

8-Channel Ballast Controller Module (458/CTR8)

The 458/CTR8 is an eight-channel digital ballast controller module capable of controlling 0–10 V, 1–10 V, DSI®, DALI broadcast or PWM loads. It has both a DALI and an SDIM/DMX interface, and therefore can be fully integrated into a DIGIDIM or an Imagine router system. It can also be used on the TouchPanel or on standalone DALI or DIGIDIM systems.

The module has eight high-inrush relays, rated at 16 A per channel.

The front of the module is equipped with an LCD display and a keypad to set basic configuration parameters and provide basic control of channel and output levels.

The module is easily fitted to a 458Mx chassis, in which each load channel is protected by an individual MCB.

Note: The 458/CTR8 8-Channel Ballast Controller Modules are supplied separately from the 458Mx chassis.

Key Features

- Easily attached to a 458Mx chassis and connected to the mains supply for quick installation.
- LCD display screen and a five-button keypad for monitoring, configuration and manual control.
- Universal mains power supply: 85 VAC – 264 VAC (absolute).

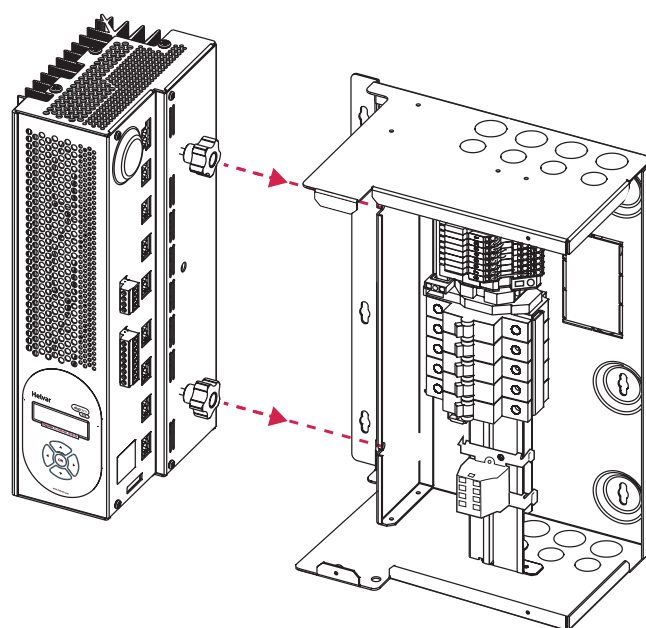
Control Features

Each channel of the control module can be configured to operate in any of the following modes:

- 0–10 V → source 20 mA
- 1–10 V → sink 100 mA
- DSI® (Digital Signal Interface) → source 100 mA
- PWM (Pulse Width Modulation) → source 100 mA
- DALI broadcast → source 100 mA



LCD Display



DSI® is a registered trademark of Tridonic GmbH.

Technical Data

Connections

DALI:	0.5 mm ² – 1.5 mm ² (max. 300 m @ 1.5 mm ²)
SDIM/DMX:	0.22 mm ² – 1.5 mm ² low-loss RS485 Type (multistranded, twisted and shielded)
Override (OVR):	0.5 mm ² – 1.5 mm ² (screened and twisted)

Relay

Relay contacts:	High inrush, single pole, single throw (SPST), normally open (NO), volt-free
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Voltage: 400 VAC

Max. load per contact: 16 A resistive/incandescent, 10 A HID (cos ϕ = 0.6).

Note: For ballasts, quantity is limited by MCB: refer to manufacturer's data. External protection must not exceed 16 A type C MCB.

Outputs

0–10 V: Source 20 mA

1–10 V (50 ballasts): Sink 100 mA

DALI/DSI® (50 ballasts): Source 100 mA

PWM +/- (50 ballasts): Source 100 mA

Power

Mains supply: 100 VAC – 240 VAC (nominal)
85 VAC – 264 VAC (absolute)
45 Hz – 65 Hz

Power consumption: 1.2 W (excluding loads)

Protection

Power circuit protection: 6 A max. external protection, earth mandatory

Thermal protection: Control board – resettable fuse

Installation

Mounting: Attached to 458M1, 458M2, or 458M3 chassis

Mechanical data

Dimensions: 105 mm × 360 mm × 170 mm

Housing: Powder coated steel (black)

Weight: 2.2 kg

IP code: IP20

Operating conditions and storage

Ambient temperature: 0 °C to +40 °C

Relative humidity: Max. 90 %, noncondensing

Storage temperature: –10 °C to +70 °C

Conformity and standards

EMC emission: EN 55015

EMC immunity: EN 61547

Safety: EN 60950

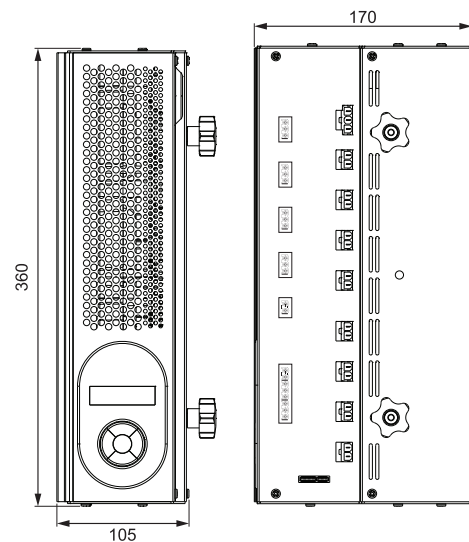
DALI data transfer: According to DALI standard IEC 60929, with Helvar extensions

SDIM data: Helvar protocol (RS485, 115 kbps)

DMX data: DMX512-A protocol (max. refresh rate: 33 Hz)

Environment: Complies with WEEE and RoHS directives.

Dimensions (mm)



Connections

