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DALI Adaptive Phase Angle Dimming Device

Suitable for LED lighting and traditional light sources



Range **DGOZ-DM-400W-01**

Overview

The Dignet DALI Adaptive Phase Angle Dimming Device is designed for dimming up to 400W of connected lighting via DALI commands issued on a connected DALI line.

The device includes a large area for terminating all 1.5mm or 2.5mm double insulated cables (240Vac Active supply cable, switched load cable and DALI Line cables).

The device is fully tested to and complies with DALI standards IEC 62386.

The device is not suitable for use with Ceiling Sweep Fans, Exhaust Fans or any motor loads.

Features

Phase dimming of lighting loads via received DALI commands

Capable of dimming lighting loads up to 400W

Line powered – draws only 2mA from a DALI Line

Two wire dimming device – No Neutral required, only 240Vac Active and Load conductors

Suitable for mounting in a ceiling void or on DIN rail via the included DIN rail mounting bracket

DALI compliant (IEC Standard 62386-205, DALI Device Type 4)

The phase dimmed output can be linked to a DALI Short Address

The phase dimmed output is able to be allocated to up to 16 DALI Group Addresses and/or up to 16 DALI Scenes

Short Address, Group Addresses and DALI Scenes are configured via Dignet RAPIX Integrator software.

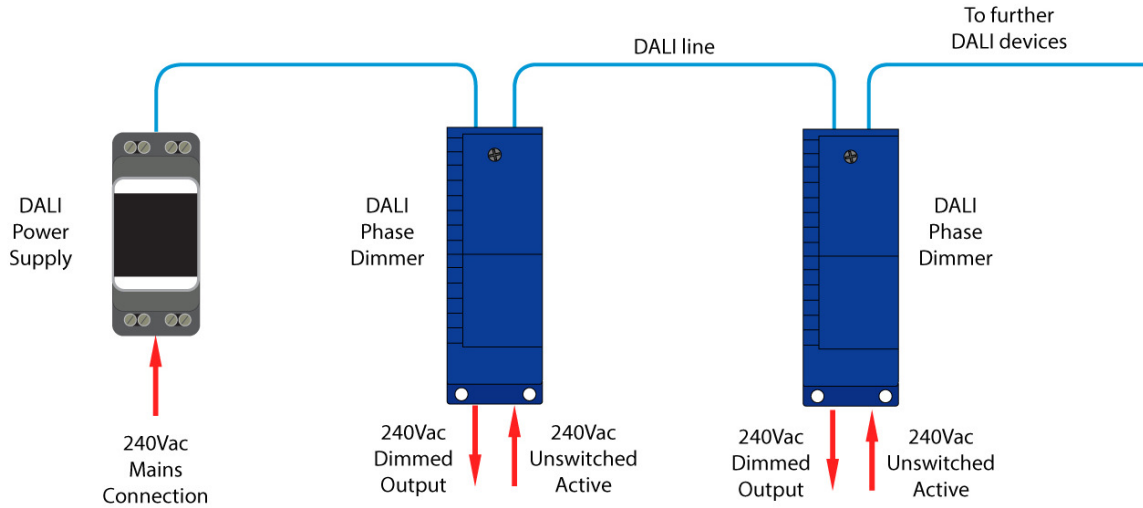
Typical Applications

- | | | |
|------------------------|----------------------|-------|
| Commercial buildings | Education facilities | Homes |
| Hotels | Museums | |
| Health care facilities | Art Galleries | |

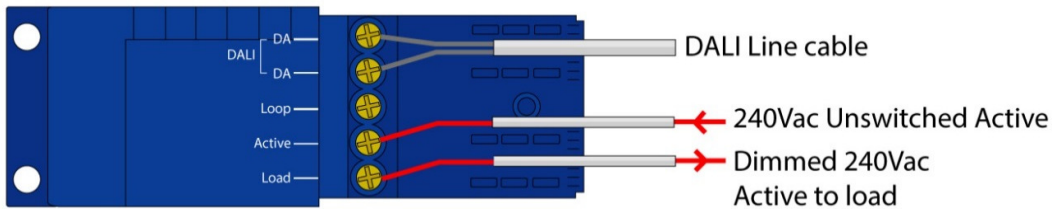


Connecting to a DALI Line

The DALI Adaptive Phase Angle Dimming Device must be connected to both 240Vac mains power and a DALI Line powered by a DALI Power Supply. The DALI Power supply must be a device which has been designed to and meets the DALI standards. The Diginet DALI Power Supply, Item Number **DGLMPS01** (available separately) is recommended.



Wiring



Note







- The dimmed load output is internally connected via the Active mains supply connection.
- The 'Loop' terminal is not connected internally and can therefore be used to loop unused conductors, such as a Neutral.



