

458/CTR8 8-Channel Ballast Controller Module

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, 6 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

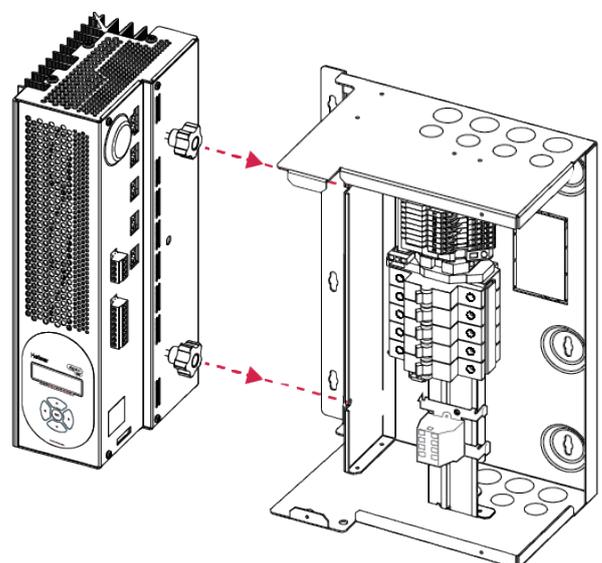
- Easily attached to a 458Mx chassis and connected to the mains supply for quick installation
- LCD display screen and a five-button keypad for monitoring, configuration and manual control
- Universal mains power supply: 100–240 VAC

