

DIN Rail 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.

The 498 relay unit can be networked through either DALI or S-DIM 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

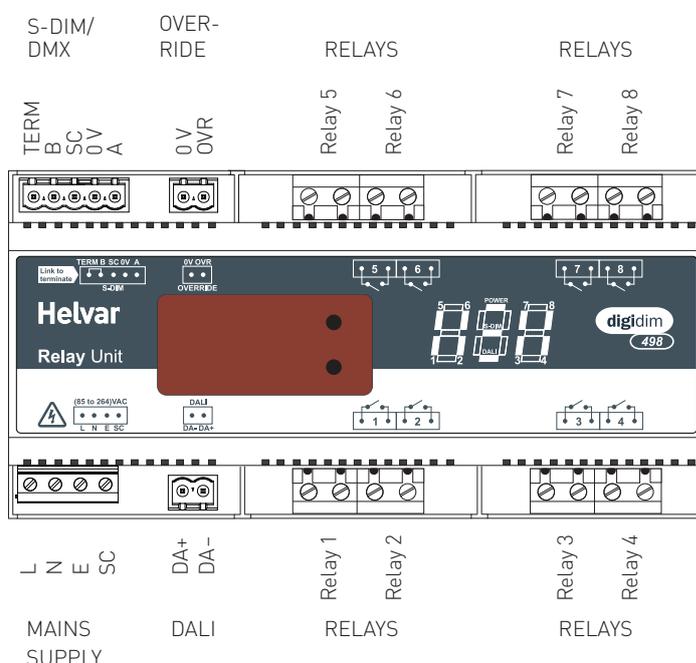
- High inrush specification relays (single pole, normally open)
- Wired override input to allow for external triggers
- LED segment display and push buttons
- Can operate as: 8 individual channels (8 × 1) or
- 4 sets of 2 channels (4 × 2) or
- 2 sets of 4 channels (2 × 4)

Installation Notes

- For installation in a restricted access location only
- Isolate the mains supply before installation
- The unit's mains supply must be protected.
- External protection must not exceed 6 A
- All DALI and mains cabling must be 230 V mains rated
- Do not connect DALI or S-DIM / DMX at the same time
- Install the unit horizontally to allow for heat dissipation
- Any enclosure must provide adequate cooling ventilation
- Please refer to the 498 DIN Rail 8-Channel Relay Unit (Helvar document 7860184).



Connections



Technical Data

Connections

DALI:	0.5 mm ² – 1.5 mm ² stranded or solid core (max. 300 m @ 1.5 mm ²)
Mains/relay:	Up to 4 mm ² solid core or up to 2.5 mm ² stranded
S-DIM / 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 0V and OVR 0V are NOT isolated from each other
Compliance:	Complies with DSI standard v 2.0

Inputs

Communication:	DALI, S-DIM and DMX
Override:	Wired override input
User interface:	2 push buttons for configuration
Channels:	8 (2 channels per 4-way connector)
Relay contacts:	High inrush (200 μs at 800 A), single-pole, single-throw (SPST) relay. W pre-make 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 are not suitable for extra low-voltage operation. Where power relays are used to control contactors, please ensure snubbers are fitted.

Mechanical data

Dimensions:	160 mm × 100 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 %, non-condensing
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
S-DIM:	Helvar S-DIM protocol
DMX:	DMX512-A protocol
Environment:	Complies with WEEE and RoHS directives

Dimensions

