

Product Data Sheet

digidim

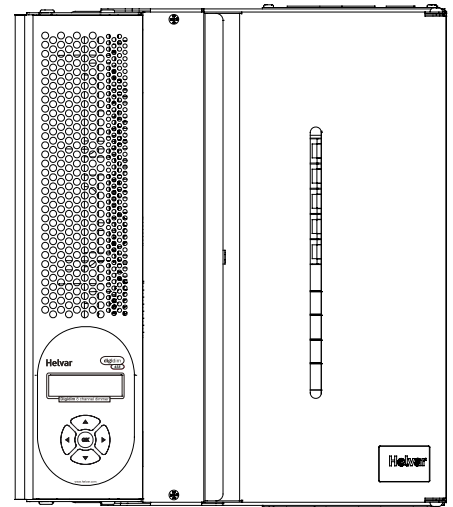
458

8-channel thyristor dimmer

The 458 is an 8-channel digital thyristor dimmer, capable of leading-edge dimming of resistive and inductive loads. It has DALI and S-DIM interfaces, therefore can be fully integrated into *Digidim* and *Imagine* router systems. It can also be used on the *TouchPanel*, or used on standalone DALI or *Digidim* systems.

The dimmer unit has 8 channels rated at 10 A, with a total current capacity of 40A. Each pair of channels is connected to a single 10 A MCB, which, for example, allows one channel to be 8 A and the other 2 A.

The front of the unit is equipped with an LCD display with intuitive cursor control to set some basic configuration parameters and provide basic manual control.



Key Features

- The dimmer unit is vertically wall-mounted and installer-friendly
- The dimmer module can be detached for easy installation and fast swap-out in the field
- LCD display screen and a 5-button keypad for monitoring, configuration and manual control
- It provides an auxiliary power supply, which can be used to power one *TouchPanel*, and has a built-in *Digidim* power supply, which can be used to power DALI systems, if required.
- It is provided with by-pass connectors for operation without the dimmer module, and for testing of the lights and installation wiring.

LCD display



Options Module

There is an internal connection for an options module, which is sold separately.

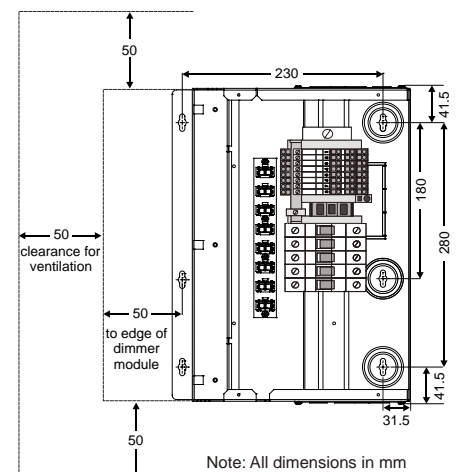
The options module is used to convert 4 channels into either:

- 1-10 V → sink, 50 ballasts drive
- DSI (Digital Signal Interface) → 10 ballasts drive
- PWM (Pulse Width Modulation) → 10 ballasts drive
- DALI broadcast → 10 ballasts drive

Installation Notes

- This involves removing the cover and the dimmer module from the chassis
- Extra mounting holes provided, in case you are replacing an *Imagine* dimmer and wish to use the existing screw locations
- Do NOT connect DALI and S-DIM at the same time
- Please refer to the *458 Dimmer Installation Guide* for detailed guidance

Installation



Helvar
www.helvar.com

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Connections

Mains:	Up to 10.0 mm ²
Loads:	Solid core up to 4.0 mm ² / stranded up to 2.5 mm ²
DALI:	1.0 mm ² to 1.5 mm ² (recommended)
SDIM:	0.22 mm ² 1.5 mm ² multi-stranded (low loss RS485 cable type)
Override:	0.5 mm ² to 1.5 mm ² (screened and twisted)

Power

Mains Supply:	85-264 VAC, 45-65 Hz
Protection:	4 x 10 A MCB, and 4 A MCB and PTC for control board

Supply

Supply current:	40 A
Nominal load:	8 x 5 A or 4 x 10 A, resistive
DALI Supply:	250 mA (max), 16 VDC (nominal)
TouchPanel Supply:	250 mA (max), 16 VDC (nominal)

Environment

Complies with WEEE and RoHS directives

Operating Conditions

Ambient Temperature:	0...40°C
Relative Humidity:	90% max, non-condensing
Storage Temperature:	-10°C...+70°C

Mechanical Data

Housing:	Powder coated steel and aluminium
Heatsink:	Anodised aluminium
Weight:	11.1 Kg

Conformity & Standards

EMC

Emission:	EN 55 015
Immunity:	EN 61 547

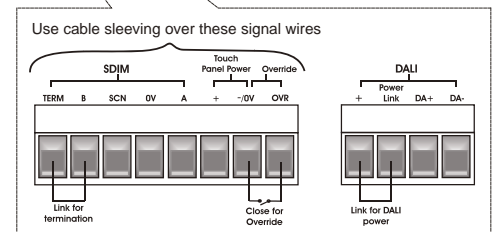
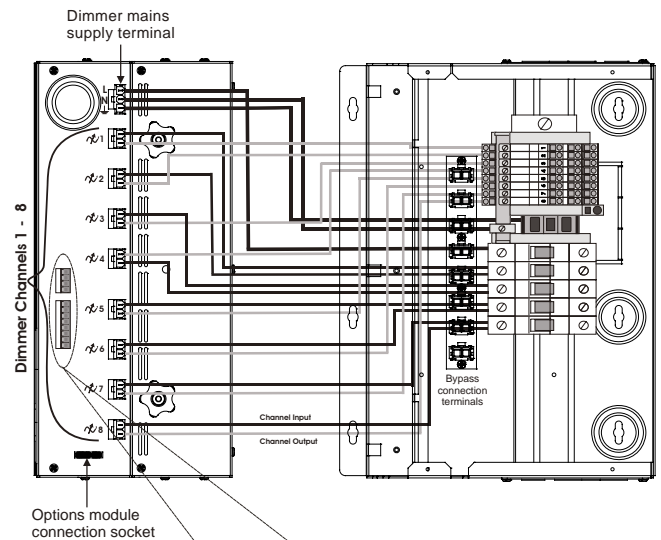
Safety

Safety:	EN 60 950
IP Rating:	20
Isolation:	4 kV

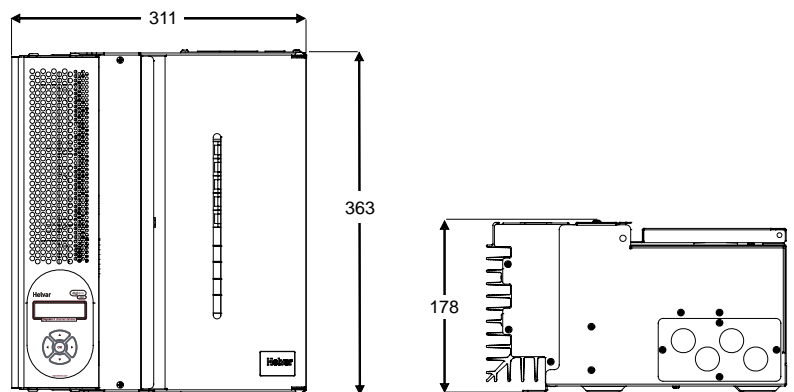
Data transfer requirements

DALI:	According to DALI standard V0 (IEC60929), with Helvar extensions
SDIM:	According to Helvar requirements

Connections



Dimensions



Note: All dimensions in mm