

8 Fold Multi-function Actuator (KNX Secure) Datasheet

KNX/EIB Home and Building Intelligent Control System

Functions

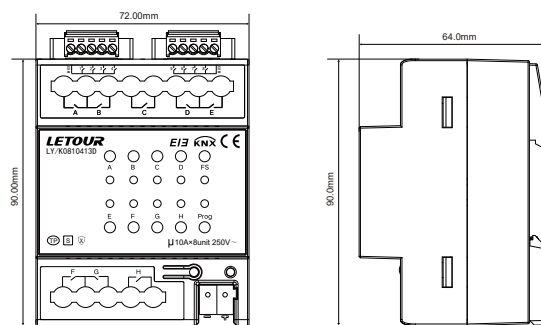
- Supports KNX Security protocol;
- Manual control, supports single-channel output control of the function;
- Engineering test control;
- Weather warning, supports linkage control of weather sensors and curtain AC/DC output functions
- Dry contact input scanning, used to connect switch panels or dry contact output sensors, supports up to 8 connections;
- Switch output, supports up to 8 outputs;
- Curtain AC/DC output, supports AC and dry contact curtain motor connections, up to 4 connections. DC type can connect up to 2 connections;
- Fan multi-level control, supports 1,2,3 level wind speed control, and can connect up to 2 fans;
- Valve 2/4-pipe control, supports 2-pipe control (up to 4-way valves) and 4-pipe control (up to 2-way valves)

The device does not require additional power supply voltage for operation, and is directly powered by the EIB/KNX bus.

Technical Parameters

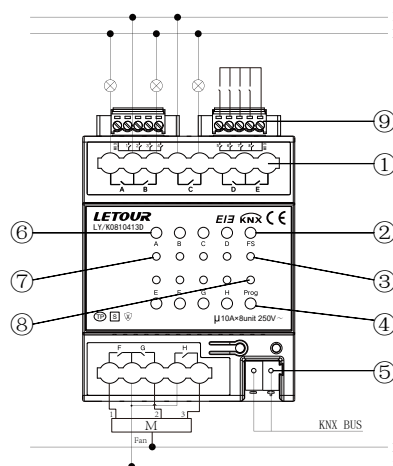
Power	Operating Voltage, KNX	24~30V DC, provided by the bus
	Max. Current	20 mA (30V DC)
	Quiescent Current	6 mA
Output	Un Rated Voltage	230V AC(50~60Hz)
	Switching Current	10A/230V (Resistive load) 150W/230V (Capacitive load)
	NO. of Channel	8
Dry Contact Input	Scan Voltage	3.3V
	Cable Length	<300m (0.4mmØ)
	NO. of Channel	8
Connection	KNX	Bus connection terminal (red/black, 0.8mmØ)
		Screw terminal
	Load Output	Single core 0.2-2.5mm, torque 0.4N-m Multi-core 0.2-4mm, torque 0.8N-m
Operation & Indication	Programming Button & LED	Assign physical address
	Manual Operation & Output LED	Switching output and indicating output status
	Manual/ Auto Switch Button & LED	Manual/Auto operation mode switching & indication mode status
	Manual Centralized Control Buttons & LED	Central switching output and output status indication of all channels
Temperature Range	Operation	-5°C...+45°C
	Storage	-25°C...+55°C
	Transportation	-25°C...+70°C
Environment	Humidity	<93%, except condensation
Design	Modular installation	35mm DIN rail, modular installation
CE		Meets the EMC and low voltage standards, EN 50 090-2-2
Certification		EIB/KNX Certification

Dimension



Model	Dimension	Weight
LY/K0810413D	72 x 90 x 64mm	0.23kg

Wiring Diagram



Instruction

- ① Output/relay terminal
- ② Manual and Auto mode switching button
- ③ Manual and Auto mode switching LED
- ④ Programming button
- ⑤ KNX terminals
- ⑥ Relay control button
- ⑦ Relay status indicator
- ⑧ Programming LED indicator; a green LED indicates that the program has entered the physical address programming state.
- ⑨ Dry contact input terminal



Warning:
An appropriate MCB or fuse **shall** be connected to the input terminal of each relay or dimming circuit for protection.

Installation Instructions

This device is designed for quick and easy installation within a distribution box or a small box, and it is modular installation device in accordance with the EN60715 series that may be placed on a 35mm DIN rail. The installation must be completed in such a way that the equipment can be properly operated, tested, examined, maintained, and repaired.

Notes

1. **The product comes with a label on the external packaging (which includes the factory default setting key). Users must keep this label securely, as it will be required when using the KNX security function. If the label is lost after the device's KNX security function has been activated and the database has been downloaded, the device cannot be reset or repurposed for another project.**
2. Installation and commissioning of equipment may only be performed by trained and skilled electricians. Relevant standards, guidelines, rules, and instructions are meticulously followed during the planning and execution of electrical installation.

Device need to be protected from moisture, dirt, and damage during transportation, storage, and use
Do not operate the device outside specified specifications (e.g., temperature range)

Device can only be operated in a closed environment (e.g., junction box). When the unit is dirty, only use a dry cloth to clean it. If this is not enough to clean it, use a damp cloth with a little soapy solution and wipe it gently. DO NOT use alkalis or caustic solvents.