

### Copyright Clarify

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The user manual refer to the following device:

SATION-WD0201.0851

### Version

Version	Release Date	Remark
V1.0	24 <sup>th</sup> Mar 2017	1st Release
V1.1	24 <sup>th</sup> April 2017	Change the silk screen
V1.2	18 <sup>th</sup> Sep 2017	Add 4-fold universal interface function



### Notice

1. Please read this user manual carefully before using the product.
2. This product is used in indoor environment and installed in electrical control box.
3. Please install this product in a dry and ventilated place.
4. Before power on, please confirm the input voltage according to the manual; after power on, please confirm the normal output Voltage before connecting to the control bus.
5. Please make sure the secure shell is in good condition, if the shell is damaged, please stop using to avoid accident.
6. This product is NOT a toy, please make sure it is out of children touch.
7. Only be suitable for EIB/KNX system bus.
8. Others:

The below sign indicates this product can't be dealt as ordinary family rubbish, in order to avoid the possible environment and human health harm caused by the electrical waste, this product must follow recovery processing. Please contact the local recycling department after this product is scrapped, to make sure it can go as the right waste processing procedure.



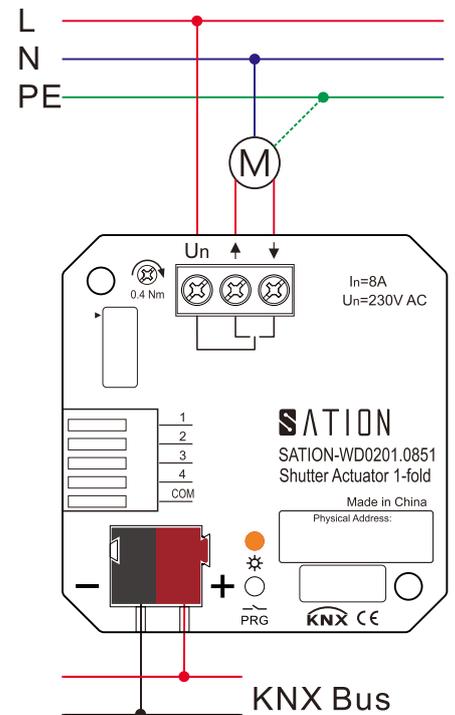
## 1. Technical Parameters

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	1fold
Rated working voltage	230VAC(50/60Hz)
Rated working current	8A max
Life Time	>1*10 <sup>7</sup> times
KNX terminal	Use a cable that conforms to the KNX standard
Load terminal	Torque 0.4Nm wire 12-22AWG
Input terminal	Wire 20 to 26 awg
Dimensions (W x H x D)	50*52*21mm
Installation	86/80Flush mounted in socket
Working temperature	-5°C~+45°C
Long-term storage temperature	-25°C~+55°C
Transit temperature	-30°C~+70°C

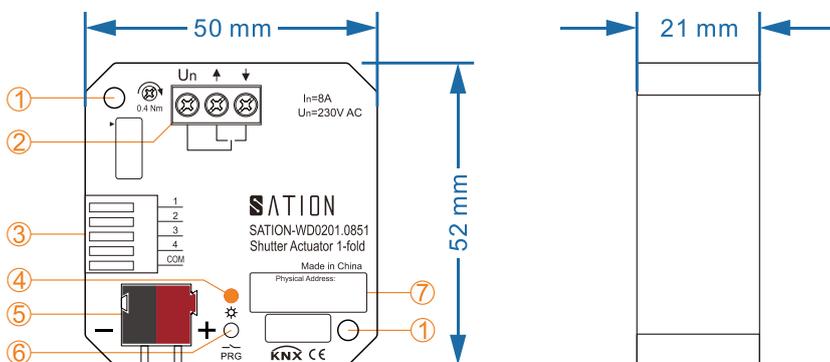
- 1, M3 screw fixed mounting hole \* 2, suitable for non-dark box type fixation
- 2, Output load terminal
- 3, Input load terminal
- 4, Programming indicator (orange)
- 5, KNX bus terminal
- 6, Programming key
- 7, Address label box

## 3. Circuit Wiring

### 3.1 Curtain Motor Wiring



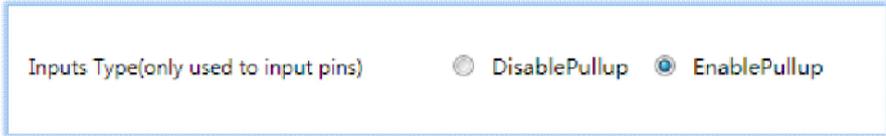
## 2. Product Dimensions



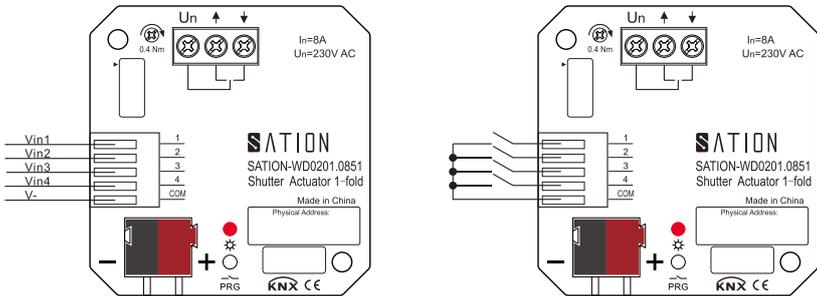
## 3.2 IO wiring

### 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:



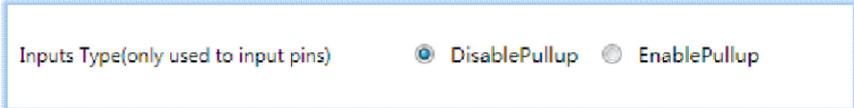
The input wiring in this case is as follows:



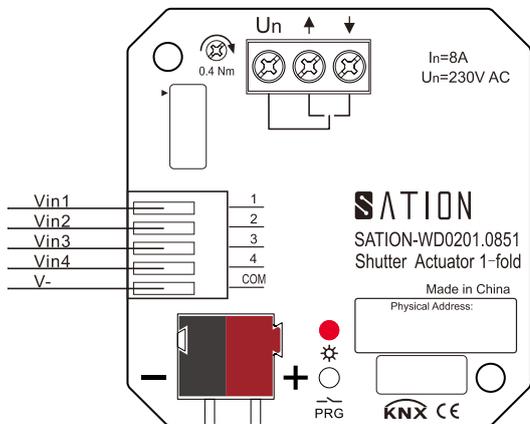
Note: low level includes the positive signal of the OC gate input and input level below 1VDC

### 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:



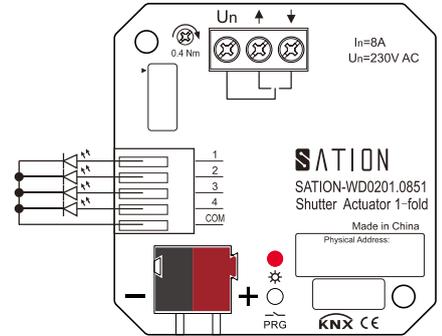
The input wiring in this case is as follows:



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.Function Overview

### 4.1 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 8A, has 4 fold universal interface unit,Compatible with high level effective, low level effective, dry node input, OC door circuit and other forms.

### 4.2 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 :

- 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.

### 4.3 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.