

2017

Shutter Actuator 1-fold flush mounted Manual



The manual refers to the following devices:

SATION-WD0201.0851

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Impressum

Version	Date	Instruction
V1.0	24th, Mar, 2017	First release
V1.1	24th, April, 2017	Change the silk screen
V1.2	18th, Sep, 2017	Added 4-fold universal interface function

Notice

- 1.Please read the relevant content of this manual carefully before use.
2. This product is only suitable for indoor environment and installation of dark installation.
3. Ensure that the product is installed in a relatively dry and ventilated environment.
4. Please confirm the range of input voltage to meet the requirements of the manual before the product.
5. If the shell has been damaged before use, please do not use this product to avoid any accidents.Ensure the safe shell of the product is in good condition.
6. Do not expose children to this product.
7. This power supply is only suitable for use on the bus of EIB/KNX system.
8. Other precautions:

The following symbol indicates that this product is not as ordinary household waste or scrap processing, in order to prevent possible uncontrolled waste to environment and human health damage, must go through recycling, to promote the recycling of limited resources. Therefore, after the product is scrapped, please contact the local relevant garbage collection and disposal department to ensure that this product can get into the proper waste disposal procedure.



1 Technical parameters

KNX bus power	DC 21V~31V
Supply current	< 5mA
Power Consumption	<150mW
Programming key	Key to assign physical address, programming
Programming indicator	Orange LED
Number of universal interface channels	4 fold
Switching channel number	3fold
Rated working voltage	230VAC(50/60Hz)
Rated working current	8A max
Life Time	>1*10 ⁷ times
KNX terminal	Use a cable that conforms to the KNX standard
Load terminal terminal	Torque 0.4Nm wire 12-22AWG
Input terminal terminal	Wire 20 to 26 awg
Dimensions (W x H x D)	50*52*21mm
Installation	86/80Flush mounted in socket
Working temperature	-5℃~+45℃
Long-term storage temperature	-25℃~+55℃
Transit temperature	-30℃~+70℃

2 Overview Functions

2.1 Overview Devices

Shutter actuator 1 fold flush mounted in socket, It can be placed directly in 86 boxes or 80 boxes, By connecting the terminals of the KNX bus to the system network, Without additional power supply, the ac motor load can be controlled. Ac motor needs both clockwise and anticlockwise, and the maximum load current of each output is 8 A, has 4 fold universal interface unit, Compatible with high level effective, low level effective, dry node input, OC door circuit and other forms.

2.2 Main function

The allocation of physical addresses and the setting of parameters are completed using the engineering design tool software ETS (version ETS4).

Shutter control function:

Each channel have the following functions:

- 1) Shutter control: control the clockwise or counterclockwise operation of the curtain motor;
- 2) Time control: Can delay the opening/closing action time;
- 3) Scene control;
- 4) Manual operation.
- 5)

Universal interface functions:

Combination function:

Dimming function: edge switch, length input dimming;

Shutter control: long input (movement/stop), short input (stop/move);

Switching function: edge control;

