

DIN Rail 8-Channel Relay Unit

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.

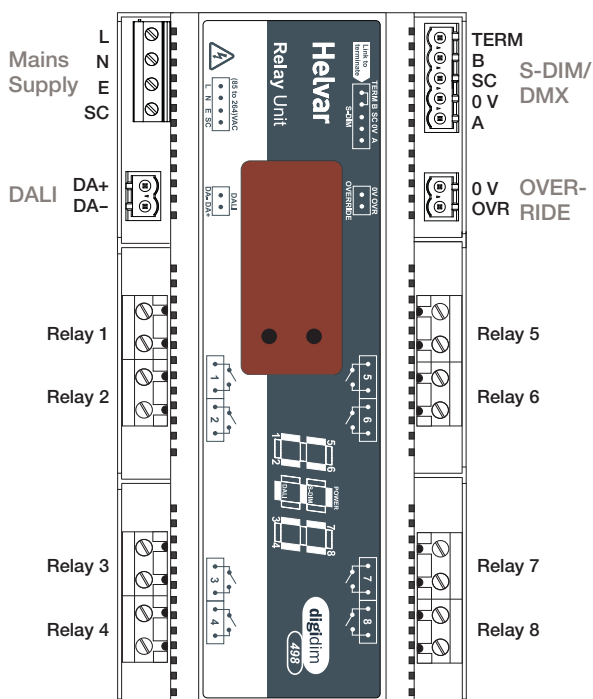
The unit has an intuitive LED segment display and push buttons for monitoring, manual configuration and control purposes.



Key Features

- High inrush specification relays (single pole, normal open)
- Wired override input to allow for external triggers
- LED segment display and push buttons
- Can operate as: 8 individual channels (8x1);
4 sets of 2 channels (4x2) or
2 sets of 4 channels (2x4)

Connections



Installation Notes

- For installation in a restricted access location only
- Isolate the mains supply before installation
- The external mains supply must be protected.
External protection must not exceed 6 A MCB
- 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 4-Channel Ballast Controller Installation Guide

Technical Data

Connections

Mains/relay:	Solid core: up to 4 mm ² Stranded: 2.5 mm ²
DALI:	0.5 mm ² - 1.5 mm ² (max. 300 m @ 1.5 mm ²)
S-DIM / DMX:	0.22 mm ² - 1.5 mm ² low loss RS485 Type (multi-stranded, twisted and shielded)
Relay channels:	2 channels per 4-way connector; 2.5 mm ² stranded

Power

Mains Supply:	85 - 264 VAC, 45 - 65 Hz
Power Consumption:	2.6 W
Power Circuit Protection:	6 A MCB maximum. The external supply must be protected.
DALI Consumption:	2 mA

Inputs

Communication:	DALI, S-DIM and DMX
Override:	Wired override input
User interface:	2 push buttons for configuration

Relay contacts

Channels:	8
Relay contacts:	High inrush (200 µs at 800 A), single pole normally open (SPNO)
Max. load per contact:	16 A resistive / incandescent; 10 A HID (cos φ = 0.6)

For ballasts, quantity is limited by MCB, refer to manufacturer's data. Relay circuit external protection must not exceed 16 A type C MCB.

Operating and Storage Conditions

Ambient Temperature:	0°C to 40°C
Relative Humidity:	90% max, non-condensing
Storage Temperature:	-10°C to +70°C

Mechanical Data

Housing:	DIN-rail case; 9U
Weight:	400 g
IP Rating:	IP30 (00 at terminals)

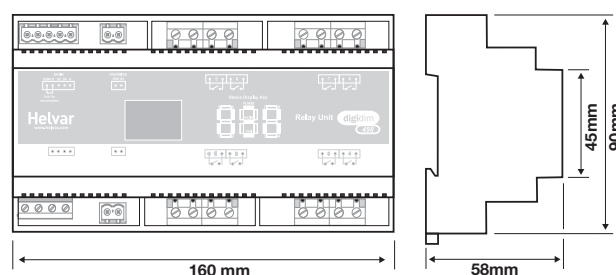
Conformity and Standards

DALI:	According to DALI standard IEC 62386, with Helvar additions
S-DIM:	According to Helvar S-DIM protocol
DMX:	According to DMX512-A protocol
Environment:	Complies with WEEE and RoHS directives

EMC

Emission:	EN 61000-6-3
Immunity:	EN 61 547
Safety:	EN 60 950
Isolation:	4 kV between every connector (apart from common C0 ballast output terminals and S-DIM and Override connectors)

Dimensions



- For further information see www.helvar.com
- Für weitere Informationen siehe www.helvar.com
- Lisätietoja: www.helvar.com
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