

DIGIDIM 500 W Thyristor Dimmer (455)

The DIGIDIM 500 W Thyristor Dimmer (leading edge) is a 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 500 W. 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. Therefore, one must be incorporated elsewhere in the system.



Key Features

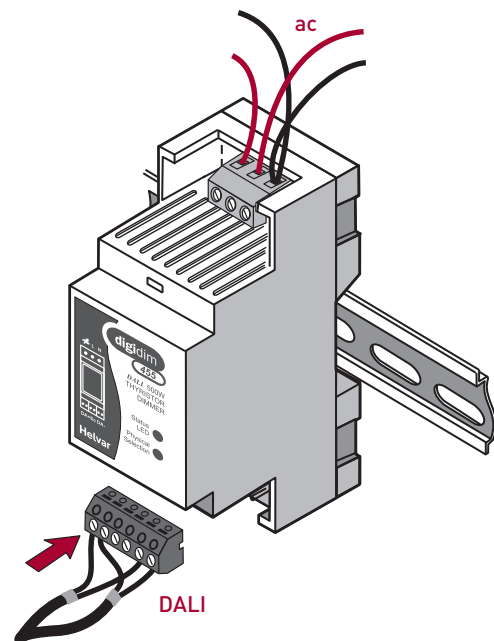
- Out-of-box operation. No programming required when using DIGIDIM slider, rotary or push button panels.
- Input voltage and frequency fluctuation compensation ensures stable output levels with fluctuating incoming mains levels.
- Over current and over temperature protection.
- DIN-rail mounted and only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

Additional Functions

The following functions may be programmed using the DIGIDIM Toolbox software:

- Maximum/minimum levels, fade times*, scenes* and groups*
- Dimmer status report
- System failure level/ignore
- Power on level
- Power on to last level

* These functions are also programmable using a Helvar infrared remote handset.



Technical Data

Connections

DALI: Standard DIGIDIM removable terminal block 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, the DALI cable should be screened and connected to the earth.

Power

Mains supply: 220 VAC – 240 VAC, 50 Hz – 60 Hz
Heat dissipation: 3.5 W with maximum load (resistive)
DALI supply output: None (Use external DALI power supply)
DALI consumption: 2 mA

Mechanical data

Dimensions: 35 mm × 58 mm × 90 mm
Housing: DIN-rail case 35 mm wide
Mounting: DIN rail (installation in switchgear/controlgear cabinet)
Weight: 110 g
IP code: IP30

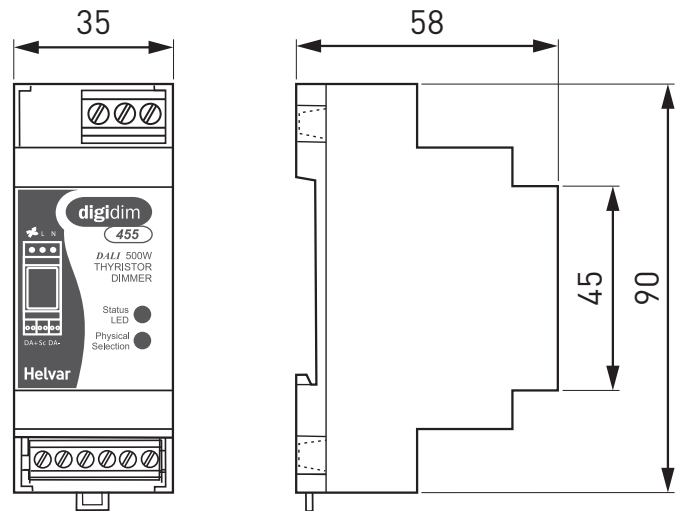
Operating and storage conditions

Ambient temperature: 0 °C to +40 °C
 Above this temperature, derate according to the adjacent graph.
Relative humidity: Max. 90 %, noncondensing
Storage temperature: -10 °C to +70 °C

Conformity and standards

EMC emission: EN 55015
EMC immunity: EN 61547
Safety: EN 61347-2-11
Isolation: 3 kV
Environment: Complies with WEEE and RoHS directives.

Dimensions (mm)



Load Power Derating with Ambient Temperature