Specifications

Number of outputs	1
Nominal Mains Supply Voltage	220 – 240V ac
Mains Frequency Range(s)	47 – 53 Hz
Electrical Isolation	3.75kV (DALI to Mains)
Max. Number of Units on a single DALI line	64
Load Brightness Control Range	0% to 100% (typical for LED loads)
Minimum Load	1W
Current drawn for DALI Line	2mA
Load Rating	See 'Compatible Load Types' on page 8
Standby Power	< 100mW
Dimensions	See separate Diagram
Mains Terminals	2 x 2.5mm maximum per terminal or 3 x 1.5mm maximum per terminal
DALI Terminals	2 x 2.5mm maximum per terminal or 3 x 1.5mm maximum per terminal
Weight	100g
Operating Temp. Range	0 – 50°C
Operating Humidity Range	10% - 95% RH non condensing
Mounting Arrangement	Surface mount via 6mm mounting holes , DIN rail mounting (with optional DIN rail mounting bracket)
Housing Material type	Flame Retardant Polycarbonate
IP Rating	IP20
Compliance Marks	ROHS, WEEE, CE, RCM, DALI
DALI Device Type	Type 4

Compatible Load Types

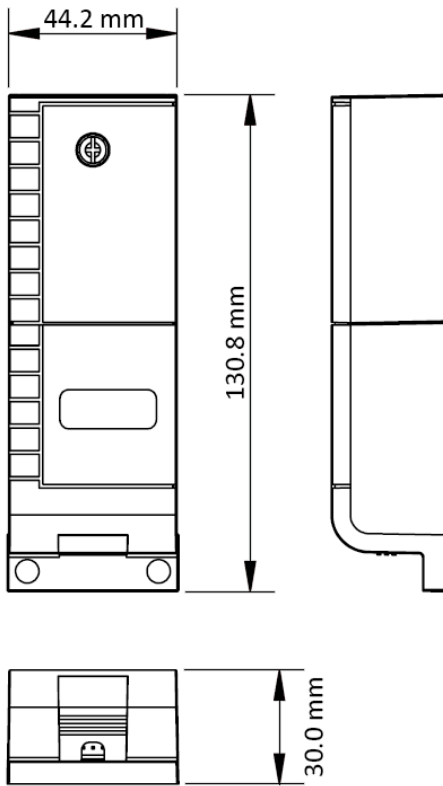
Load Symbol	Load Type	Maximum Load	Notes
	Dimmable LED Lamps / Drivers	400W	The LED driver must be dimmable. Maximum permitted number of drivers is 400W divided by driver nameplate power rating. Due to variety of LED lamp designs, maximum number of LED lamps is further dependent on power-factor result when connected to dimmer.
	Electronic Transformers	400W	
	Standard Iron-Core Transformers	250W	Due to variety of transformer designs, maximum LV lighting load is further dependent on transformer efficiency.
	Toroidal Iron-Core Transformers	300W	
	Incandescent	350W	
	Dimmable CFLs	400W	Due to variety of CFL designs, maximum number of CFL lamps is dependent on particular CFL make/model.

Incompatible Load Types

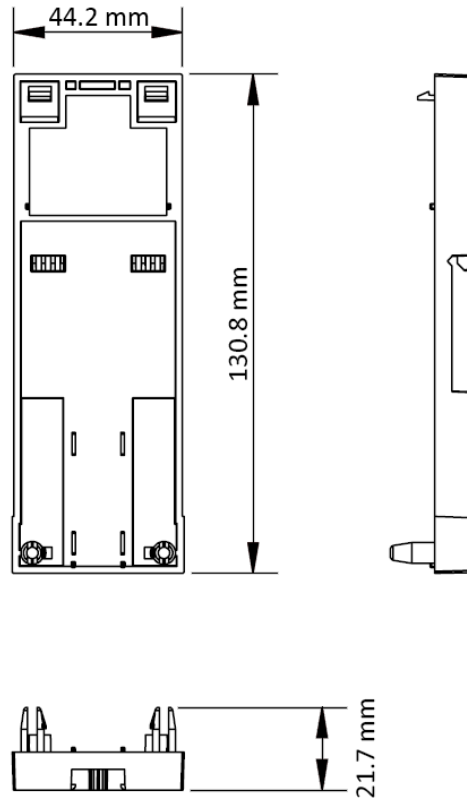
- Ceiling Sweep Fans
- Exhaust fans and any other motor loads



Dimensions



Dimensions – DALI Adaptive Phase Angle Dimming Device



Dimensions – Optional Mounting Bracket

Approvals & Compliance



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