Control Features

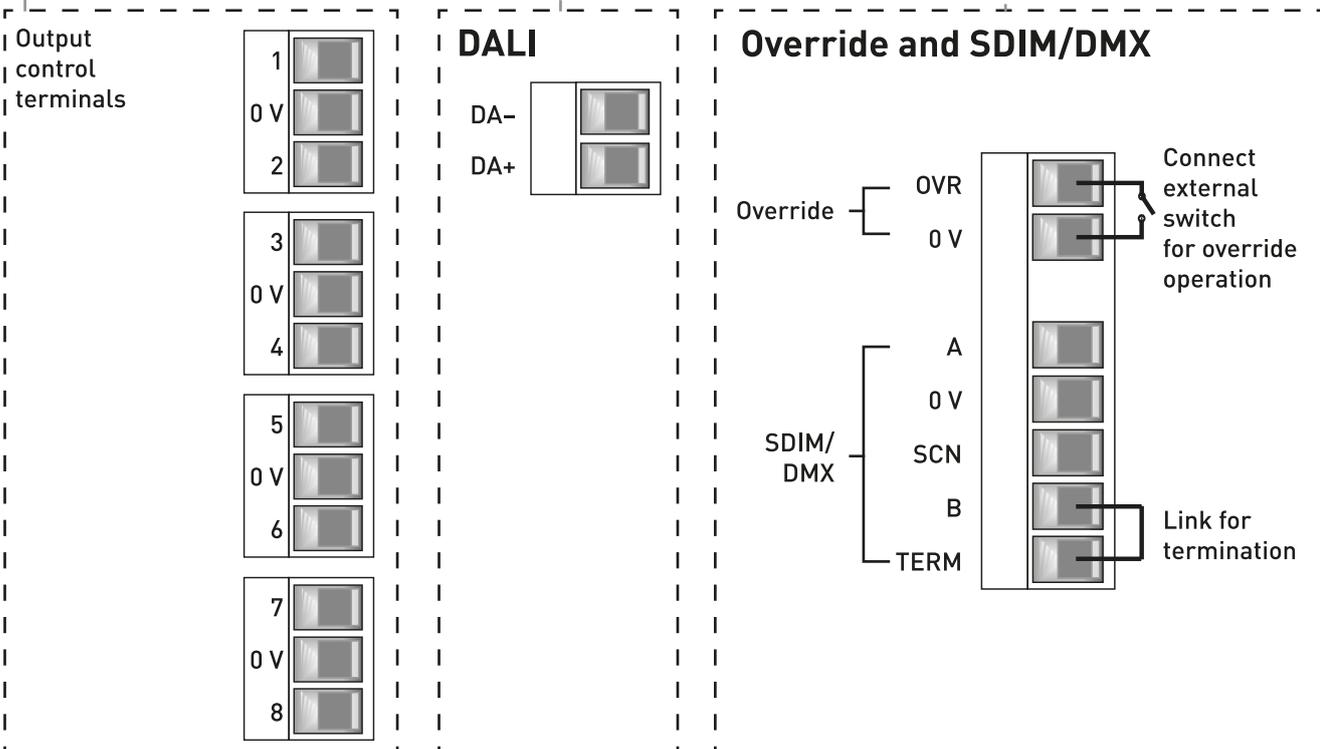
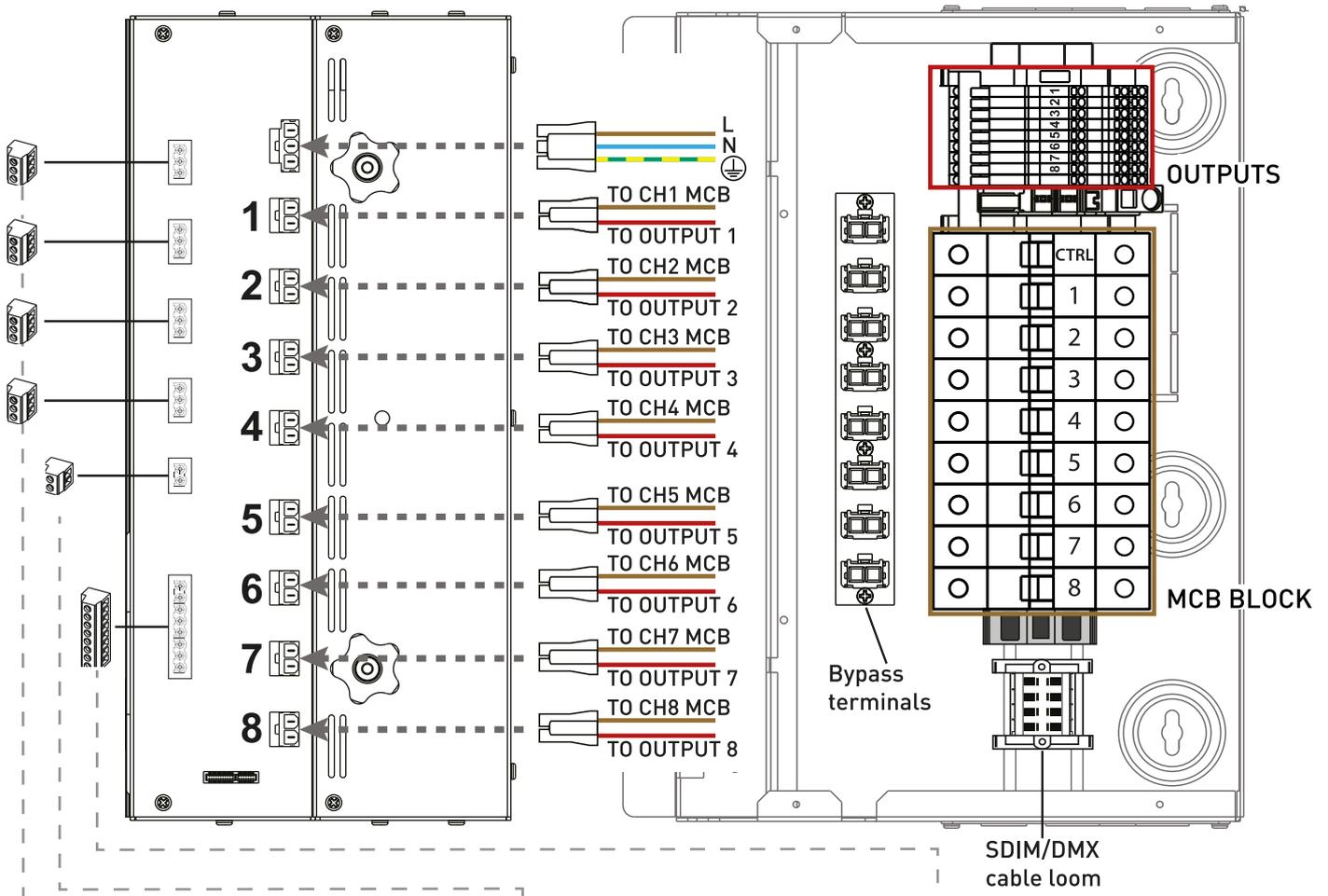
Each channel of the control module can be configured to operate in any of the following modes:

