Product Data Sheet

digidim

452

DIGIDIM 1000W Universal Dimmer

The DIGIDIM 1000 Watt Universal Dimmer 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 1000 W at 230 V. It can be used in two operating modes, either mode can be used with mains voltage lamps. Trailing edge mode is for use with Low voltage lamps with electronic transformers, and leading edge mode is for lamps with magnetic transformers, provided that the transformers are approved for dimming use by their manufacturers. The dimmer is provided with a status LED and a physical selection switch that can be used to identify the device during system configuration.

The dimmer is also provided with an optional addressing switch that allows simple DALI grouping of the device, the default position "0" allows the normal grouping with DIGIDIM remote controller, Toolbox or Designer software.

DIGIDIM 1000 W Universal Dimmer

Key Features

- Out of the box operation. No programming required when using DIGIDIM slider, rotary, or push button panels. For scene panels "preset download" must be carried out.
- Input voltage fluctuation compensation ensures stable output levels with fluctuating incoming mains levels.
- Group selection switch for quick and simple programming
- Operational mode selection switch (Leading or Trailing edge dimming)
- Over current, power and temperature protection
- DIN-rail mounted and only 70 mm wide.

Additional Functions

The following functions may be programmed using the DIGIDIM Toolbox or Designer 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 programmable using IR remote

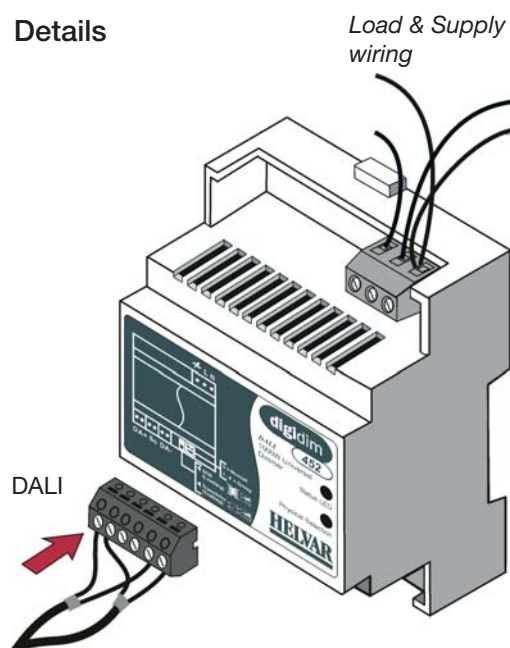### Connection Details

Load & Supply wiring

DALI

Installation Notes

- Check that the operating mode is correct for the installed loads, before changing the operating mode isolate mains supply.
- The external mains supply must be protected. It is recommended that a 6 A MCB is used.
- All cabling must be 230 V mains rated.
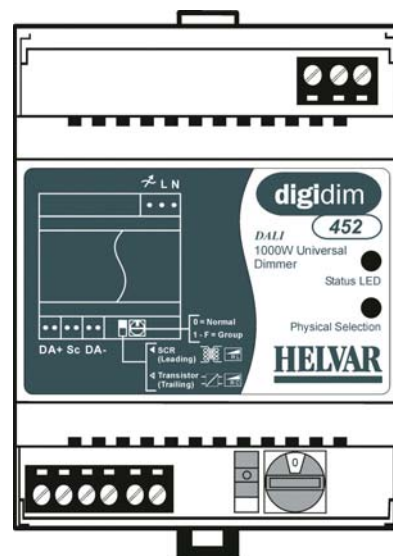
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Connections

DALI:	Removable connectors with paired terminals 0.5 mm² - 1.5 mm² stranded or solid core.
Mains:	Up to 4 mm² solid core or up to 2.5 mm² stranded.

Note: If equipment is used in an electrically noisy environment, ensure the DALI cable is screened and the screen earthed.

Power

Mains Supply:	85 - 264 VAC, 45 - 65 Hz
Load Current:	4.4 A (4.4 A × 230 V = 1000 W)
Heat Dissipation:	7 W with maximum load (resistive)
DALI Consumption:	2 mA

Operating Conditions

Ambient Temperature:	0 to 40°C Above this temperature derate according to above graph
Relative Humidity:	90% max, non-condensing
Storage Temperature:	-10°C to +70°C

Mechanical Data

Housing:	DIN-rail case 70 mm wide
Weight:	180 g

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 vs. Ambient Temperature
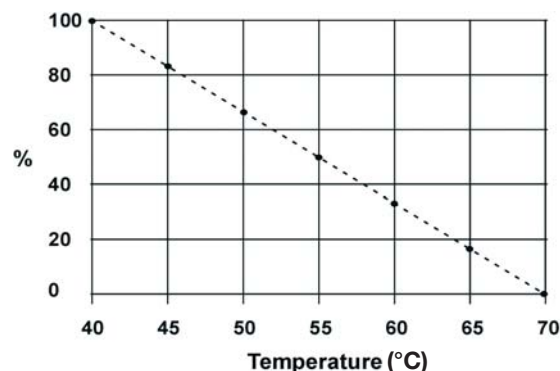
Dimensions

Connections

DALI IN   DALI OUT
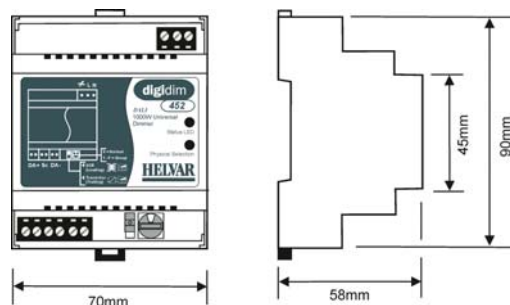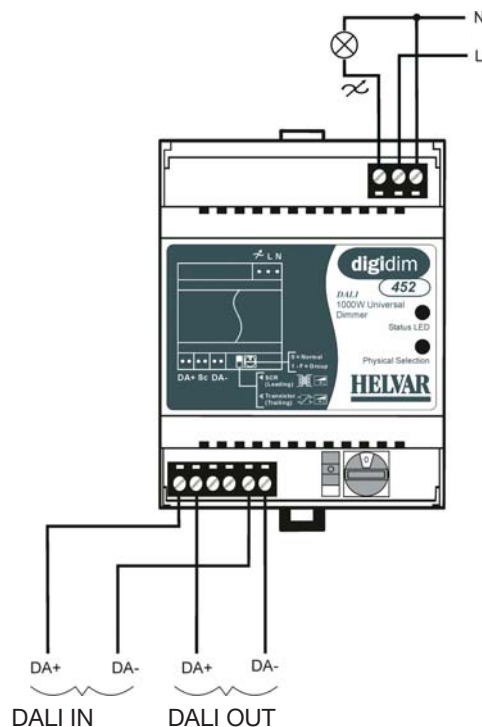
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Data subject to change without notice

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