken duration(in seconds) 0 Universal Interface Cycle number(0=unlimited) 1	A:scene	Brighten duration(in seconds)	30	
Channel B Fade time of darker(in seconds) 5 Channel C Darken duration(in minutes) 0 Channel D Darken duration(in seconds) 0 Universal Interface Cycle number(0=unlimited) 1	A:Timing cycle	Darkness value	0%	
Channel C Darken duration(in minutes) 0 Channel D Darken duration(in seconds) 0 Universal Interface Cycle number(0=unlimited) 1	Channel B	Fade time of darker(in seconds)	5	
Channel D Darken duration(in seconds) 0 Universal Interface Cycle number(0=unlimited) 1	Channel C	Darken duration(in minutes)	0	
Universal Interface Cycle number(0=unlimited) 1	Channel D	Darken duration(in seconds)	0	
	Universal Interface	Cycle number(0=unlimited)	1	
Device Situation	Device Situation			

Figure 6.1.5

4) Parameter "function select" represents function select for dimming, options: "Universal dimmer", "0-10V dimmer",

"1-10V dimmer" .

6.2 Parameter setting of dry contact interface

1) Click "Universal Interface" as shown in Figure 6.1.6, Universal Interface A-D is set to enable, four dry contact interfaces will be enabled.



- Dimming Actua	tor Universa	Interface A	O Disabled) Enabled
Dimming Fund	tion Universa	Interface B	O Disabled) Enabled
Channel A	Universa	Interface C	O Disabled) Enabled
Channel B	Universa	Interface D	Disabled) Enabled
Channel C				
Channel D				
Universal Inte	erface			
Device Situatio	n			
组对象 Chan	nels 参数			

Figure 6.1.6

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 6.1.7.

Dimming Actuator	Function mode	Switch	
Dimming Function	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 6.1.7

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

(1) Switch mode

Parameter	Description
	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
Switch mode	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

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factor[1-255] value) .

debounce time Debounce time, options: 10ms, 20ms......100ms

(2) Blind mode

Parameter	Description
Blind mode	Curtain action controlled by corresponding circuit when dry contact is triggered, options:
	up, down, toggle;
	Long press operation, options: yes, no. When yes is selected, parameter "Long operation
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	
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:

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	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:
• •			,	

	Manual status	Disabled O Enabled	
Functions	Transmission of manual status	using read request only	•
Channel A	ON time during manual mode	1 minutes	•
Channel B	Device status		
Channel C	Device status		
Channel D	Device status	Disabled Senabled	
Universal Interface	Transmission of device status	using read request only	•
Interface A			
Interface B			
Interface C			
Interface D			
Device Situation			
Batter Channels Att			

Figure 6.3.1

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

Parameter	Description
Transmission of manual	Transmission of manual status, options: "using read request only" (Status response only
status	when sending request), "on change in status" (Status change immediately with 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	ON time during manual mode, options: "1 minute", "2minutes " "120 minutes",
mode	"unlimited" .

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

Parameter	Description
Transmission of manual	Transmission of manual status, options: "using read request only" (Status response only
status	when sending request) , "on change in status" (Status change immediately with 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 dimming actuator has a total of 97 objects, as shown in Figure 6.2.1, 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.

序号▲	名称	对象功能	描述	群组地址	长度	С	R	W	/ т	U	数据类型	优先级
₽ 0	Channel A, Block	Block / Unblock			1 bit	С	R	W	Т	U	switch	低
₹2	Channel A, Switching	On / Off			1 bit	С	R	W	Т	U	switch	低
₽3	Channel A, Dimming	Brighter / Darker			4 bit	С	R	W	Т	U	dimming c.	低
₹4	Channel A, Dimming value	8-bit Value			1 byte	С	R	W	Т	U	percentag	低
₹ 10	Channel B, Switching	On / Off			1 bit	С	R	W	Т	U	switch	低
₹11	Channel B, Dimming	Brighter / Darker			4 bit	С	R	W	Т	U	dimming c.	低
₽ 12	Channel B, Dimming value	8-bit Value			1 byte	С	R	W	Т	U	percentag	. 低
₹18	Channel C, Switching	On / Off			1 bit	С	R	W	Т	U	switch	低
₹ 19	Channel C, Dimming	Brighter / Darker			4 bit	С	R	W	Т	U	dimming c.	低
₹ 20	Channel C, Dimming value	8-bit Value			1 byte	С	R	W	Т	U	percentag	低
₹ 26	Channel D, Switching	On / Off			1 bit	С	R	W	Т	U	switch	低
27	Channel D, Dimming	Brighter / Darker			4 bit	С	R	W	Т	U	dimming c.	低
28	Channel D, Dimming value	8-bit Value			1 byte	С	R	W	Т	U	percentag	低
₹64	Switch, Interface A	On / Off			1 bit	С	R	W	Т	U	switch	低
72	Switch, Interface B	On / Off			1 bit	С	R	W	Т	U	switch	低
₹ 80	Switch, Interface C	On / Off			1 bit	С	R	W	Т	U	switch	低
2 88	Switch, Interface D	On / Off			1 bit	С	R	W	Т	U	switch	低
₹ 96	Manual status	On / Off			1 bit	С	R	W	Т	U	switch	低
₽97	Device status	On / Off			1 bit	С	R	-	Т	U	switch	低



