KNX/DALI Gateway

Datasheet
MG1002

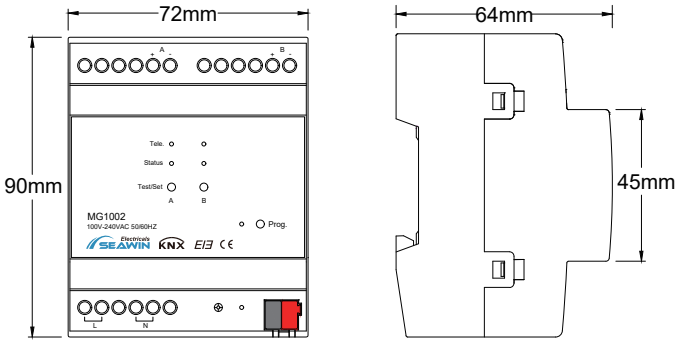
Function

(1) Each output gateway supports 64 DALI devices, and each device can be switched on and off, dimmed, and set to a brightness value;
(2) **Scene control**: Each output has 16 scenes for call or storage, scene brightness value is configured by debugging software DCA & PC software;
(3) **Group control**: Each channel can be configured with 16 different groups, and the allocation of devices in the group is implemented by ETS or the debugging software. Each group can be switched on and off, dimming, and set to a brightness value. At the same time, group control supports color temperature adjustment;
(4) **Group scene**: Each group can be assigned 8 KNX scenes or 16 DALI scenes. The brightness of the KNX scene is configured by ETS, and DALI scene brightnesas is configured by the debugging software tool;
(5) Each output channel can be configured with 8 operation templates. The switch and dimming control behavior of each DALI device and DALI group can refer to the configuration of the template, or the ECG's own configuration can be used;
(6) Status query and reply, such as switch, brightness, running time, etc.;
(7) DALI Error detection of device ballasts and lamps;
(8) Monitor DALI bus voltage, DALI bus current and DALI bus short circuit;
(9) Channel broadcast control: switching, dimming and setting brightness values for all DALI devices in the channel;

Parameters

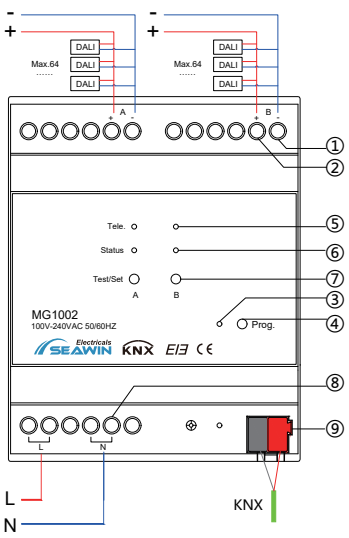
Bus Voltage	21-30V DC, from bus
Bus static current	10.1mA/30V DC
Bus standby power consumption	< 360mW
Auxiliary voltage	100~230V AC，50/60Hz
Auxiliary input current:	<55mA, 220V AC
Auxiliary input power consumption	<12W, 220V AC
DALI output:	2 Ch，Each Ch 64 DALI devices
Single channel current	≤250mA
Load voltage	18.5V DC
Distance between gateway & DALI device	0.5mm²—100 M
Cable cross-section-distance	1.5 mm²—300 M
Weight	About 0.25KG
Installation	35mm DIN
Dimension	72mm×90mm×64mm
Waterproof	IP20, EN60529
Working temperature	-5°C...+45°C
Storage temperature	-25°C...+55°C
Relative humidity:	<93%

Dimension



*Unit: mm

Wiring



①DALI output negative terminal;
②DALI output positive terminal
③The red light indicates the programming physical address, and the green light flashes to indicate that the device application layer is running normally;
④Programming button, short press this button to enter the programming mode;
⑤LED (Tele.)
1) Flashing quickly, indicating that the DALI bus is being initialized
2) Flashing during communication, indicating that the DALI bus has received message data
3) Always on, indicating that the DALI bus initialization has been completed;
⑥LED (Status)
1) When the LED is on, it indicates that the entire channel switch is turned on. When it is off, it indicates that the entire channel is turned off. It is only applicable to the control instructions of channel buttons A and B and the channel broadcast switch control instructions
2) When the LED flashes, it indicates that the DALI gateway is initializing the configuration;
⑦Test/Set button
1) Short press <5s: All devices on the DALI bus in the switch channel are convenient for testing unconnected DALI devices
2) Long press >5s: Reinitialize all DALI devices or DALI devices without addresses on the DALI bus, or no action. The specific operation is determined by the parameter "Test/Set button function via long press (>5s)" setting;
⑧230V AC auxiliary power input

Safe use and maintenance

(1) Read all instructions carefully before use
(2) To establish a good ventilation environment
(3) During use, pay attention to moisture, shock, & dust prevention.
(4) Prohibited to be exposed to rain, other liquids or corrosive gases
(5) Invaded by liquids, it should be dried in a timely manner.
(6) Pls contact professional maintenance personnel or our company, if product failed