

# 458/SW8 8-Channel Switching Module

The 458/SW8 8-channel switching module contains 8 relay channels (normally open), capable of switching 6 A 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 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.

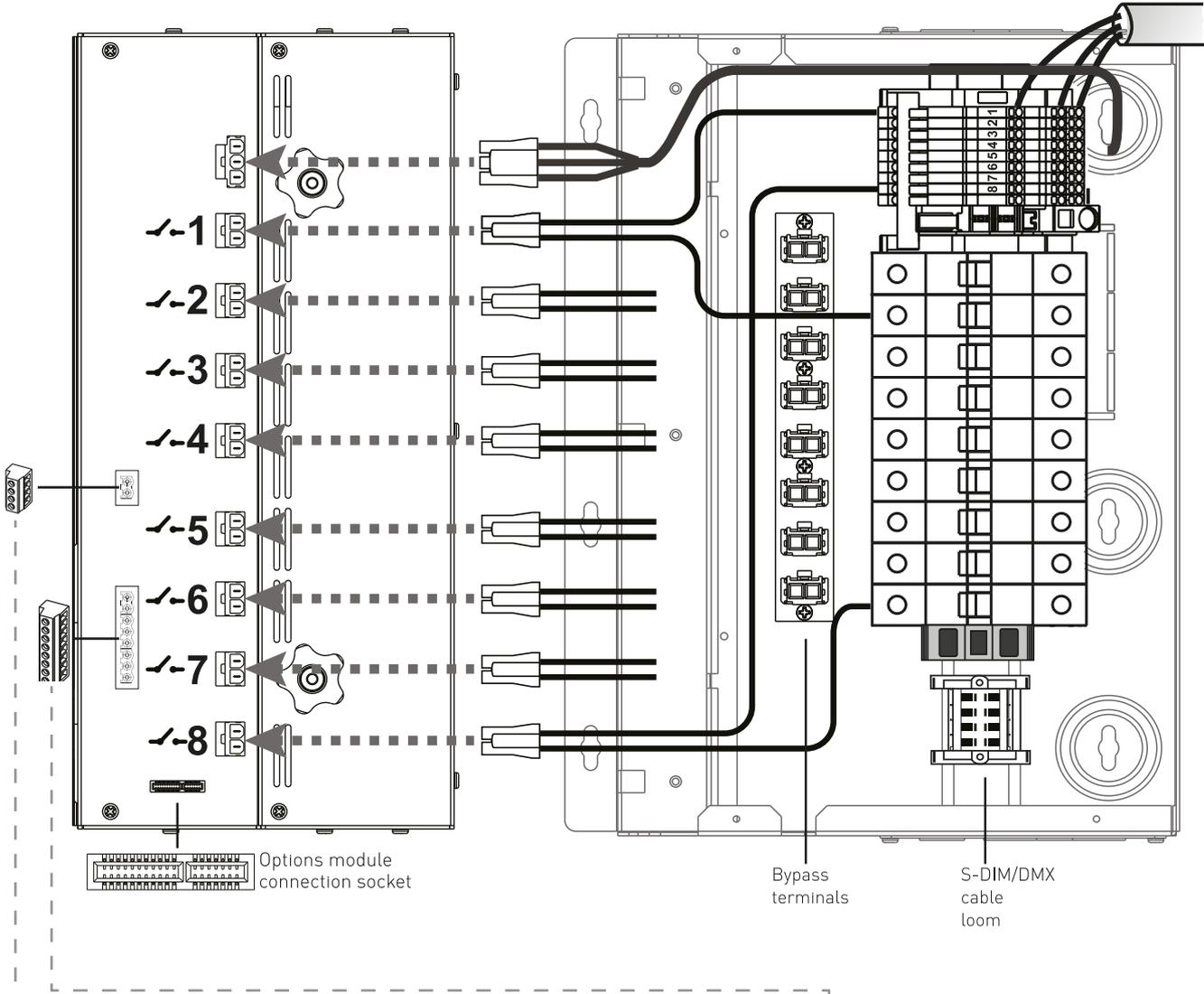
**Note:** The 458/SW8 8-Channel Switching Modules are supplied separately from the 458Mx chassis.



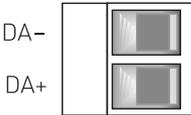
## Key Features

- 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, 50/60 Hz.

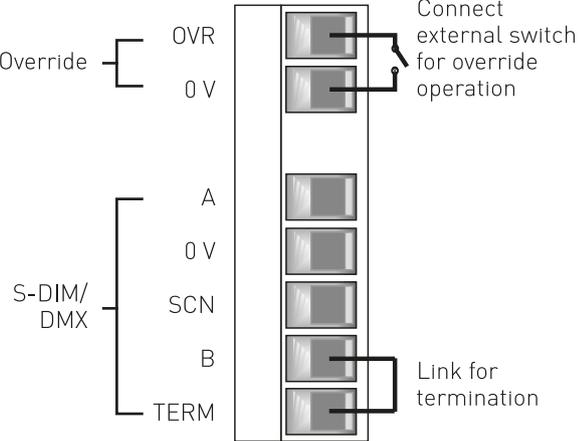
# Connections



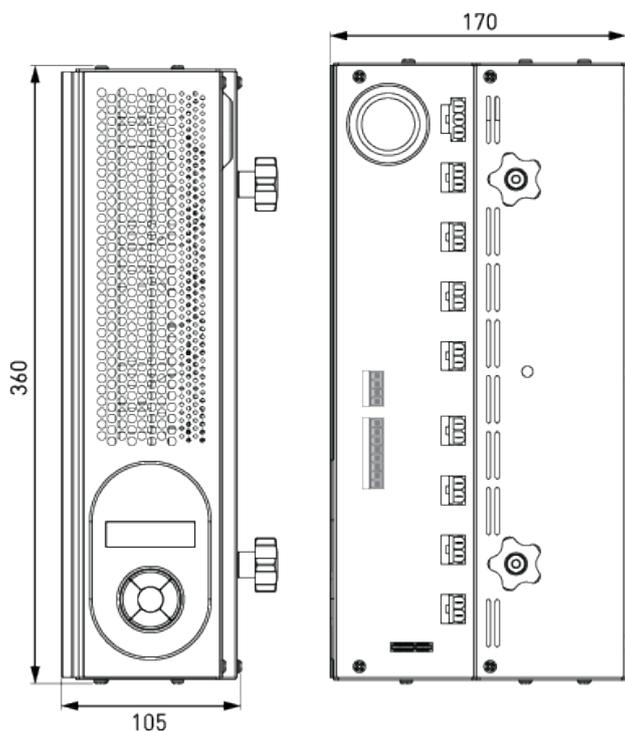
-- DALI connections



Override, S-DIM/DMX connections



## Dimensions (mm)



## Technical Data

### Connections

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

### Electrical data

Mains supply:	100–240 VAC, 50/60 Hz
Power consumption:	1.1 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:	2.1 kg
Mounting:	Attached to 458M1, 458M2 or 458M3 chassis
Material:	Housing: Powder coated steel (black) Heatsink: Anodised aluminium
IP rating:	IP20

## Relay

Relay contacts:	High inrush, single pole, single throw (SPST), normally open (NO), volt-free
Voltage:	400 VAC
Isolation:	4 kV
Max. load per contact:	Chassis MCB limit 6 A per channel.  <b>Note:</b> For ballasts, quantity is limited by MCB: refer to manufacturer's data. External protection must not exceed 6 A type C MCB.

## Protection

Power circuit 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

Conformity:	
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, RoHS and REACH directives.