

455 500 W Thyristor Dimmer

The 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 wirewound 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

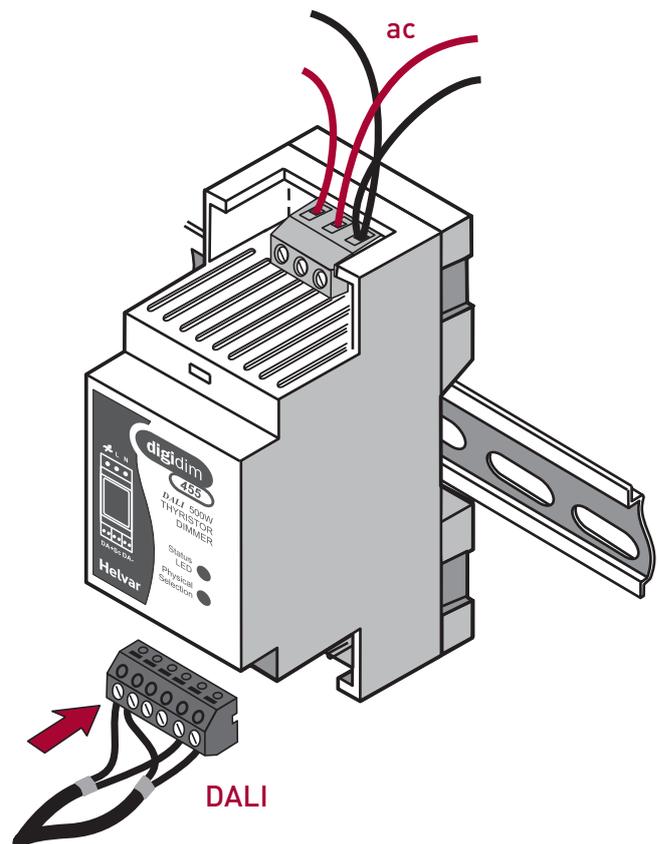
The following functions may be programmed using the DIGIDIM Toolbox software:

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

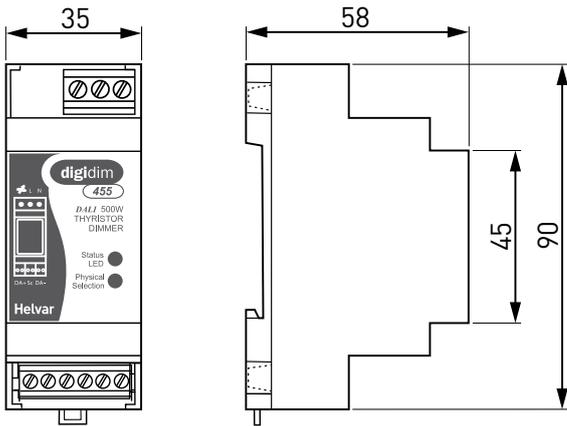
* These functions are also programmable using a Helvar infrared remote handset.



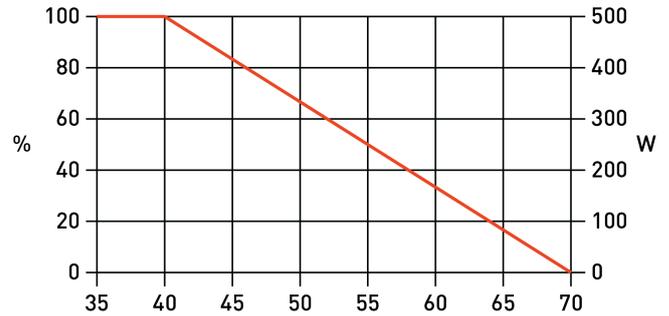
Connections



Dimensions (mm)



Load Power Derating with Ambient Temperature



Technical Data

Connections	
DALI:	Standard DIGIDIM removable terminal block 0.5 mm ² – 1.5 mm ² stranded or solid core
Mains:	Up to 4 mm ² solid core or up to 2.5 mm ² stranded  Note: If equipment is used in an electrically noisy environment, the DALI cable should be screened and connected to the earth.

Electrical data	
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

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

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

Conformity and standards	
Conformity:	
EMC Emission:	EN 55015
EMC Immunity:	ENM 61547
Safety:	EN 61347-2-11
Isolation:	3 kV
Environment:	Complies with WEEE and RoHS directives