| | |
|---------------------------------|---------------|
| 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 |

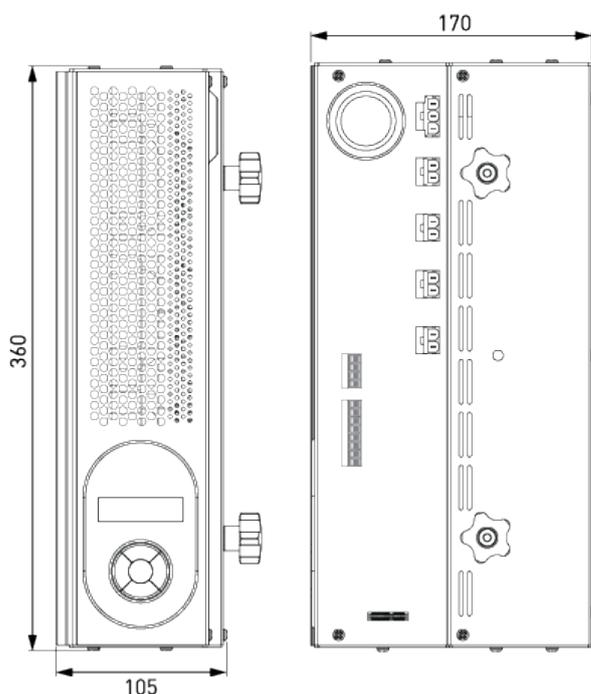
DSI® is a registered trademark of Tridonic GmbH.



Connections



Dimensions (mm)



Technical Data

Connections

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

Electrical data

| | |
|--------------------|-------------------------|
| Mains supply: | 100–240 VAC, 50/60 Hz |
| Power consumption: | 1.2 W (excluding loads) |

Operating and storage conditions

| | |
|----------------------|--------------------------|
| Ambient temperature: | 0 °C to +40 °C |
| Relative humidity: | Max. 90 %, noncondensing |
| Storage temperature: | -10 °C to +70 °C |

Mechanical data

| | |
|---------------------|---|
| Dimensions: | 105 × 360 × 170 mm |
| Weight: | 2.2 kg |
| Mounting: | Attached to 458M1, 458M2 or 458M3 chassis |
| Material (housing): | Housing: Powder coated steel (black) |
| IP rating: | IP20 |

Relay

| | |
|------------------------|--|
| Relay contacts: | High inrush, single pole, single throw (SPST), normally open (NO), volt-free |
| Voltage: | 400 VAC |
| Max. load per contact: | Chassis MCB limit 6 A per channel |
| | Note: For ballasts, quantity is limited by MCB: refer to manufacturer's data. External protection must not exceed 6 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 |

Protection

| | |
|---------------------------|---|
| Power circuit protection: | 6 A max. external protection, earth mandatory |
| Thermal protection: | Control board – resettable fuse |

Conformity and standards

| | |
|----------------|---|
| Conformity: |  |
| EMC emission: | EN 55015 |
| EMC immunity: | EN 61547 |
| Safety: | EN 61347-2-11 |
| Harmonics: | EN 61000-3-2* |
| | * Professional equipment. Total rated power > 1 kW. |
| DALI & 1–10 V: | IEC 60929 with Helvar extensions |
| SDIM: | Helvar protocol (RS485, 115 kbps) |
| DMX: | DMX512-A protocol (max. refresh rate: 33 Hz) |
| Environment: | Complies with WEEE, RoHS and REACH directives. |