

498 8-Channel Relay Unit

The 498 8-Channel Relay Unit is fitted with highinrush 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 or Imagine lighting control system.

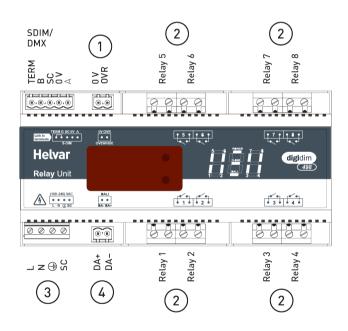
The unit has an intuitive LED segment display and push buttons for monitoring, manual configuration and control purposes.

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 x 1)
 - 4 sets of 2 channels (4 × 2)
 - 2 sets of 4 channels (2 × 4)



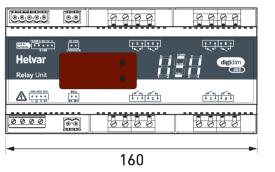
Connections

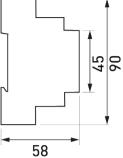


- 1. Override
- 2. Relays
- 3. Mains supply
- 4. DALI



Dimensions (mm)





Technical Data

Connections	
Mains/relay:	Up to 4 mm² solid or up to 2.5 mm² stranded
DALI:	0.5 mm² – 1.5 mm² solid or stranded. Max. length: 300 m @ 1.5 mm²
SDIM/DMX:	0.22 mm² – 1.5 mm² low-loss RS485 type (multistranded, twisted and shielded). Max. length: 1000 m (lowloss cable). Examples: Belden 8102 or Alpha 6222C.
	Note: One twisted pair for A and B (85 Ω to 100 Ω impedance), one core or twisted pair for 0 V, and shield for screen.
Cable rating:	Mains cables, relay cables and DALI cables must be mains rated.

Electrical data	
Mains supply:	100 VAC – 240 VAC (nominal)
	85 VAC – 264 VAC (absolute)
	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
External protection:	The mains supply must be protected at 6 A maximum. The relays must be protected by a 16 A Type C MCB maximum.
DALI consumption:	2 mA
Compliance:	Complies with DSI standard v 2.0.
Isolation:	Between every connector, with this exception: 'SDIM 0 V' and 'OVR 0 V' are not isolated from each other.

Operating and storage conditions	
Ambient temperature:	0 °C to +40 °C
Relative humidity:	Max. 90 %, non-condensing
Storage temperature:	-10 °C to +70 °C

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 (800 A at 200 μs), singlepole, single-throw (SPST) relay. W premake contact + AgSnO ₂ . Optimised for high currents.
Relay voltage:	240 VAC (400 VAC between channels)
Max. load per contact:	16 A resistive/incandescent 10 A HID (cos y = 0.6)
Number of devices:	For ballasts, quantity is limited by MCB; refer to manufacturer's data. These are power relays and therefore not suitable for extralow 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
Weight:	400 g
Housing:	Plastic (polycarbonate) DIN-rail case
Mounting:	DIN rail (installation in switchgear/ control- gear cabinet)
IP rating:	IP30 (IP00 at terminals)

Conformity and standards	
Conformity:	C€ CA
EMC emission:	EN 55015
EMC immunity:	EN 61547
Safety:	EN 61347-2-11
DALI:	IEC 60929, with Helvar extensions
SDIM:	Helvar protocol (RS485, 115 kbps)
DMX:	DMX512-A protocol (max. refresh rate: 33 Hz)
Environment:	Complies with WEEE and RoHS directives.