

### Copyright Clarify

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The user manual refer to the following device:

SATION-DM0101.0210

### Version

Version	Release Date	Remark
V1.0	24 <sup>th</sup> Mar 2017	1st Release
V1.1	11 <sup>th</sup> Oct 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.

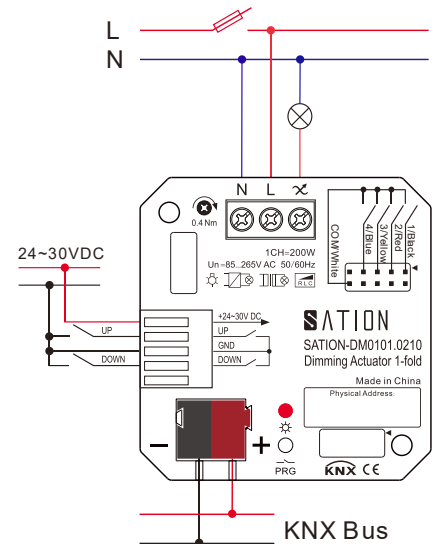


## 1. Technical Parameters

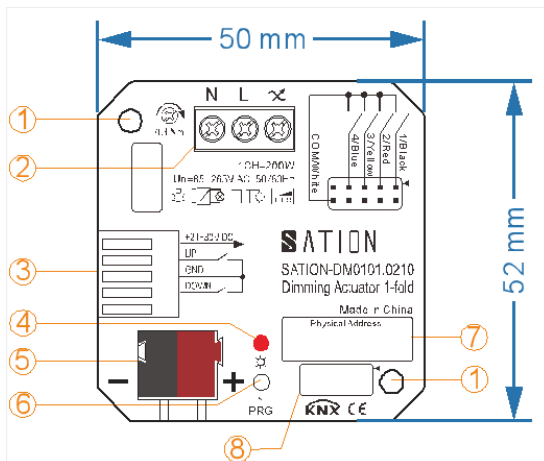
Power supply	DC 24V~30V
KNX bus power	DC 21V~31V
Supply current	< 5mA
Power Consumption	<150mW
Programming key	Key to assign physical address, programming
Programming indicator	Orange LED
Universal interface channels	4 fold
Output channel	1 fold
Rated working voltage	230VAC(50/60Hz)
Rated working current	0.9A max
Life Time	MTBF 100000 hours
KNX terminal	Cable that conforms to the KNX standard
Load terminal	Torque 0.4Nm wire 12-22AWG
Input terminal	Wire 20 to 26 awg
Security Level	II
Dimensions	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



## 2. Product Dimensions



Note: when using common interface function (dry contact only), open the universal interface window in the lower right corner and follow the wire in the upper right corner.

## 4.Function Overview

### 4.1 Overview Devices

Dimming actuator 1 fold flush mounted in socket, It can be placed directly in 86 boxes or 80 boxes, configurable 1 output. Connect to the system network via the KNX bus terminal, and it needs to be powered by a 24-30vdc /50MA auxiliary power supply. The dimming actuator is used to control the ac load equipment and the maximum load current of the output is 0.9 A.

### 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).

This dimmer actuator is a single-path dimmer which can be switched on or off manually. All channels have short circuit protection, hardware overcurrent protection and automatic stop function of overheating alarm.

Each channel have the following functions:

- 1) Dimming function: dimming, relative dimming, absolute dimming
- 2) Time function: switch-on delay, switch-off delay, on-off
- 3) Dimming speed: set the dimming time from 0% to 100%
- 4) Start behavior: set illumination value, switch on and switch off speed
- 5) Temperature detection: check whether temperature exceed limitation
- 6) Area limitation: set dimming area
- 7) Scene function: up to 8 scene set

### 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.