

## 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.



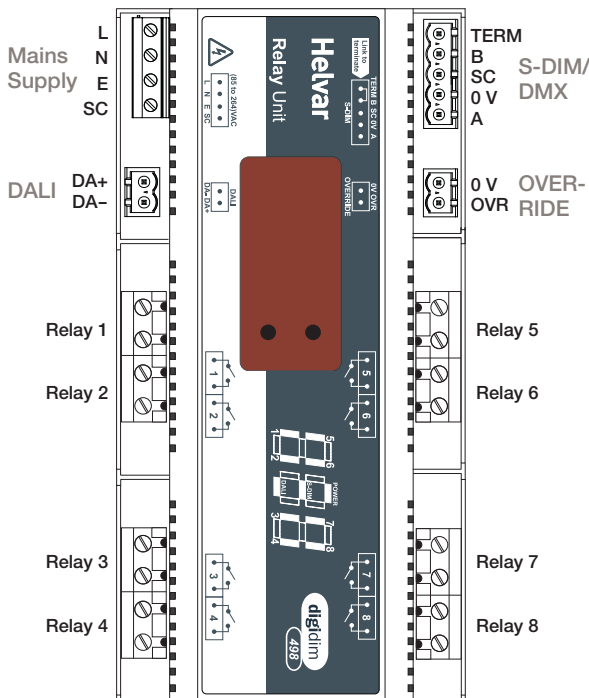
### Key Features

- 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)

### 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

### Connections



## Technical Data

### Connections

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

### Power

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

### Inputs

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

### Relay contacts

<b>Channels:</b>	8
<b>Relay contacts:</b>	High inrush (200 µs at 800 A), single pole normally open (SPNO)
<b>Max. load per contact:</b>	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

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

### Mechanical Data

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

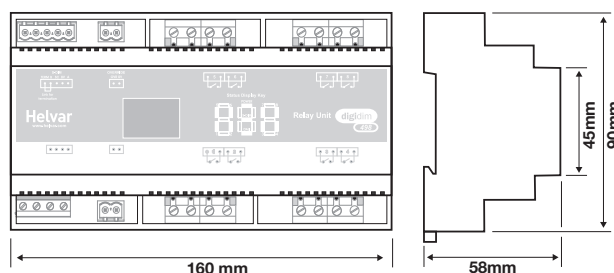
### Conformity and Standards

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

### EMC

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

### Dimensions



- EN** For further information see [www.helvar.com](http://www.helvar.com)
- DE** Für weitere Informationen siehe [www.helvar.com](http://www.helvar.com)
- FI** Lisätietoja: [www.helvar.com](http://www.helvar.com)
- SE** För mer information besök [www.helvar.com](http://www.helvar.com)
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