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K4672M2S

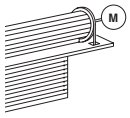
Actuator / control for rolling shutter

Description

Actuator for flush mounted 2-module rolling shutters, with 2 internal relays. It is possible to manage the specific position of the rolling shutter. The device can also be configured to manage a remote actuator.
In case of management of groups of lights, it is possible to configure the return state (please check the production date strating from 25W49).

Technical data

Operating voltage:	110 – 230 Vac
Operating power supply with SCS BUS:	22 – 27 Vdc
Power consumption at maximum LED intensity:	8.7 mA (stand-by) 17 mA (max - single load) 25.4 mA (max - double load)
Clamp dimension:	2 x 2,5 mm2
Operating temperature:	5 – 45 °C

		
Loads	Reducer motors for rolling shutters	
230 Vac	460 W	2 A
110 Vac	250 W	2 A

Dimensional data

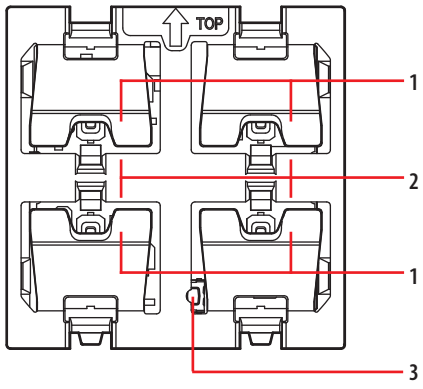
Size: 2 flush mounted modules.

List of functions

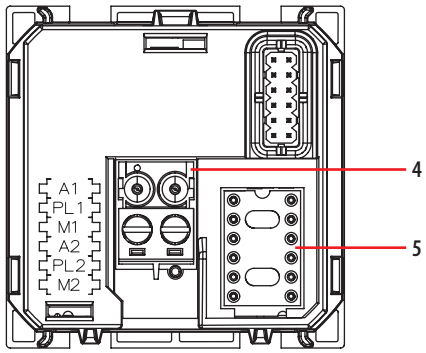
The device performs the following functions:
1. ACTUATOR MODE FOR ROLLING SHUTTER AUTOMATION WITH LOCAL CONTROL
2. ACTUATOR FOR 1 LOAD (SHUTTERS AUTOMATION) WITH LOCAL CONTROL BY THE LEFT BUTTON AND REMOTE ACTUATOR OR SCENARIO CONTROL BY THE RIGHT BUTTON
3. MODE OF OPERATION OF THE CONTROL BY THE RIGHT BUTTON
4. PLUS PROGRAMMED SCENARIO ACTIVATION

See the following pages for the configuration procedures.

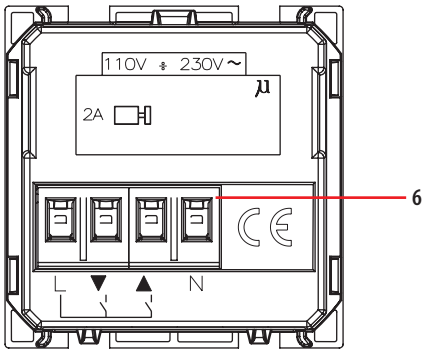
Control module front view



Control module rear view



Relay module rear view



Legend

1. Control pushbuttons
2. Status notification LED
   Blue steady: load ON
   White steady: load OFF
   Flashing: object not configured or no neutral
3. LED pushbutton
4. BUS connector
5. Configurator socket
6. Clamps (2 x 2.5 mm2) connection to the load

Actuator / control for rolling shutter

Configuration

For device configuration and installation and for any other information, refer to the App or documentation that can be downloaded from the on-line catalogue of the device.

Download App

Home + Project

Android: it is recommended the use of the latest version of Android with access to Google Play

Google Play

iOS: it is recommended the use of the latest version of iOS or iPadOS

App Store

In addition, you can configure the device using the MyHOME_Suite software, to have many more options of configuration, or physical configurators connected to the appropriate sockets.

1. Actuator mode for rolling shutter automation with local control

Configure A1, M1 and PL1 to define the local actuator address and mode.

