

DIGIDIM 1-10 V & DSI® Converter (472)

The DIGIDIM 1-10 V Converter has been designed to control electronic ballasts that comply with IEC 60929 and ballasts that comply with the DSI® standards. This ensures that DIGIDIM systems are compatible with and easily integrated into existing systems.

The converter can switch a maximum of 15 Helvar electronic ballasts/drivers.

The analogue 1-10 V signal and the digital DSI® signal can control 50 electronic ballasts.

Key Features

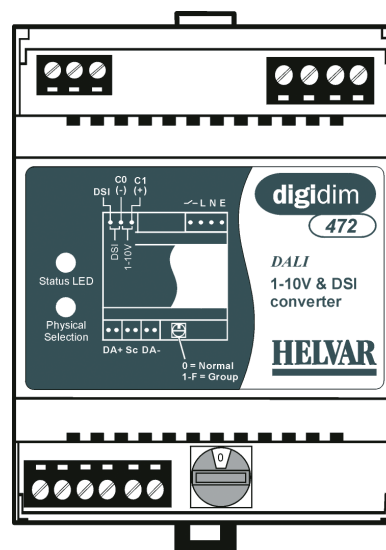
- Out-of-box operation provides control using DALI standard broadcast commands.
- For 1-10 V control, the converter can switch a maximum 15 ballasts/drivers. An external contactor should be used for more ballasts.
- Converter complies with DSI® 1 and DSI® 2 standards.
- Default light output at initial power up is 100 %.
- Operates on a universal supply voltage of 85 VAC – 264 VAC.
- DIN-rail mounted and only 70 mm wide.
- Easy programming by using the group selection switch.

Additional Functions

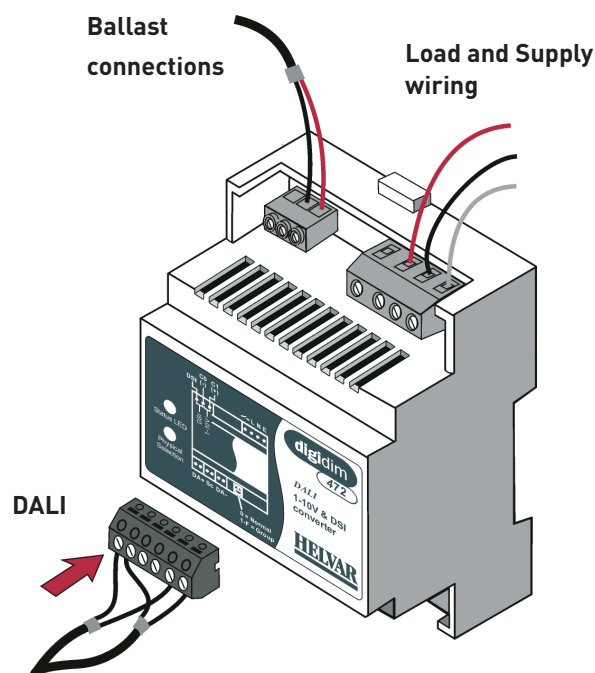
- Controller status report.
 - System failure level/Ignore.
 - Power on to last level.
 - Sink or source mode.
 - Max./Min. levels, Fade times*, Scenes* and Groups*.
- (*These functions are programmable using 303 IR remote)

Installation Notes

- For installation in a restricted access location only
- Isolate the mains supply before installation
- The external mains supply must be protected.
- External protection must not exceed 10 A MCB
- All DALI and mains cabling must be 230 V mains rated
- Install the unit horizontally to allow for heat dissipation
- Any enclosure must provide adequate cooling ventilation
- Refer to the 472 Digidim Converter Installation Guide



Connections



DSI® is a registered trademark of Tridonic GmbH.

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

DSI® / 1–10 V: Up to 2.5 mm²

Power

Mains supply: 85 VAC – 264 VAC, 48 Hz – 62 Hz

Mains output: 10 A resistive, switched live

Load: 15 × EL-HFC ballasts/drivers
(Use external contactor for additional ballasts)

DALI consumption: 2 mA

Analogue output

Voltage range: 1 V – 10 V according to EN 60929

Sink current: 100 mA maximum

Number of devices: 50

Source mode current: 1.5 mA

DSI® output

Number of ballasts: 50

Compliance: Complies with DSI® standard v 2.0

Mechanical data

Dimensions 70 mm × 58 mm × 90 mm

Housing: DIN-rail case 70 mm wide

Weight: 140 g

IP code: IP30 (IP00 at terminals)

Operating and storage conditions

Ambient temperature: 0 °C to +40 °C

Relative humidity: Max. 90 %, non-condensing

Storage temperature: –10 °C to +70 °C

Conformity and standards

Emission: EN 55015

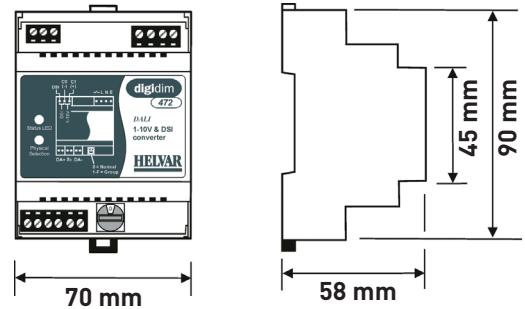
Immunity: EN 61547

Safety: EN 60950

Isolation: 4 kV mains to DALI
3 kV mains to 1–10 V
3 kV mains to DSI®
4 kV DALI to 1–10 V & DSI®

Environment: Complies with WEEE and RoHS directives

Dimensions



Connections

