

- Product description

- Opening and closing control of electric curtains, of dry contact or AC power line control type by DALI
- The maximum current through each contact is 2A@230VAC
- With input interface for connecting to control keyboard, it can directly control curtain opening and closing.
- It can control the opening and closing journey of AC-controlled motor or dry-contact weak-current-controlled motor. It also supports the control of blade rotation angle of shutter motor.



- Technical parameters

Input voltage range	100 ~ 240VAC
Input frequency	50/60Hz
Power	<2W (Max)
Output relay contact current	10A
Operating temperature	-10°C ~ 50°C
Storing temperature	-20°C ~ 60°C
Humidity	5% ~ 85%
Protection level	IP20

Standard of Operation
IEC 62386-101(DALI protocol standard)
IEC 62386-102(DALI protocol standard)

- Function choice



- DIP switch selection

Control mode	DIP SW	Address	Application
Level mode	 00	1ADD	Common motor controlled by AC power lines or weak electric dry contacts
Pulse mode	 01	1ADD	Common motor controlled by weak electric dry contacts
	 10	1ADD	Louver motor controlled by weak electric dry contacts
	 11	1ADD	Soft Start Motor (Delay 2.5 seconds) controlled by weak electric dry contacts

- Control mode description

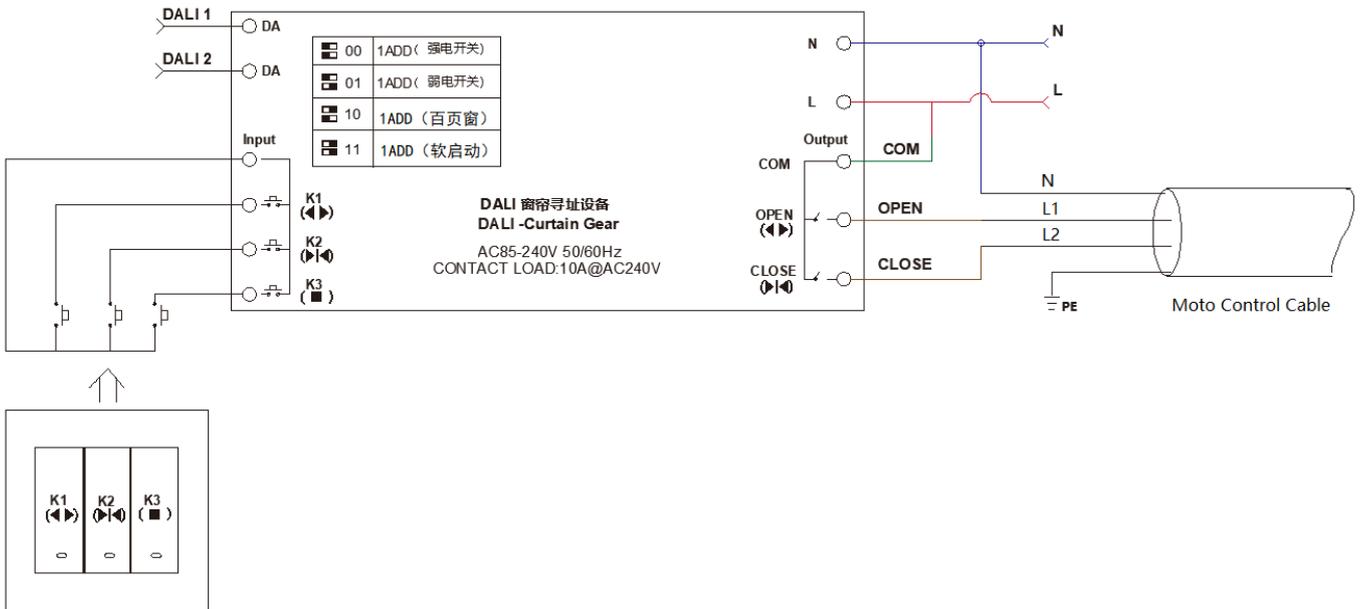
Level mode		
Port / Action	OPEN & COM	CLOSE & COM
Opening	Connect	Disconnect
Stop	Connect for 1.5s and then disconnect at the same time	
Closing	Disconnect	Connect

