

Product Data Sheet

digidim

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DIGIDIM 500W Dimmer

The DIGIDIM 500 Watt Thyristor Dimmer (leading edge) is a fully DALI compatible Lamp Interface Unit for use in a DIGIDIM lighting control system. The dimmer is a DIN-rail mounted unit that can control a maximum load of 500W. It can be connected to mains voltage lamps directly, or to low voltage lamps via a wire-wound transformer. The dimmer is provided with a status LED and a physical selection switch. The LED provides status and fault indications, the physical selection switch is used to identify the device during system configuration.

Note: This unit does not contain a DALI power supply and therefore one must be incorporated elsewhere in the system.

Key Features

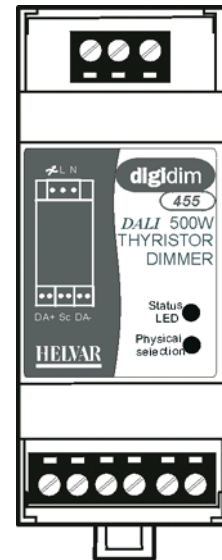
- Out of box operation. No programming required when using DIGIDIM slider, rotary or push button panels.
- Input voltage and frequency fluctuation compensation ensures stable output levels with fluctuating incoming mains levels.
- Over current and over temperature protection.
- DIN-rail mounted and only 35 mm wide.

Additional Functions

- The following functions may be programmed using the Digidim Toolbox software.
- Max/Min levels, Fade times, Scenes and Groups.
- Dimmer status report.
- System failure level/ignore.
- Power on level.
- Power on to last level.
- These functions are programmable using IR remote

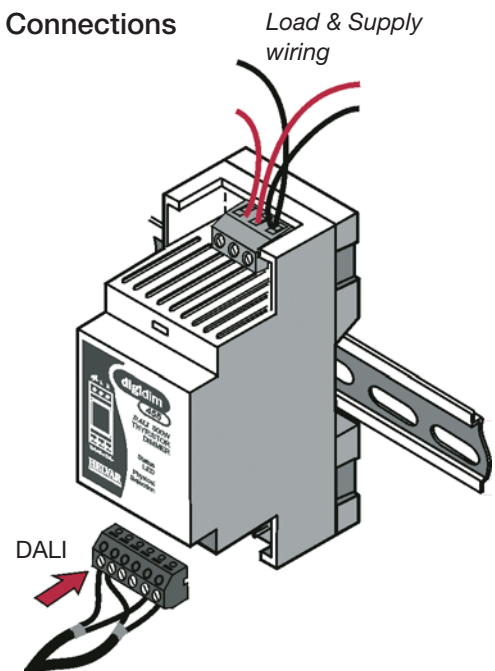
Installation Notes

- The dimmer is for use with incandescent lamps and low voltage lamps via wire-wound transformers. It is suitable for use with electronic transformers, if use is approved by transformer manufacturer.
- The external mains supply must be protected. It is recommended that a 4 A MCB is used.
- All cabling must be 230 V mains rated.



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Connections



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Technical Data

Connections

DALI: Standard DIGIDIM removable connectors with paired terminals, 0.5mm² - 1.5mm² stranded or solid core.

Mains: Up to 4mm² solid core or up to 2.5mm² stranded.

Note: If equipment is used in an electrically noisy environment, the DALI cable should be screened and connected to the earth.

Power

Mains Supply: 220-240 VAC, 50-60 Hz

Heat Dissipation: 3.5 W with maximum load (resistive)

DALI Supply Output: None (Use external DALI power supply)

DALI Consumption: 2 mA

Operating Conditions

Ambient Temperature: 0...40°C Above this temp derate according to above graph.

Relative Humidity: 90% max, non-condensing

Storage Temp: -10°C...+70°C

Mechanical Data

Housing: DIN-rail case 35 mm wide

Weight: 110g

Conformity & Standards

EMC

Emission: EN 55 015

Immunity: EN 61 547

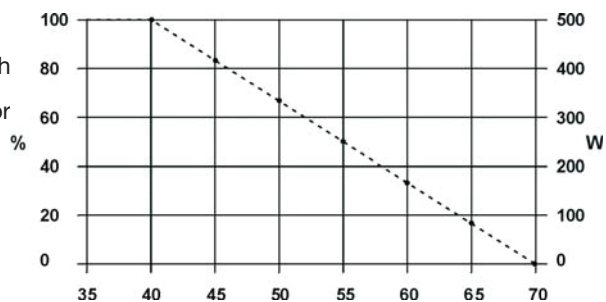
Safety

Safety: EN 60 950

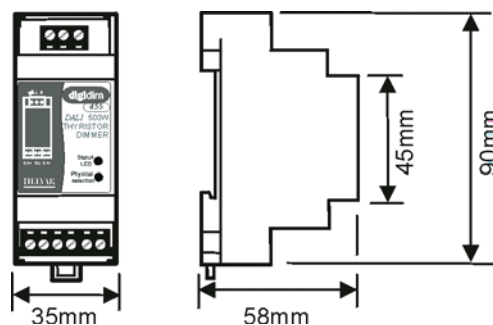
IP Rating: 30

Isolation: 4 kV

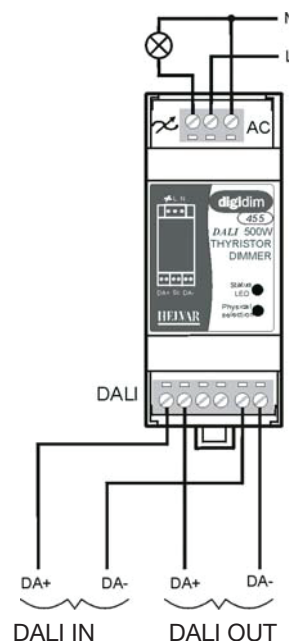
Load Power Derating with Ambient Temperature



Dimensions



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Data subject to change without notice

Doc. D005453, issue 02

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