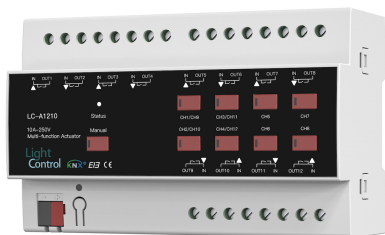


# Light Control

## KNX Multi Function Actuator

Product code: LC-A1210



|                            |                                                                 |
|----------------------------|-----------------------------------------------------------------|
| Bus voltage                | 21-30 VDC                                                       |
| Quiescent Current          | ≤ 12mA                                                          |
| Recharging current         | ≤ 20mA                                                          |
| Static power               | ≤360mW                                                          |
| Charging power consumption | ≤ 600mW                                                         |
| Main output                | 12 loops, each loop 250VAC (50/60 Hz), Max 10A (resistive load) |
| Shell material             | PA66                                                            |
| Installation               | 35MM DIN Rail                                                   |
| Working temperature        | -5°C...+45°C                                                    |
| Stock temperature          | -25°C...+55°C                                                   |
| Transport temperature      | -25°C...+70°C                                                   |
| Relative humidity          | max 90%                                                         |
| Color                      | Green                                                           |
| Dimension                  |                                                                 |
| 12-Fold                    | 145mm x 90mm x 64mm (W x H x D)                                 |
| Dry contact port           | 4                                                               |
| Weight                     |                                                                 |
| 8-Fold                     | 0.5KGS                                                          |

### DESCRIPTION

10A KNX Combo is a modular installation device, which is a multi-channel output module and integrates a variety of output functions. Connect to the EIB / KNX system through the EIB bus terminal block, and use the engineering design tool software ETS software (version ETS4.0 or above) to assign physical addresses and set parameters.

The maximum load current output by the combo actuator is 10A. One relay in the device represents one output, a total of 24 outputs. Some functions may require multiple outputs. For example, one curtain AC output requires two relay outputs, one relay is used to control the forward rotation, one is used to control the reverse rotation, and the ordinary switch output needs to occupy one relay output. Therefore, in the process of engineering application, select products according to actual needs.

### MAIN FUNCTIONAL CHARACTERISTICS

- All functions are available to all output, flexible. For examples, in ETS you could configure the curtain function in advance, then select which output you want to choose. You could choose output 1-2, or even 10-12. They are flexible, and it is able to use all relays more efficiently and avoid being idle.

| Switch Output                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Curtain Output                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (1) Independently control 24 loop lamps/loads;<br>(2) With manual switch control;<br>(3) With relay magnetic holding function;<br>(4) With delay on/off function;<br>(5) It has the function of timing off and cycle switch;<br>(6) With on-site save and restore functions;<br>(7) It has the function of status value query and reply;<br>(8) It has scene combination control and scene learning functions;<br>(10) With interlocking group function and channel lock function;<br>(12) It has the function of selecting the relay switch state after bus power failure and voltage recovery;<br>(13) It has an I/O dry contact input interface, which can input control commands such as switches, curtains, dimming, and scenes, and can directly link fire emergency lighting;<br>(14) 2 channel with logic; | (1) With 12 independent outputs;<br>(2) With manual switch control;<br>(3) Scene combination control function can be set;<br>(4) With on-site save and restore functions;<br>(5) Status value query and reply function;<br>(6) The selection function of the relay switch state after the bus voltage is restored;<br>(7) It is possible to set the time interval to cycle open or close;<br>(8) It has an I/O dry contact input interface, which can input control commands such as switches, curtains, dimming, and scenes, and can directly link fire emergency lighting;<br>(9) Scope of use: opening and closing curtains, projection screens, venetian blinds, rolling shutters, lifters, etc.; |

### Mounting And Safety Instructions

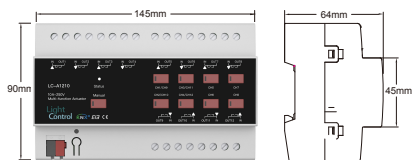
- This equipment may only be installed and operated by a qualified electrician or authorized personnel.
- For the planning and construction of electrical installations, the appropriate codes, guidelines and regulations in force in the respective country must be observed.
- Do not connect mains voltage (230 V AC) or any other external voltage to any point on the KNX bus.
- Connecting external voltages may put the KNX system at risk. Please don't forget to consider this issue.
- Make sure there is adequate insulation between the 230 V AC voltage cable and the KNX bus.
- Do not expose this device to direct sunlight, rain, or high humidity.
- Do not use sprays, solvents, or abrasives that may damage the equipment. For installation only in dry locations and on 35 mm DIN rails.
- Equipment must be easy to operate and visually inspect.

### Dimension And Wiring

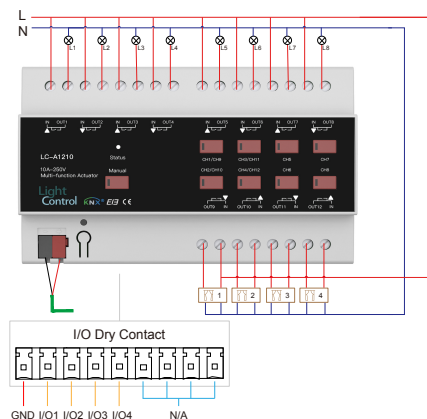
Dimension

Unit: mm

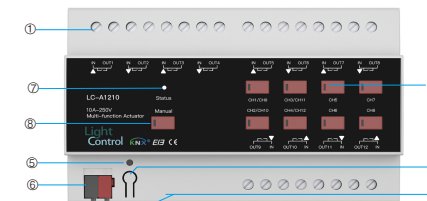
#### 12 CH Multi Function Actuator



#### Wiring diagram



### Parameter setting



- ① Description: Relay output terminals: one in and one out, the aperture can be connected to  $\Phi 4$  wires;
- ② Description: Each circuit control button, manual operation, short press the button, the circuit relay will do the reverse operation (when the relay is closed, the indicator light on the button is on, and the indicator light is off when it is disconnected);
- ③ Description: Dry contact input terminals;
- ④ Description: programming button, short press the button to enter programming mode;
- ⑤ Description: Programming indicator light, when the indicator light is red, the device is in the programming state, when the device is programmed or working normally, the indicator light is off;
- ⑥ Description: KNX terminal block, KNX bus connection, the red line is connected to "+", and the black line is connected to "-";
- ⑦ Note: Status is the status indicator of the device power supply. When the indicator is green, the bus power supply status of the device is normal; Explanation: Manual is the circuit switching button, short press the button, the indicator light on the button can be switched to red and orange, when the indicator light on the button is red, it can control the CH1~CH8 circuit; when the button on the button When the indicator light is switched to orange, it can control the CH9-CH12 circuit
- ⑧

### CONTACT

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