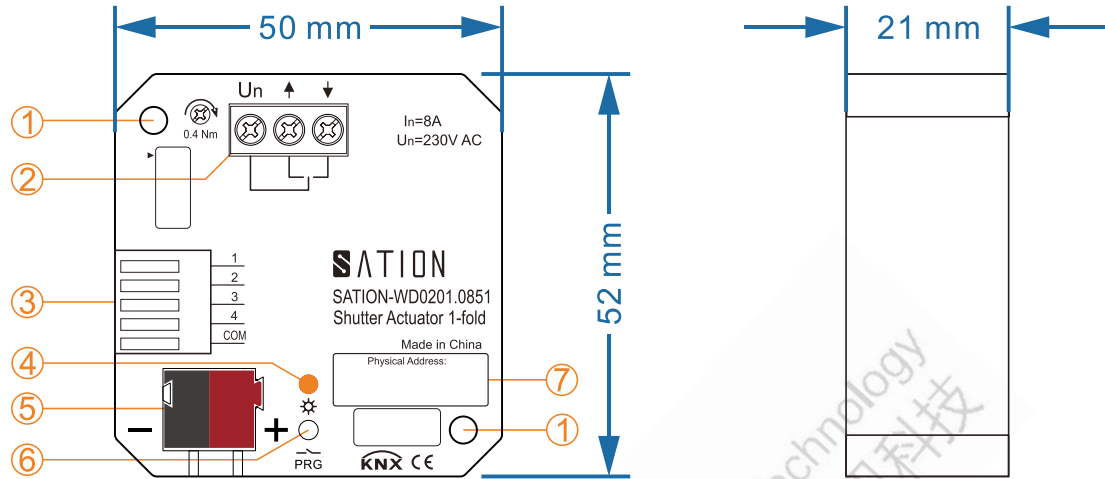
Independent functions:

1. Switching function: edge control, length input control, edge inversion, Status sent, fixed value sent;
2. Scene function: select the specific function of the configuration;
3. One key dimming: short input switch, long input dimming;
4. Shutter control: long input (movement/stop), short input (stop/move), automatic reverse;
5. counting function: count the number of edges (rising along or falling edges);
6. Output control LED function: can be bright or flashing;

The above functionality supports object blocking, object and/or logical operations, and electrical

behavior configuration on the device.

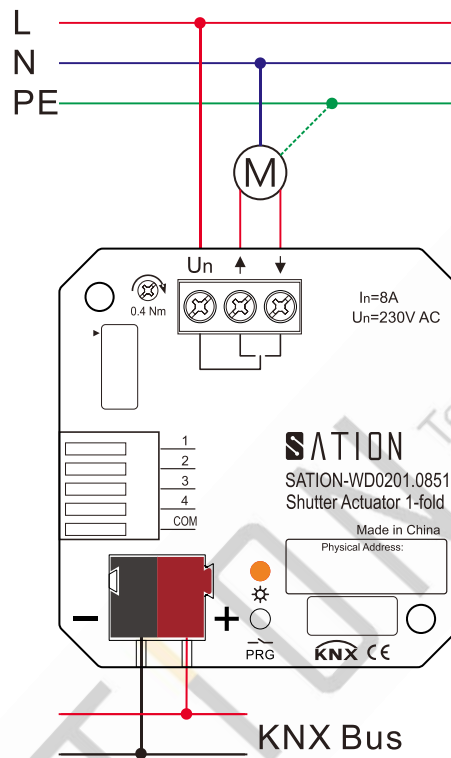
2.3 Dimensions (W x H x D)



- 1) M3 screw fixed mounting hole * 2, suitable for non-dark box type fixation
- 2) Output load terminal
- 3) Input load terminal
- 4) Programming indicator (orange)
- 5) KNX bus terminal
- 6) Programming key
- 7) Address label box

