

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.

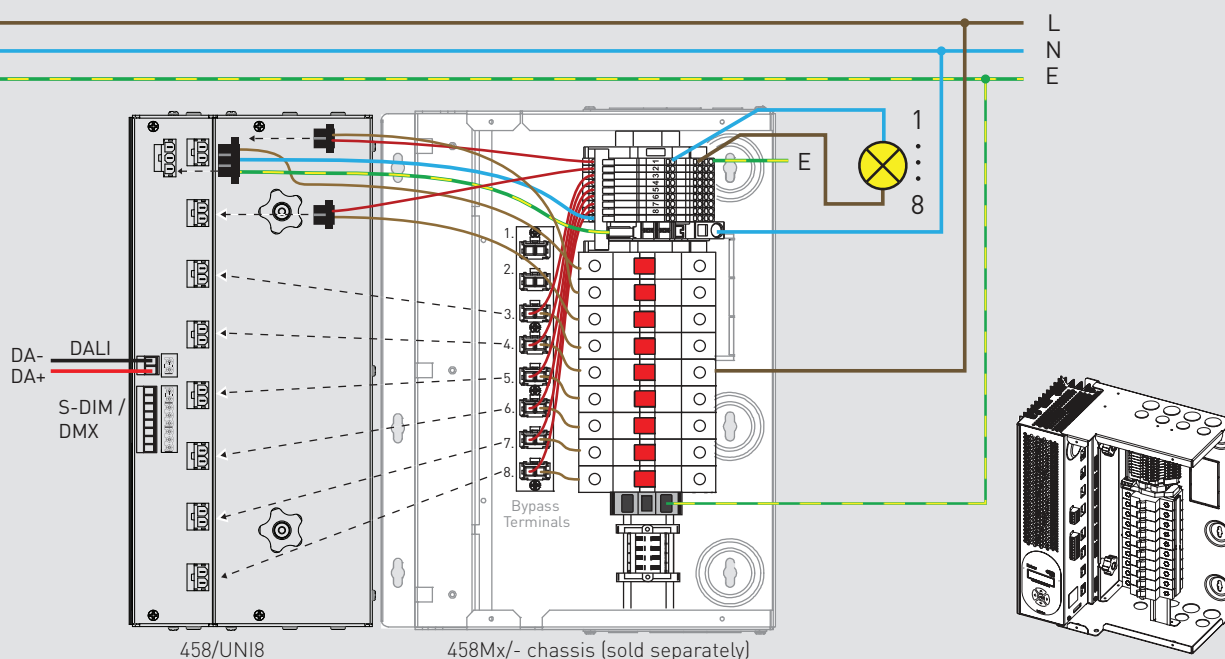
The module has a DALI, S-DIM and DMX interface, for integration into DIGIDIM and Imagine systems.



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:	Solid core: up to 4 mm ² Stranded: 2.5 mm ²
DALI:	Wire size: 0.5 — 2.5 mm ² Recommended: 1.0 — 1.5 mm ² Max. length: 300 m @ 1.5 mm ²
S-DIM/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)
Cable rating:	All cables must be mains rated

Power supply

Mains supply voltage: 85-264 VAC, 45-65 Hz

Power consumption: 2 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: 2 W

DALI consumption: 2 mA

Supply

Supply current: 48 A (max)

Maximum load: 8 x 6 A

Output regulation: Automatic compensation for supply voltage and frequency variations

Protection

For load protection, refer to 458Mx installation guide.

Active bottom load: PTC protection: resettable fuse

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

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: According to DALI standard IEC60929, with Helvar extensions

S-DIM data transfer: Helvar protocol (RS485, 115 kbps)

DMX data transfer: DMX512-A protocol

Configuration software

Configure using Designer version 4.2.18 (or higher), or Toolbox version 2.3.3. (or higher)

Mechanical Data

Material: Housing: Powder coated steel (black)
Heatsink: Anodised aluminium

IP rating: IP 20 (For installation in a restricted access location only)

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

Weight: 3.9 kg

Module dimensions: 360 x 105 x 170 mm

