Single-channel KNX / DALI Gateway

Datasheet

KE.G1001

Function

(1) Supports 64 DALI devices, and perform switching, dimming and color adjustment operations on each DALI device separately;

(2) Supports access to multiple device types, such as DT6 (LED), DT8 (supports color temperature, RGB, RGBW and XY), DT252 and DT253 (supports reading parameters such as voltage, current, power, temperature and electricity);

(3) Group control: Each DALI output can be configured with 16 different groups. The allocation of devices in the group is achieved by the DALI debugging tool, and each group can be switched on, dimmed and color adjusted;

(4) Broadcast control: All DALI devices in each DALI output can be switched on, dimmed and color adjusted;

(5) Group scene control: Each group has 16 KNX scenes or DALI scenes available for call, of which KNX group scenes can be used for switching, dimming, and color adjustment, and the brightness value of DALI group scenes is configured by the DALI debugging tool;

(6) Broadcast scene control: Each DALI output has 16 KNX scenes and 16 DALI scenes available for calling, of which KNX broadcast scenes can be used for switching, dimming, and color adjustment, and the brightness value of DALI broadcast scenes is configured by the DALI debugging tool;

(7) Each DALI output has 48 operation templates. The configured operation templates can be applied to single device control, group control,and broadcast control;

(8) Supports status query, such as switch status, brightness status, color status, device status, voltage status, current status, power status, etc.

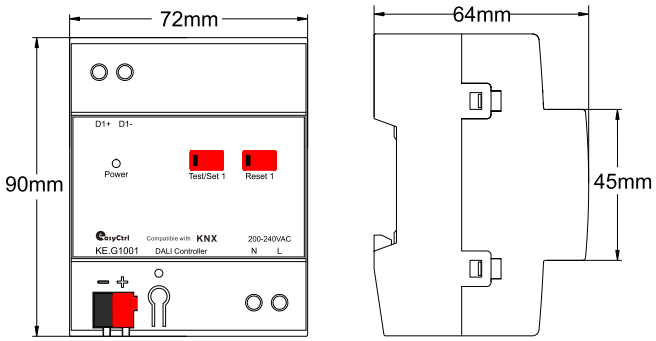
(9) Error detection function for DALI device ballasts and lamps;

(10) DALI bus can be powered off by pressing the Reset button.

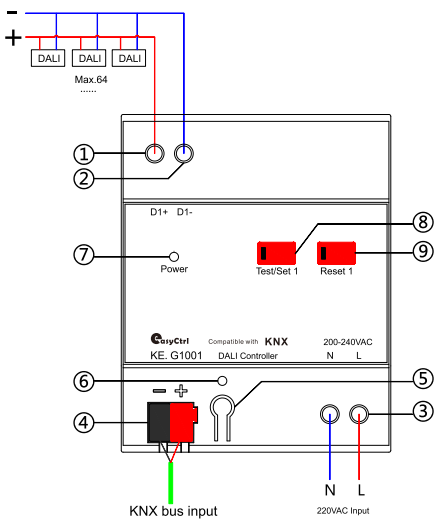
Parameters

Bus voltage:	21-30 VDC, KNX bus power
Bus quiescent current:	< 12mA
Bus standby power consumption:	< 360mW
Auxiliary voltage:	200-240VAC, 50/60Hz
Auxiliary input current:	< 128mA, 220VAC
Auxiliary input power consumption:	< 16.5W, 220VAC
DALI output:	Supports 64 DALI devices
Per channel current:	< 250mA
Load voltage:	16V DC
Distance between the gateway and DALI devices	0.5mm^2—100 M
Cable cross-section-distance:	1.5mm^2—300 M
Dimensions:	72mm x 90mm x 64mm
Installation:	35mm DIN
Shell material:	PA66
Weight(approx.):	0.3kg
Operating temperature:	-5°C...+45°C
Storage temperature:	-25°C...+55°C
Relative humidity:	Max 90%

Dimension



Wiring



① DALI output positive terminal, accepts 0.2-4mm^{2}wire.

② DALI output negative terminal, accepts 0.2-4mm^{2}wire.

③ 220VAC auxiliary power input, accepts 0.2-4mm^{2}wire.

④ KNX bus terminal, connects the red wire to "+" and the black wire to "-".

⑤ Programming button: Short press this button to enter programming mode.

⑥ Programming indicator: The indicator flashes red and blue when the device is programming. It flashes blue when programming is complete or the device is operating normally.

⑦ Power indicator: When on, the device is connected to power; when off, it is disconnected.

⑧ Test/Set button: This function can be configured by ETS.

● Short press: Turns all devices on/off on the DALI bus in the channel, convenient for testing unconnected DALI devices.

● Long press: Press and hold the Test/Set button for 5 seconds. When the LED of the button turns blue and flashes rapidly, the DALI gateway begins to initialize the devices on the bus and reassign addresses.

⑨ The Reset button is a short press for 1 second to initiate the reset process. The Test/Set button's LED turns blue, indicating that the DALI bus has been powered off.

Installation

Installed in a distribution box on a standard 35mm DIN rail. To facilitate quick installation within the distribution box, ensure proper operation, testing, inspection, and maintenance of the device.

Safe use and maintenance

(1) Read all instructions carefully before use.

(2) Create a well-ventilated environment.

(3) During use, pay attention to moisture, shock and dust prevention.

(4) Do not expose to rain, other liquids or corrosive gases.

(5) If the machine is damp or invaded by liquid, it should be dried in time.

(6) If the machine fails, please contact professional maintenance personnel or our company.