458/SW8 8-Channel Switching Module

The 458/SW8 8-channel switching module contains 8 relay channels (normally open), capable of switching 16A per channel. It uses high inrush relays to withstand short-lived high peak current inrush when switching on loads.

It has both a DALI and an S-DIM/DMX interface, and therefore can be fully integrated into a Digidim or an Imagine router system.

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

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

Note: The 458/SW8 modules are supplied separately from the 458Mx mechanical chassis.

Key Features

- Easily attached to a 458Mx chassis and connected to the mains supply for quick installation.
- LCD display screen and a 5-button keypad for monitoring, configuration and manual control.
- Universal mains power supply (85-264 VAC, 45-65 Hz).

Options Module

There is an internal connection for an options module, which is sold separately.
The options module is used to convert 4 channels into either:

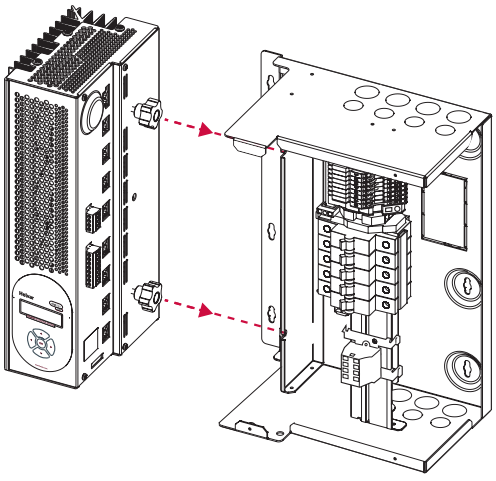
- 1 - 10 V → sink, 50 ballasts drive
- DSI (Digital Signal Interface) → 10 ballasts drive
- PWM (Pulse Width Modulation) → 10 ballasts drive
- DALI broadcast → 10 ballasts drive

Installation Notes

This involves removing the cover from the chassis.
Do NOT connect DALI and S-DIM or DMX at the same time.
Refer to the 458/SW8 Installation Guide and 458Mx Chassis Installation Guide for details.

LCD Display

Installation



Technical Data

Connections

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)
Override:	0.5 mm^2 to 1.5 mm^2 (screened and twisted)
Relay contacts:	High inrush, single pole single throw (SPST), normally open (NO), volt-free
Voltage:	400 VAC
Isolation:	4 kV
Max. load per contact:	16 A resistive/incandescent, 10 A HID (cos y=0.6)

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

Power

Mains supply:	85 VAC to 264 VAC, 45 - 65 Hz
Power consumption:	1.1 W (excluding loads)

Protection

Electrical protection:	6 A MCB and PTC for control board (MCB type C 10 kA). See 458Mx installation guide.
Thermal protection:	Control board – resettable fuse

Conformity and Standards

EMC:	**Emission:** EN 55015 **Immunity:** EN 61547
Safety:	EN 60950
DALI data transfer:	According to DALI standard IEC60929, with Helvar extensions
S-DIM data:	Helvar protocol (RS485, 115 kpbs)
DMX data:	DMX512-A protocol
Environmental:	Complies with WEEE and RoHS directives

Installation

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

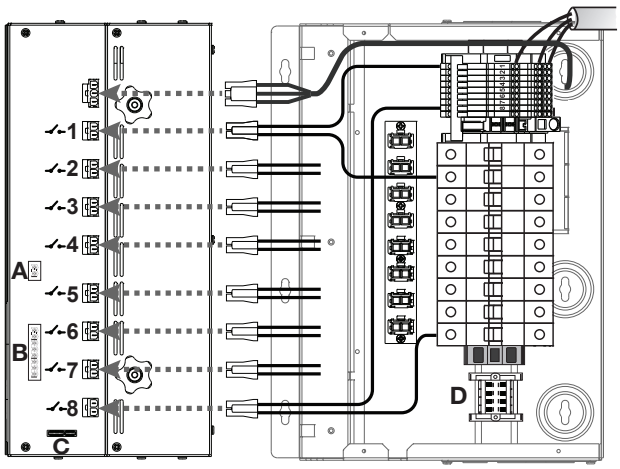
Mechanical Data

Dimensions:	See diagram
Weight:	2.1 kg
Housing; IP rating:	Powder coated steel (black); IP 20
Heatsink:	Anodised aluminium

Operating and Storage Conditions

Ambient Temp:	0ºC to 40ºC
Storage Temp:	-10°C to 70°C
Relative Humidity:	Max 90%, non-condensing

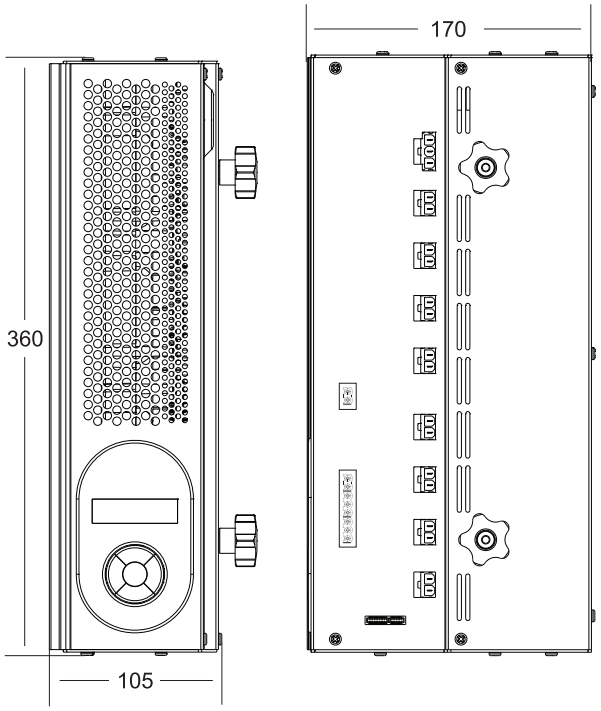
Connections



A: DALI (DA+, DA-)
B: OVR,S-DIM/DMX
C: Options module socket
D: S-DIM/DMX cable loom

Dimensions

Dimensions in mm



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