Pulse mode		
Port / Action	OPEN & COM	CLOSE & COM
Opening	Connect for 0.5s	Disconnect
Stop in Opening	Connect for 0.5s again	Disconnect
Closing	Disconnect	Connect for 0.5s
Stop in closing	Disconnect	Connect for 0.5s again

- Wiring Instructions

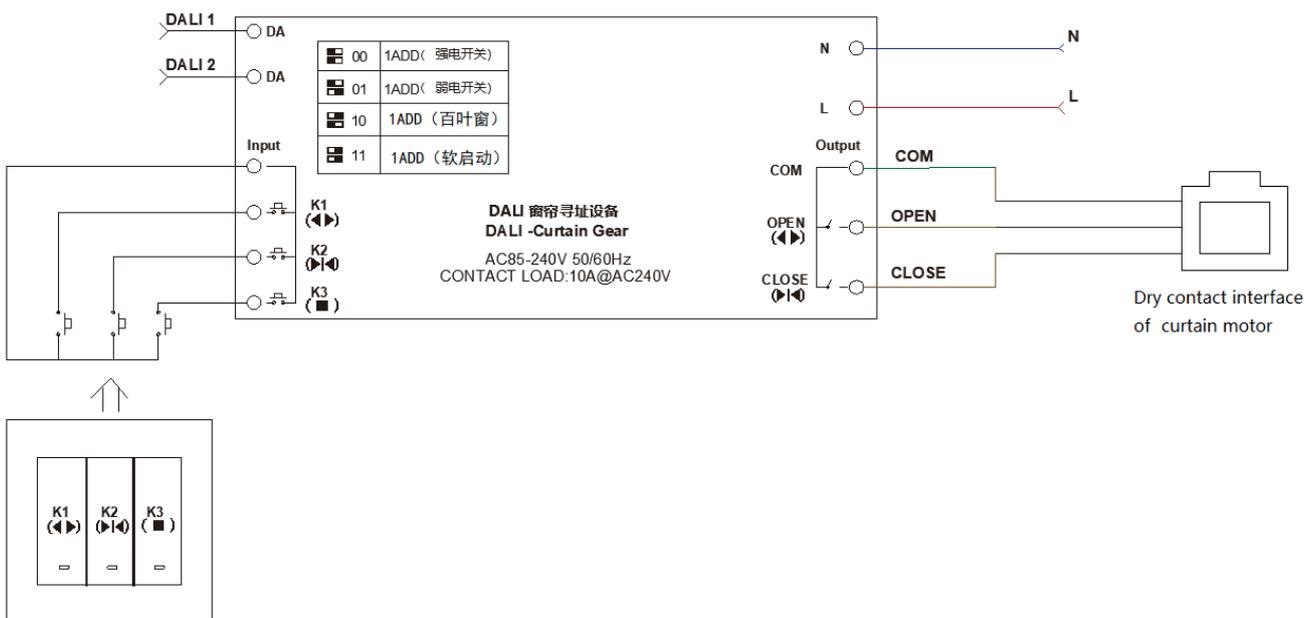
1. Four AC power lines interface

Including: opening line L1, closing line L2, neutral power N, protective ground line PE.



2. Three dry contacts interface

Including: OPEN line, CLOSE line, COM line.



- instructions for external keys

mode	button	Action	Function description
Curtain control	K1	Press for short	OPEN&COM will be switched on until the curtain is fully opened.
		Press and hold	OPEN&COM will be switched on for curtain opening until K1 is released.
	K2	Press for short	CLOSE&COM will be switched on until the curtain is fully closed.
		Press and hold	CLOSE&COM will be switched on for curtain closing until K2 is released.
	K3	Press	OPEN&COM and CLOSE&COM will be switched off and the curtain will stop running.
	K1+K2	Press and hold for longer than 5 seconds	Curtain will be manually configured to maximum traveling distance. (See below for a more detailed explanation)

- Configuration of the maximum length in curtain mode

A. Configuration by manual:

Step1: Press and hold button K1 and K2 simultaneously for longer than 5 seconds then release the buttons, you will see both LED1 and LED2 lights flash at the same time, waiting for the curtain to reach its maximum length (The maximum extent to which the curtain can be opened).

Step2: Press K2 for short to cause the curtain closing.

Step3: When curtain is running at its maximum length, press K3 for short, then the max. Run

Time (maximum length) will be recorded by the driver.

B. Configuration by software:

In the parameter option, the total travel time of curtain and travel length (level 1-5) for one step need to be set.

- 1、 Setting the Run Time (maximum length) for curtain: generally speaking the curtain travels at about 5cm/s, which means that it would take roughly 20 seconds for it to travel 1 meter. Based on this information, the user can estimate the time the curtain would take to reach its maximum length. User can also determine the curtain' s exact Run Time by executing the command Max and Min.
- 2、 "UP/DOWM" control settings: refers to the proportion of curtain run-time to the maximum run-time per execution of UP or DOWN command. For example: 1 refers to that each UP/DOWM command controls only 1/5 of the total run-time, which is generally recommended to be set to 1.
- 3、 Parameter settings of "time difference between UP running and Down running" :
 - (a) Because of the influence of gravity, the UP and Down maximum run-time of the vertical curtain will be different. Therefore, for the type of vertical curtain motor, this parameter needs to be set. The general reference setting is 10-15, and the specific value needs to be set in the field.
 - (b) For the horizontal curtain motor type, the parameter can be generally set to 0;

Note:

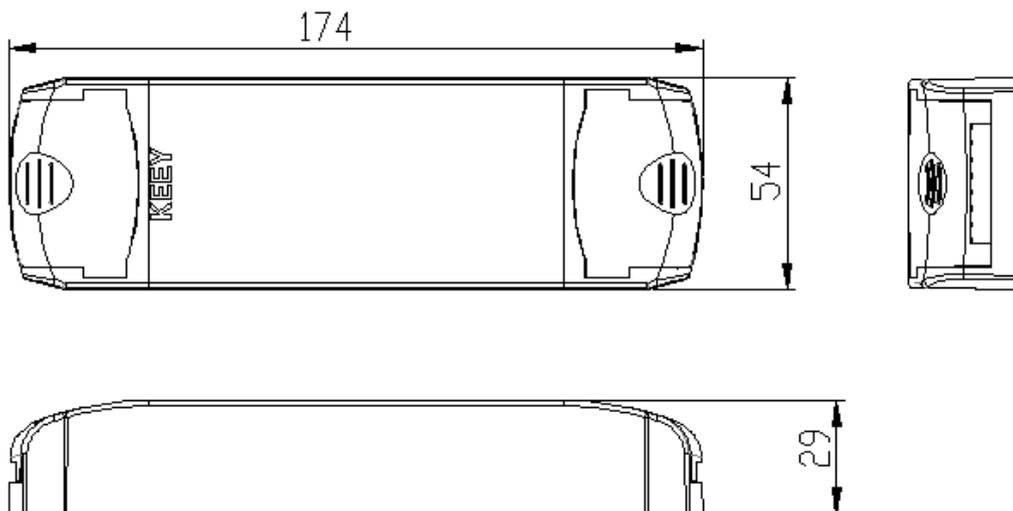
1. Before setting the run-time of the motor by software or manual keys, the physical limit of the maximum travel of the motor opening and closing action must be set in advance in accordance with the operation guidelines provided by the motor manufacturer.
2. Both the software and manual configuration options are able to configure the run-time of the motor. User can pick whichever one they like the most.

- DALI command and motor action comparison table

DALI command	Motor action
Up	(Step-open) Execute the opening action according to the one-step travel time settings
Down	(Step-close) Execute the closing action according

	to the one-step travel time settings
Max.	Open to maximum
Min.	Close to minimum
OFF	Stop running
Intensity (DAP) 0-254 (0-100%)	Run-time Control (Linear Proportional Curve)
Step Up	In the shutter mode, the blade rotation angle is controlled, which is divided into five levels, each with a control time of 120 MS.
Step Down	
<p>Note: When the control target address of the above action instructions is ALL (broadcast), the curtain driver (control gear) does not respond.</p>	

- Product dimension



- Examples of the installation and application

