

## 8-Channel Relay Unit (498)

The DIGIDIM 498 8-Channel Relay Unit is fitted with high-inrush specification relays rated at 16 A per channel, which handle short-lived high peak inrush currents during switch-on of loads.

It can be networked through either DALI or SDIM communication to be incorporated into a DIGIDIM or Imagine lighting control system.

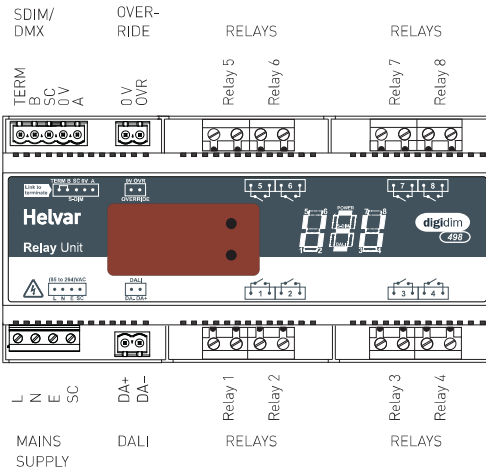
The unit has an intuitive LED segment display and push buttons for monitoring, manual configuration and control purposes.



### Key Features

- High-inrush specification relays (single pole, normally open).
- Wired override input to allow for external triggers.
- LED segment display and push buttons.
- Can operate as:
  - 8 individual channels (8 × 1);
  - 4 sets of 2 channels (4 × 2); or
  - 2 sets of 4 channels (2 × 4).

### Connections



## Technical Data

### Connections

<b>Mains/relay:</b>	Up to 4 mm <sup>2</sup> solid or up to 2,5 mm <sup>2</sup> stranded
<b>DALI:</b>	0,5 mm <sup>2</sup> – 1,5 mm <sup>2</sup> solid or stranded Max. length: 300 m @ 1,5 mm <sup>2</sup>
<b>SDIM/DMX:</b>	0,22 mm <sup>2</sup> – 1,5 mm <sup>2</sup> low-loss RS485 type multistranded, twisted and shielded

**Cable rating:** All cables must be mains rated.

### Power

<b>Mains supply:</b>	85 VAC – 264 VAC 45 Hz – 65 Hz
<b>Power consumption:</b>	2,6 W
<b>Standby power consumption:</b>	1,1 W
<b>Internal losses:</b>	2,1 W + max. 1,6 W per channel
<b>Control circuit protection:</b>	6 A maximum. The unit's mains supply must be protected.
<b>DALI consumption:</b>	2 mA
<b>Isolation:</b>	4 kV between every connector, with these exceptions: SDIM 0 V and OVR 0 V are NOT isolated from each other.

**Compliance:** Complies with DSI standard v 2.0.

### Inputs

<b>Communication:</b>	DALI, SDIM and DMX
<b>Override:</b>	Wired override input
<b>User interface:</b>	2 push buttons for configuration
<b>Channels:</b>	8 (2 channels per four-way connector)

**Relay contacts:** High inrush (200 µs at 800 A), single-pole, single-throw (SPST) relay.  
W premake contact + AgSnO<sub>2</sub>. Optimised for high currents.

**Relay voltage:** 240 VAC / 400 VAC

**Max. load per contact:** 16 A resistive / incandescent;  
10 A HID (cos φ = 0,6)

**Number of devices:** For ballasts, quantity is limited by MCB; refer to manufacturer's data. Relay circuit external protection must not exceed 16 A. These are power relays and therefore not suitable for extra-low voltage operation. Where power relays are used to control contactors, make sure that snubbers are fitted.

### Mechanical data

<b>Dimensions:</b>	160 mm × 90 mm × 58 mm
<b>Housing:</b>	White plastic (polycarbonate) DIN-rail case
<b>Weight:</b>	400 g
<b>IP code:</b>	IP30 (IP00 at terminals)

### Operating and storage conditions

<b>Ambient temperature:</b>	0 °C to +40 °C
<b>Relative humidity:</b>	Max. 90 %, noncondensing
<b>Storage temperature:</b>	-10 °C to +70 °C

### Conformity and standards

<b>Emission:</b>	EN 55015
<b>Immunity:</b>	EN 61547
<b>Safety:</b>	EN 60950
<b>DALI:</b>	DALI standard IEC 60929, with Helvar additions
<b>SDIM:</b>	Helvar SDIM protocol
<b>DMX:</b>	DMX512-A protocol
<b>Environment:</b>	Complies with WEEE and RoHS directives.

### Dimensions (mm)