1.1 Addressing

Address type		Virtual configuration (MyHOME_Suite)	Physical configuration
Apartment	Room	0 – 10	A1=1 – 9
	Lighting point	0 – 15	PL1=1 – 9

To configure the group address (1-10) from 0 to 255 use the MyHOME_Suite virtual configuration.

1.2 Automation

Virtual configuration (MyHOME_Suite) *				Physical configuration	
				Standard motor	Pulse motor
Function			Parameter / setting		
Shutter UP/DOWN with STOP after 2 minutes. The actuator ignores Room and General controls			Master PUL	M1= PUL	M1= 6
Shutter UP/DOWN with STOP after the defined time			Master, Slave	M1= SLA	M1= 7
UP/DOWN monostable			-	M1= ↑↓M	M1= 4
UP/DOWN bistable			-	M1=↑↓ or 0	M1= 3
UP/DOWN	Monostable Bistable	short pressure long pressure	-	M1= 1	M1= 5

* Before setting the parameters, in the field "Motor type" select if the motor that automates the rolling shutter is "Standard" or "Pulse".

To use "Actuator as Slave with PUL function", the "Load type" (Actuator, Blinds, Curtains, Gate, Garage door) and define the STOP time 1 – 60 sec. use the MyHOME_Suite virtual configuration.

Actuator / control for rolling shutter

2. Actuator for 1 load (shutters automation) with local control by the left button and remote actuator or scenario control by the right button

2.1 Addressing

Configure A1, M1 and PL1 to define the local actuator address and mode of operation (controlled by the left button) as specified in paragraphs 1.1 and 1.3.
Configure A2 PL2 to define the address of the remote actuator to be managed, according to the following table:

Address type		Virtual configuration (MyHOME_Suite)	Physical configuration
Point-to-point	Room	0 – 10	A2= 1 – 9
	Lighting point	0 – 15	PL2= 1 – 9
Room		0 – 10	A2= AMB, PL2= 1 – 9
Group		1 – 255	A2= GR, PL2= 1 – 9
General		General	A2= GEN

To configure the Environment and light point reference addresses of an actuator use a MyHOME_Suite virtual configuration.

2.2 Mode of operation of the remote control

See chapter 3.

3. Mode of operation of the control by the right button

3.1 ON/OFF control:

Virtual configuration (MyHOME_Suite)		Physical configuration
Function	Parameter / setting	
Cyclic		M2=0
ON		M2=ON
OFF		M2=OFF
Button		M2=PUL
Timed ON*	0,5 sec	M=8
	30 sec	M=7
	1 min	M=1
	2 min	M=2

* For other timing functions complete the virtual configuration using MyHOME_Suite.

3.1.1 ON/OFF Control and ADJUSTMENT (Point-to-Point only):

Virtual configuration (MyHOME_Suite)	Physical configuration
Parameter / setting	
ON/OFF and cyclic ADJUSTMENT. ON/OFF when pressing briefly and adjustment when holding down.	M1, M2=0
ON with top button, OFF with bottom button and DIMMER when held down	M1, M2=0/I

For the "ON/OFF with adjustment" function, "Cyclic with custom point-to-point adjustment", "ON/OFF with custom point-to-point adjustment", "Cyclic with custom adjustment" and "Custom cyclic dimmer with no adjustment" use virtual configuration via MyHOME_Suite.

With the virtual configuration, for the room, group or general controls, you can set a lighting point address for the return of the load status.

Actuator / control for rolling shutter

3.2. Automation control

3.2.1 Addressing

Address type		Virtual configuration (MyHOME_Suite)	Physical configuration
Point-to-point	Room	0-10	A1, A2=1-9
	Lighting point	0-15	PL1, PL2=1-9
Room		0-10	A1, A2=AMB, PL1, PL2=1-9
Group		1-255	A1, A2=GR, PL1, PL2=1-9
General		general	A1, A2=GEN

Note: With the virtual configuration, for the room, group or general controls, you can set a lighting point address for the return of the load status.

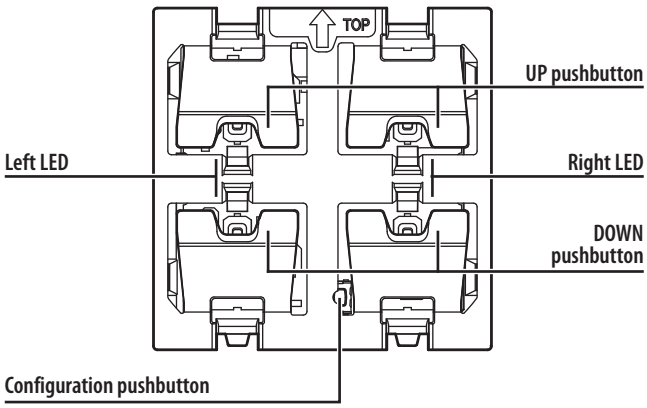
3.2.2 Mode

Virtual configuration (MyHOME_Suite)	Physical configuration
Parameter / setting	
Bistable control	M1, M2=↑↓
Monostable control	M1, M2=↑↓M
Bistable control and lath control	M1, M2=6

4. Plus programmed scenario activation

To configure address 1 - 2047 of the scenario and number 0 - 31 use MyHOME_Suite virtual configuration.

Calibration of the shutter position



Manual calibration of the shutter position

This operation ensures that the actuator saves the shutter opening and closing positions.

1. Press the configuration pushbutton for at least 3 seconds.All the LEDs will come on blue.
2. Release the configuration pushbutton.The left LED will flash quickly.
3. Press and release the left "UP" pushbutton.The shutter will move upwards, and the left LED will flash slowly.
4. Once the shutter has reached the maximum opening position, press the left "DOWN" pushbutton. The shutter will move downwards, and the left LED will flash slowly. During this stage, the actuator measures and saves the time it takes the shutter to close.
5. When the shutter is fully closed, press and release the left "UP" pushbutton. The shutter will move upwards, and the left LED will flash slowly. During this stage, to enable the actuator to measure and save the time it takes the shutter to open.
6. When the shutter maximum opening position is reached, press the left "DOWN"pushbutton again to complete the calibration procedure. The left LEDs will return to white steady.

WARNING: the calibration precision, and therefore the control of the shutter position, depends on the accuracy with which the limit switch positions are manually detected during the calibration itself.

Saving the new shutter position (Preset)

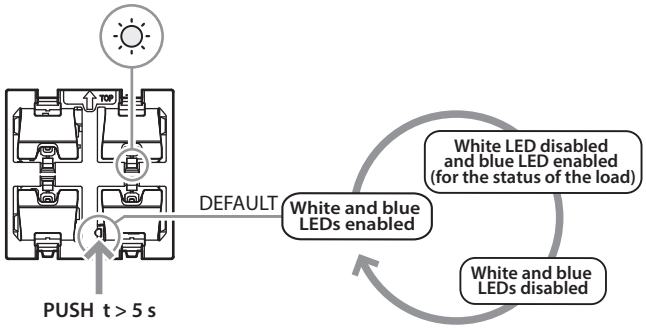
The Preset function gives the possibility of setting the shutter in one of the 9 positions that can be selected through the configurator in the Pre socket. It is also possible to set a different position as required by the user.The procedure, which can be performed from the control device, or the actuator, is as follows:

1. Press the "UP" and "DOWN" pushbuttons to move the shutter to the desired position.
2. Press the STOP pushbutton for at least 10 seconds.The actuator saves the position of the shutter.
3. To confirm that the position has been saved correctly, the left LED will turn blue for 2 seconds.

Irrespective of the shutter position, once this has been stopped by pressing the STOP pushbutton, it will be possible to move it to the preset position.

NOTE: the correct operation of the PRESET function with shutters with adjustment of the blades is only guaranteed when a pulse motor is used.

LED adjustment



1. Press the configuration pushbutton for at least 5 seconds.All the LEDs will turn blue after 3 second, and then white again after 5 seconds;
2. Press and hold down the pushbutton, LED operation will change every 2 seconds as shown in the drawing;
3. Once the desired status has been reached, release the pushbutton.

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Wiring diagrams

Wiring diagram for shutter connection