

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.

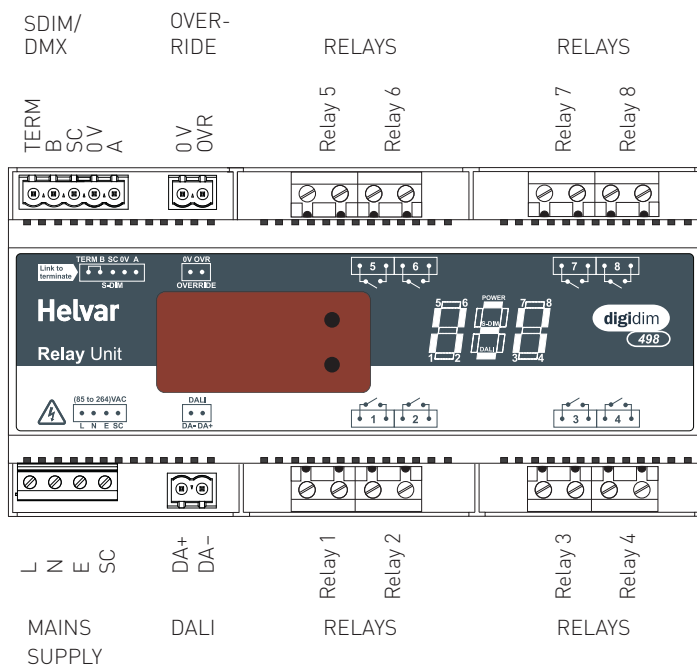
The unit has an intuitive LED segment display and push buttons for monitoring, manual configuration and control purposes.



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

Mains/relay:	Up to 4 mm ² solid or up to 2.5 mm ² stranded
DALI:	0.5 mm ² – 1.5 mm ² solid or stranded Max. length: 300 m @ 1.5 mm ²
SDIM/DMX:	0.22 mm ² – 1.5 mm ² low-loss RS485 type multistranded, twisted and shielded

Cable rating: All cables must be mains rated.

Power

Mains supply:	85 VAC – 264 VAC 45 Hz – 65 Hz
Power consumption:	2.6 W
Standby power consumption:	1.1 W
Internal losses:	2.1 W + max. 1.6 W per channel
Control circuit protection:	6 A maximum. The unit's mains supply must be protected.
DALI consumption:	2 mA
Isolation:	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

Communication:	DALI, SDIM and DMX
Override:	Wired override input
User interface:	2 push buttons for configuration
Channels:	8 (2 channels per four-way connector)
Relay contacts:	High inrush (200 μ s at 800 A), single-pole, single-throw (SPST) relay. W premake contact + AgSnO ₂ . 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

Dimensions:	160 mm × 90 mm × 58 mm
Housing:	White plastic (polycarbonate) DIN-rail case
Weight:	400 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

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

Dimensions (mm)

