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.