Number	Name	Communication object function	Data type	Attribute			
0,8,16,24,32,40,48,56	Channel A, Block	Block / Unblock	1bit	C,R,W,T,U			
This communication object is used to enable and contact the blocking function. When the value "01" is sent, the							
blocking function is enabled. This circuit cannot send any value to the bus control device. When the value "00" is sent,							
the blocking function is released, and the dimming actuator receives and sends normally. data.							
1,9,17,25,33,41,49,57	Channel X, Scene	8-bit Value	1 Byte	C,R,W,T			
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							
2,10,18,24,32,40,48,5	Channel X, Switching	On/Off	1 bit	C,R,W,T			
6							
The communication object is enabled when the parameter " Channel X " selects "Enable", the communication object							
12							



receives 1, turn on the relay and adjust the dimming to the set maximum value; when the communication object									
receives the value "0",	close the r	elay after the di	imming output re	eaches the minimur	n				
3,11,19,27,35,43,51,5	Channel	X, Dimming	Brighter/Darker		4 bit		C,R,	W,T	
9									
The communication ob	oject is ena	bled when the	parameter " Char	inel X " selects "Ena	able", th	nis obje	ct is u	ised to receive	
the relative dimming va	alue of the	corresponding	output channel.	Dimming comman	ds inclu	ıde Brig	hter,	Darker, and	
Stop.									
4,12,20,28,36,44,52,6	Channel	X, Dimming	8-bit Value		1 Byte	•	C,R,	W,T	
0	Value								
The communication ob	ject is ena	bled when the	parameter " Char	inel X " selects "Ena	able", tł	nis obje	ct is u	ised to receive	
the absolute dimming	value of th	e correspondin	g output channel						
5,13,21,29,37,45,53,6	Channel	X, Timing	On/Off		1 bit C,R		C,R,	W,T	
1	cycle								
The communication ob	The communication object is enabled when the parameter "Timing cycle function" in " Channel X " selects "Enable",								
when the communication object receives the value "1", the cyclic dimming function is executed; when the									
communication object receives the value "0", the cyclic dimming function stops.									
6,14,22,30,38,46,54,6	Channel	X, Status On/Off			1bit C,		C,R,	,R,T	
2	switching]							
The communication ob	ject is ena	bled when the p	oarameter "Switch	ing status response	e" in " C	Channel	X " se	elects "Yes", the	
value of this communic	cation obje	ect can directly i	ndicate the dimm	ner switch status of	the co	rrespor	ding	channel.	
7,15,23,31,39,47,55,6	Channel	X, Status	0-100%		1 Byte	•	C,R,	Т	
3	dimming	value							
The communication ob	ject is ena	bled when the p	barameter "Dimm	ing status response	e" in " C	Channel	X " se	elects "Yes", the	
value of this communication object can directly indicate the dimming percentage of the corresponding channel.									
64,72,80,88	64,72,80,88 Switch, Interfac		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.									
65,73,81,89 Blind, Interface		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.									
66,74,82,90 Blind, long, Inte		erface 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.									
67,75,83,91			6 N						
		Blind value,Int	erface X	8-bit value		1 Byte	;	C,R,W,T	

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contact is triggered, the channel sends the corresponding curtain height percentage instruction according to the							
corresponding mode.							
68,76,84,92	Dimming switch, Interface X	On/Off	1 bit	C,R,W,T			
This communication object is en	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	g dimming on/off instruct	tion accordin	g to the			
corresponding mode.							
69,77,85,93	Dimming switch, Interface X	Brighter/Darker	4 bit	C,R,W,T			
This communication object is en	abled when "Function mode" in "	Interface X" selects "Dim	ming", when	the dry contact			
is triggered by a long press, the channel sends corresponding series of relative dimming instructions according to the							
corresponding mode							
70,78,86,94	Dimming switch, 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.							
71,79,87,95	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.							
96	Manual status	On/Off	1 bit	C,R, T			
The communication object is enabled when the parameter " Manual status " selects "Enable", this communication							
object is used to indicate the switch of manual mode (Manual mode=on) and bus mode (Manual mode=off).							
When switching to manual mode (press the bus on the switch actuator and the manual control switch button, the							
"Manual" indicator lights up), you can control the on / off of each circuit on the corresponding button on the module.							
97	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.							

7 Safe use and maintenance

- (1) Read all instructions carefully before use.
- (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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