

Applicable Model:
LY/TD0128414J

KNX International Standard Home & Building Control System

Product Function

● KNX-Single Channel DALI Gateway with built-in DALI power supply with a single DALI bus supporting up to 64 loops. It can detect equipment faults in real time, including ballast faults and luminaire faults.

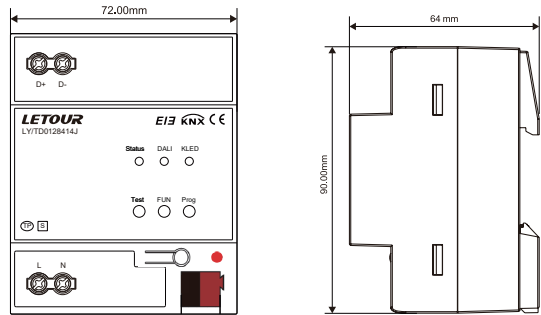
The main functions include:

- Real-time detection of equipment faults, including ballast fault, luminaire fault, etc;
- Control objectives include: broadcast control, loop control, group control, scene control, stair light control, sequence control, and emergency light control.
- Each circuit and group offers on/off control, relative/absolute value dimming, and status response.
- The DALI gateway, in conjunction with the 'KNX Assistant Software', enables for address administration and assignment of DALI ballasts.
- The 'KNX Assistant Software' allows you to configure and manage group scenes.
- Color temperature control can be utilized to support broadcast, group, loop, or scene control with DT8 type color temperature controlled ballasts.
- Support online upgrade.

Technical Parameter

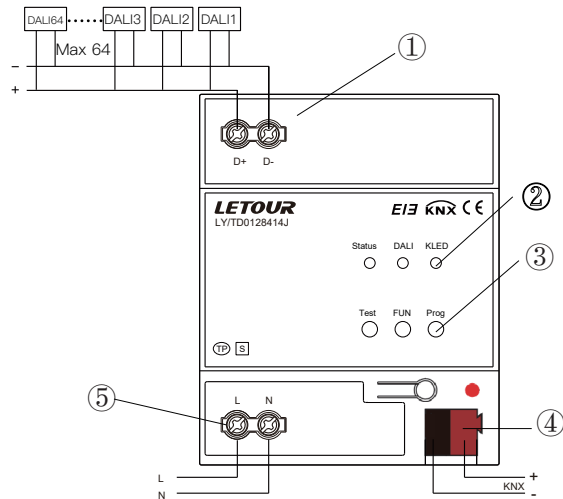
power supply	bus voltage	21-30V DC from Bus
	bus current	5mA/30V DC
	bus power consumption	<360mW
auxiliary power	input voltage	100~240V AC, 50/60Hz
output	one channel	Support for 64 DALI devices
conjunction	KNX input、output	KNX Bus Terminal (red/black) (Ø 0.8 mm) Screw Terminal Block
operation & instruction	programming button & LED in red	Used for assigning physical address
	LED (DALI)	Green light is always on, indicating that the module is working normally
		Red light blinks to indicate that the DALI bus is communicating.
	LED (Status)	Green light indication: test button operation
		Red light indication: FUN button operation
	short touch FUN button	Can broadcast control on or off, the status indicator light is red. Broadcast on, red indicator light on; broadcast off, red indicator light off.
	long touch FUN button	To clear all addresses, press and hold for 30 seconds. The red status lamp will blink on and off three times, with a one-second interval.
operation & instruction	long touch TEST button	When pressed for 30 seconds, the address is reassigned, and the green light blinks to indicate this.
	short touch TEST button	The ballasts are tested one at a time, one second on and one second off, with the green light indicating the ballast's status. In the case of ballasts with DT8 type colour temperature control, the lamps are illuminated, then adjusted to the coolest colour temperature value, then to the warmest colour temperature value, and finally extinguished, with each stage lasting one second.
	touch the FUN & TEST button at the same time	Press and hold for 15 seconds to recover the faulty ballast that was recorded. During the recovery process, the red and green status lights flash alternately with a one-second delay between them. If there is no ballast to be recovered, the red and green status lamps illuminate simultaneously for 3 seconds before going out.
temperature range	operation	-5 °C ... + 45
	storage	-25 °C ... + 55
	transportation	-25 °C ... + 70
environmental condition	humidity	<93%, except for condensation

Dimension



Mode	Size	Weight
LY/TD0128414J	72x90x64mm	0.25kg

Wiring Diagram



Instruction

- ① DALI Output Terminal
- ② Function Indicator Light
- ③ Function Button
- ④ KNX Bus Connection Terminal
- ⑤ 230V AC Auxiliary Power Input

Installation Instruction

The device is intended for quick and easy installation in the distribution box as a standard modular device according to the EN 60715 series, and it can be placed on a 35 mm DIN rail. The installation must be completed in such a way that the device is properly operated, tested, examined, maintained, and repaired.

Notification

- Installation and commissioning of equipment should only be performed by trained and skilled electricians. Relevant standards, guidelines, norms, and instructions are meticulously followed during the planning and execution of electrical systems.
- During shipping, storage, and use, the item must be kept free of moisture, dirt, and other harm.
- Do not use the gadget outside of the defined parameters (such as temperature range).
- The devices can only be operated in closed environments (e.g. distribution boxes).

When the unit is dirty, it should only be cleaned with a dry cloth. If this is not sufficient to clean it, use a damp cloth with a little soap solution and wipe gently. Never use alkalis or caustic solvents.