DNB-DALI-Zigbee

Zigbee to DALI bridge

Specification Sheet

Gateways > Integration Devices



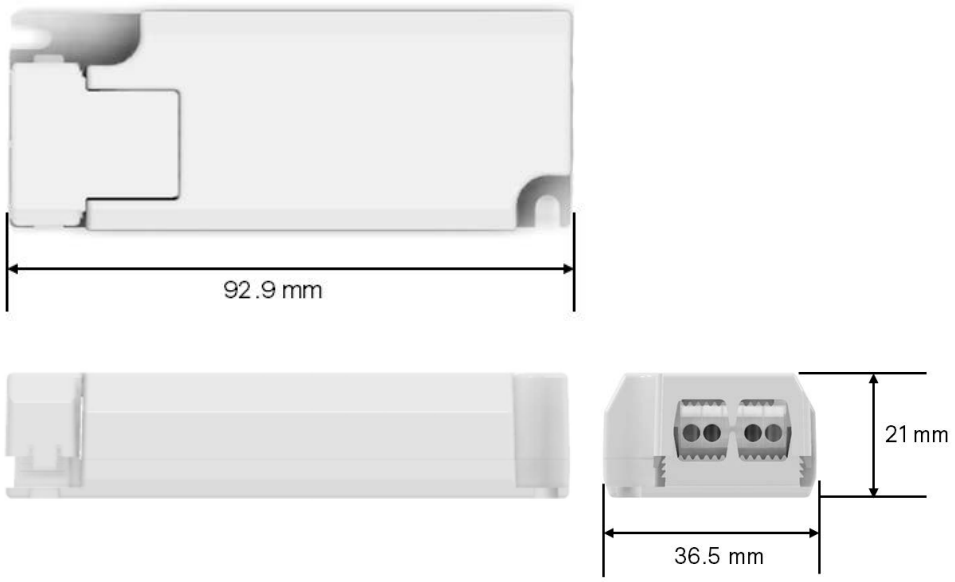
Wirelessly connect DALI drivers to the Dynalite system

The Dynalite DNB-DALI-Zigbee enables seamless integration of DALI luminaires without the need for data cabling back to the DyNet bus. This compact, lightweight device connects wirelessly to the Dynalite system via the PDZG-E Zigbee gateway.

Key Features

- **DALI-2 certified** - Control up to 4 compatible DALI-2 luminaires.
- **Zigbee 3.0 certified** - Connects seamlessly to the Dynalite system via 2.4GHz Zigbee mesh networking.
- **Direct DALI control** - No need for additional bridges or control hardware.
- **Mains powered** - Easy installation and wiring.

Dimensions



Specifications

Electrical

Supply Voltage	220-240 VAC 50/60Hz
Supply Current	5 mA typical
IEC Overvoltage Category	II ???

Control

Supported Protocols	Zigbee 3.0 Bluetooth DALI-2
Control Channel Outputs	1 x DALI-2

Wireless Connectivity

Protocols	BLE Zigbee
Frequency	2.4GHz (IEEE 802.15.4)
Antenna Type	Internal
Range	**Zigbee:** 15 m (line of sight) **Bluetooth:** 15 m (line of sight)
Notes	Zigbee range between this device and wireless luminaires or other devices may vary, and should be tested before final design-in and installation.

Physical

Dimensions	92.9 x 36.5 x 21 mm (3.66 x 1.44 x 0.83 in)
Net Weight	37 g (0.08 lb)
Construction	Plastic enclosure
Colour	White
DALI Terminals	2 x spring clamp
Supply Terminals	2 x spring clamp
Terminal Conductor Size	**Solid:** 0.75-1.5 mm² (#18-16 AWG) **Stranded:** 0.75-1 mm² (#18-17 AWG) only with ferrule

Environment

Operating Temperature	-30° to 65°C ambient (-22° to 149°F)
Storage/Transport Temperature	-30° to 85°C ambient (-22° to 185°F)
Relative Humidity	10-90% non-condensing
IEC Pollution Degree	II
Installation Note	For indoor installation only

Compliance

Certifications	CE, CB, RED, UKCA, ENEC, DALI-2
IP Rating	IP20

Control Channel Ratings

DALI	
Output Voltage	16 VDC
Guaranteed Current	10 mA
Maximum Current	250 mA
Maximum Drivers/Channel	4
Insulation	Basic

Note:
Shutdown mechanism after short circuit on DALI line.
Maximum DALI cable length: 2m
Inrush Ipk: 0.5 Apk (at 230 VAC)
Inrush Twidth: 200 µs (at 230 V)
Surge differential mode: 1.0 kV (Acc. IEC/EN 61000-4-5, 2 Ohm, 1.2/50 µs, 8/20 µs)
Surge common mode: 2.0 kV (Acc. IEC/EN 61000-4-5, 12 Ohm, 1.2/50 µs, 8/20 µs)

Ordering Codes

Product	12NC
DNB-DALI-Zigbee	TBA

Policies and Notices

Specific Data Notice

TBA

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