3 Application wiring diagram

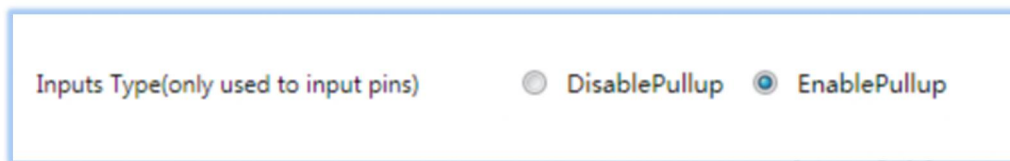
3.1 Wiring diagram of curtain motor



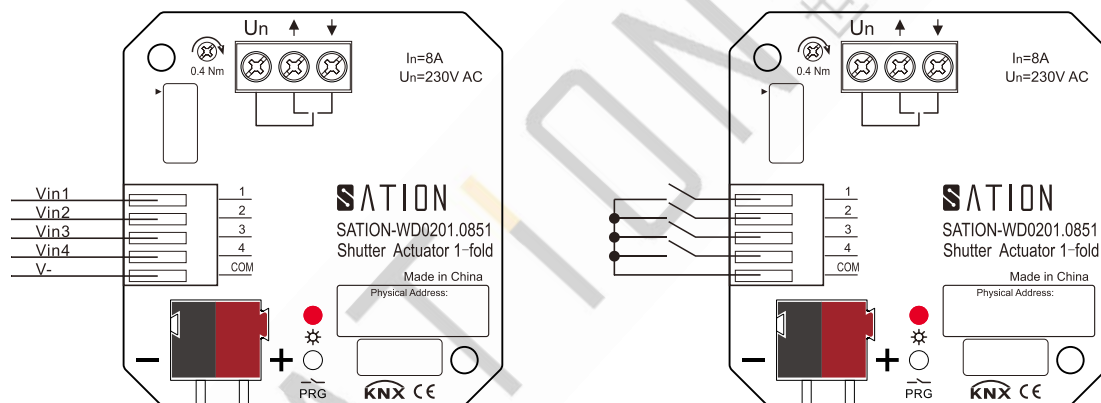
3.2 IO wiring diagram

3.2.1 Low level effective and dry node input

When low level of effective input is required, the ETS configuration file is required Inputs Type(only used to input pins) parameter EnablePullup,As shown in the figure below:



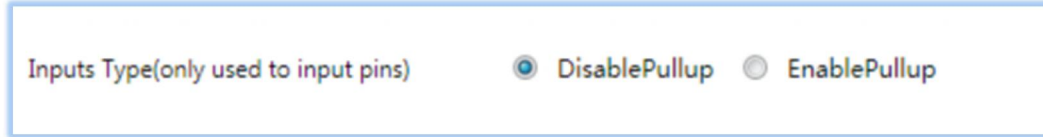
The input wiring in this case is as follows:



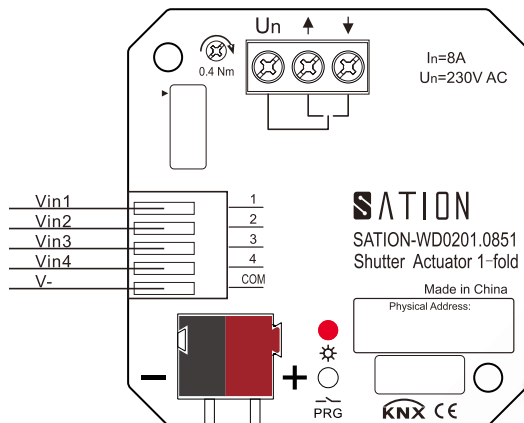
Note: low level includes the positive signal of the OC gate input and input level below 1VDC

3.2.2 High level effective input

When low High of effective input is required, the ETS configuration file is required Inputs Type(only used to input pins) parameter EnablePullup,As shown in the figure below:



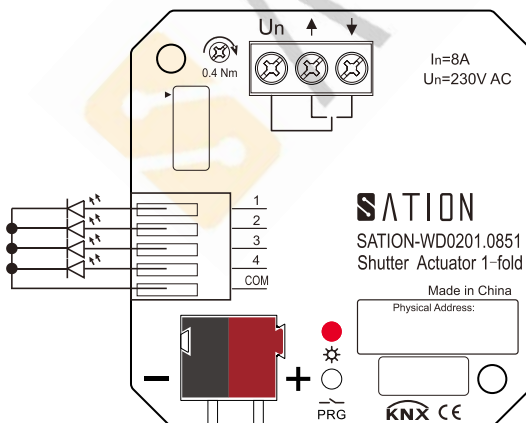
The input wiring in this case is as follows:



Note: High level is input 3.3V~24VDC

3.2.3 Output wiring diagram

Output control load (such as LED indicator, optical coupling, etc.), maximum output 1mA.



4 Contact Us

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