

472 DIGIDIM 1–10 V & DSI® Converter



The DIGIDIM 1–10 V & DSI® 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.

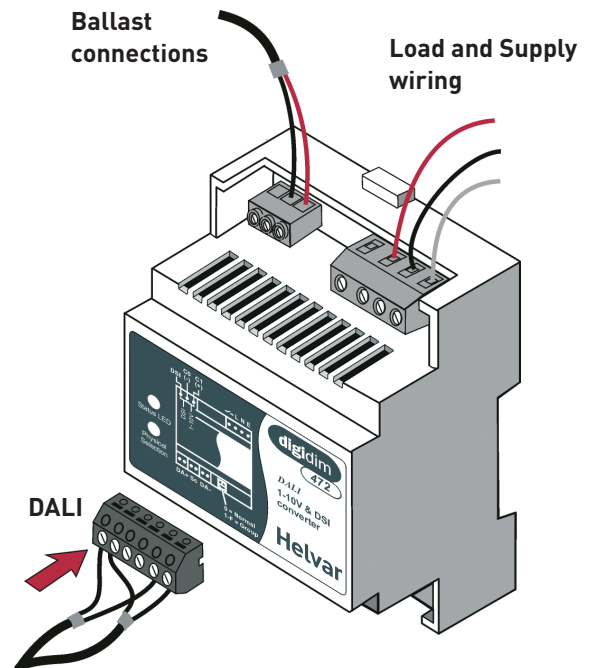


Key Features

- Out-of-box operation provides control using DALI standard broadcast commands.
- For 1–10 V control, the Converter can switch a maximum of 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 %.
- Universal supply voltage operation.
- 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 a Helvar infrared remote control.



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
- Cable rating:** All cabling must be mains rated.

Power

- Mains supply:** 100 VAC – 240 VAC (nominal)
85 VAC – 264 VAC (absolute)
48 Hz – 62 Hz

- Mains output:** 10 A resistive, switched live
- Load:** 15 × EL-HFC ballasts/drivers (Use external contactor for additional ballasts)

- External protection:** The mains supply must be protected at 10 A maximum. The relay must be protected by a 10 A Type C MCB maximum.

- 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
- Mounting:** DIN rail (installation in switchgear/controlgear cabinet)
- Weight:** 140 g
- IP code:** IP30 (IP00 at terminals)

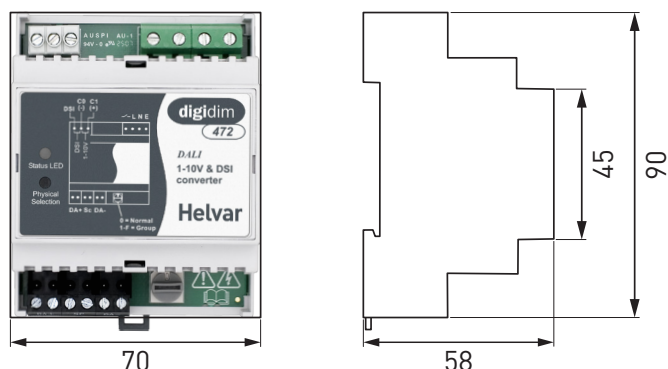
Operating and storage conditions

- Ambient temperature:** 0 °C to +40 °C
- 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 mains to DALI
3 kV mains to 1-10 V
3 kV mains to DSI®
1.5 kV DALI to 1-10 V & DSI®
- Environment:** Complies with WEEE and RoHS directives.

Dimensions (mm)



Connections

