

8-Channel Universal Dimmer Module (458/UNI8)

Eight-channel transistor dimmer module, for leading or trailing edge dimming.

The 458/UNI8 is compatible with all common load types; inductive, capacitive and resistive.

The unit incorporates a number of novel features that provide 'first-class' performance when dimming modern LED lamps. This includes both mains dimmable retrofit lamps and LED drivers.

The module's 8 channels can be individually selected as leading or trailing edge, and are rated at 6 A each.

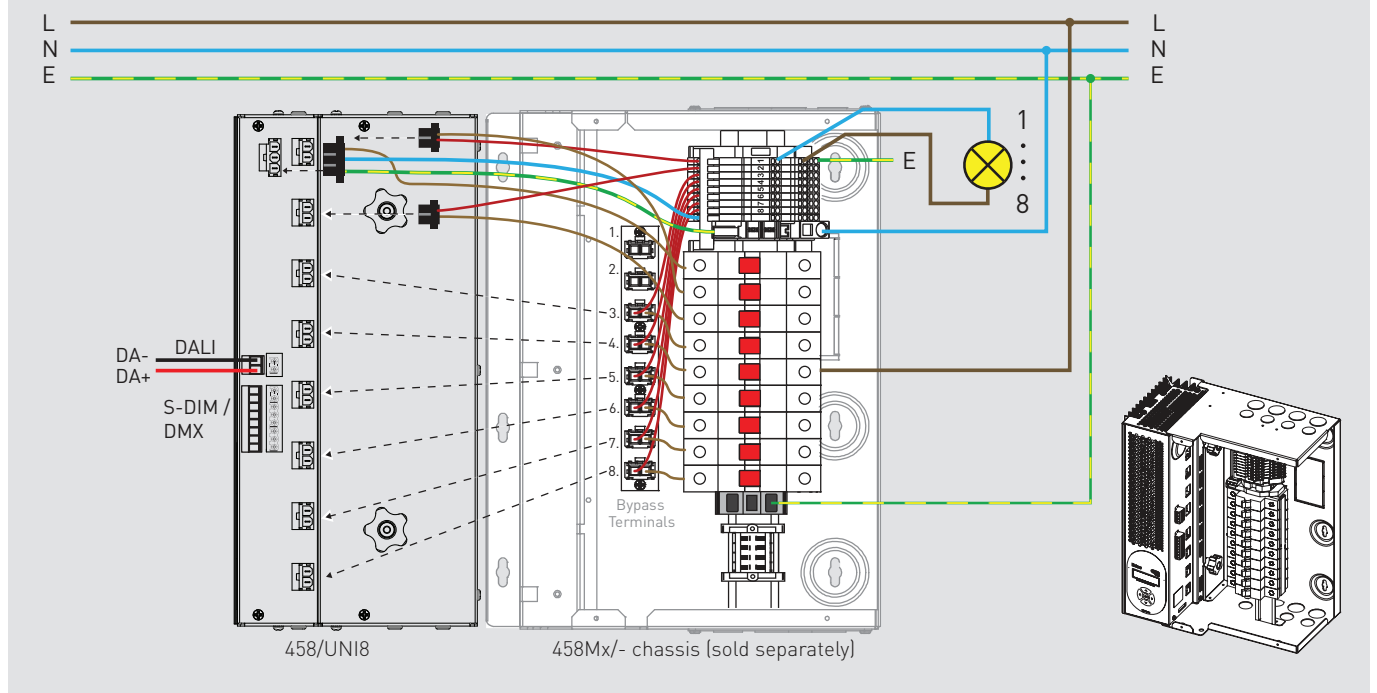
The module has a DALI, S-DIM and DMX interface, for integration into DIGIDIM and Imagine systems.

Key features

- Module plugs into any 458 mechanical chassis
- LCD display screen with navigation keys
- DALI / S-DIM / DMX
- Active bottom load



Connections



Technical Data

Connections

Mains supply:	From 458M chassis
DALI:	Wire size: 0.5 mm ² – 2.5 mm ² Recommended: 1.0 mm ² – 1.5 mm ² Max. length: 300 m @ 1.5 mm ² DALI cables must be mains rated
S-DIM/DMX:	Wire size: 0.5 mm ² – 2.5 mm ² Recommended: 1.0 mm ² – 1.5 mm ² Max. length: 300 m @ 1.5 mm ² DALI cables must be mains rated
Override (OVR):	0.5 mm ² – 1.5 mm ² (screened and twisted)

Power supply

Mains supply voltage:	85 VAC – 264 VAC, 45 Hz – 65 Hz
Power consumption:	6 W
External MCB protection:	Max. 6 A (control circuit). The external power supply must be protected.
Isolation:	4 kV between mains supply; DALI; and S-DIM/DMX/Override connectors.
Standby power:	No Standby mode
Max. total losses:	70 W
DALI consumption:	2 mA
Load	
Load current:	48 A (max.)
Minimum load:	No minimum load
Maximum load:	8 × 6 A
Output regulation:	Automatic compensation for supply voltage and frequency variations

Protection

Load protection:	Refer to 458Mx installation guide
Active bottom load:	Resettable fuse (PTC protection)
Thermal protection:	Control board – resettable fuse, power devices – thermal sensing

Inputs

Control:	DALI; S-DIM or DMX
Override (OVR):	Wired override input
User interface:	Control panel: 5 push buttons and LCD screen for configuration

Mechanical data

Dimensions:	360 mm × 105 mm × 170 mm
Material:	Housing: Powder coated steel (black) Heatsink: Anodised aluminium
Mounting:	Attached to 458M1, 458M2, or 458M3 chassis
Weight:	3.9 kg
IP code:	IP20

Operating conditions

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

Conformity and standards

EMC emission:	EN 55015
EMC immunity:	EN 61547
Safety:	EN 60950-1
Environment:	Complies with WEEE and RoHS directives
DALI data transfer:	EN 62386:2009 edition 1, with Helvar extensions
S-DIM data transfer:	Helvar protocol (RS485, 115 kbps)
DMX data transfer:	DMX512-A protocol
Configuration software	
Designer version:	4.2.18 or higher
Toolbox version:	2.3.3 or higher

Dimensions (mm)

