

8-Channel Latching Relay Unit (499)

The DIGIDIM 8-Channel Latching Relay Unit is an eightchannel controller that supports high-inrush loads up to 20 A per output. Each output is controlled individually, and any mains-supply phase can be connected on any of them.

Conceived for installations that use a lot of power, such as high-bay luminaires and HID lamps, the 499 can handle short-lived high-peak inrush currents during switch-on of loads.

The unit has a lever switch per circuit that allows manual switching. You can see the position of the relays at any moment, turn on and off the lights for testing and commissioning purposes, or switch the loads on and off even if the unit loses power, among other benefits. In addition, if power is disconnected to the unit, the relays stay in the same position.

The 499 can be networked through DALI, SDIM or DMX communication into a DIGIDIM or Imagine lighting control system, and it is DIN-rail mounted for ease of installation.

It has an intuitive LED segment display, as well as push buttons for monitoring, manual configuration and control purposes.



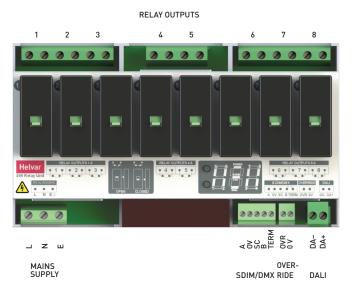
Helvar

freedom in lighting

Connections

Key Features

- Latching, single-pole, bistable relays with manual control.
- Wired override input to allow for external triggers.
- Manual control switch per channel.
- LED-segment display and push buttons.
- Can operate as:
 - 8 individual channels (8 × DALI addresses);
 - 4 sets of 2 channels (4 × DALI addresses); or
 - 2 sets of 4 channels (2 × DALI addresses).
- Staggered switch-on with 100 ms delay per relay.
- All functions can be programmed with Helvar's Toolbox and Designer software.



Technical Data



freedom in lighting

160 mm × 100 mm × 46 mm

(polycarbonate) DIN-rail case

IP20 (IP00 at terminals)

Max. 90 %, noncondensing

9 U white plastic

0 °C to +40 °C

-10 °C to +70 °C

IEC 62386:101 2014

IEC 62386:102 2014

IEC 62386:208 2009

Helvar SDIM protocol

Complies with WEEE and RoHS

DMX512-A protocol

EN 55015

EN 61547

EN 60950

directives

160 mm

425 g

Connections Mechanical data Mains/relay: Up to 4 mm² solid core or up to Dimensions: 2.5 mm² stranded Housing: $0.5 \text{ mm}^2 - 1.5 \text{ mm}^2 \text{ stranded or}$ DALI: solid core Weight: Max. length: 300 m @ 1.5 mm² IP code: 0.22 mm² – 1.5 mm² / SDIM/DMX: **Operating and storage conditions** low-loss RS485 type multistranded, twisted and Ambient temperature: shielded **Relative humidity:** Cable rating: All cables must be mains Storage temperature: rated **Conformity and standards** Power DALI standard: 85 VAC - 264 VAC Mains supply: 45 Hz – 65 Hz 0.3 W Power consumption: Emission: Internal losses: 0.6 W per channel at 20 A Immunity: Control circuit protection: 6 A maximum. The unit's mains Safety: supply must be protected. SDIM: Isolation: 3 kV between every connector. DMX: with these exceptions: Environment: SDIM OV and OVR OV are NOT isolated from each other. DALI DALI addresses: 8.4. or 2 DALI consumption: 2 mA Inputs Dimensions Communication: DALI, SDIM and DMX Override: Wired override input User interface: 2 push buttons for configuration Channels: 8 Relay contacts: High inrush 500 A / 2 ms Relay voltage: 240 VAC / 400 VAC Max. load per contact: 20 A resistive / incandescent;

20 A, PF 0.6 / fluorescent

Relay circuit external protection

Where power relays are used to control contactors, snubbers

For ballasts, quantity is limited by MCB; refer to manufacturer's data.

must not exceed 20 A. These are power relays and are not suitable for extra-low

voltage operation.

must be fitted.

ШШ 90 46 mm

Helvar 8-Channel Latching Relay Unit: Datasheet

Number of devices: