

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.

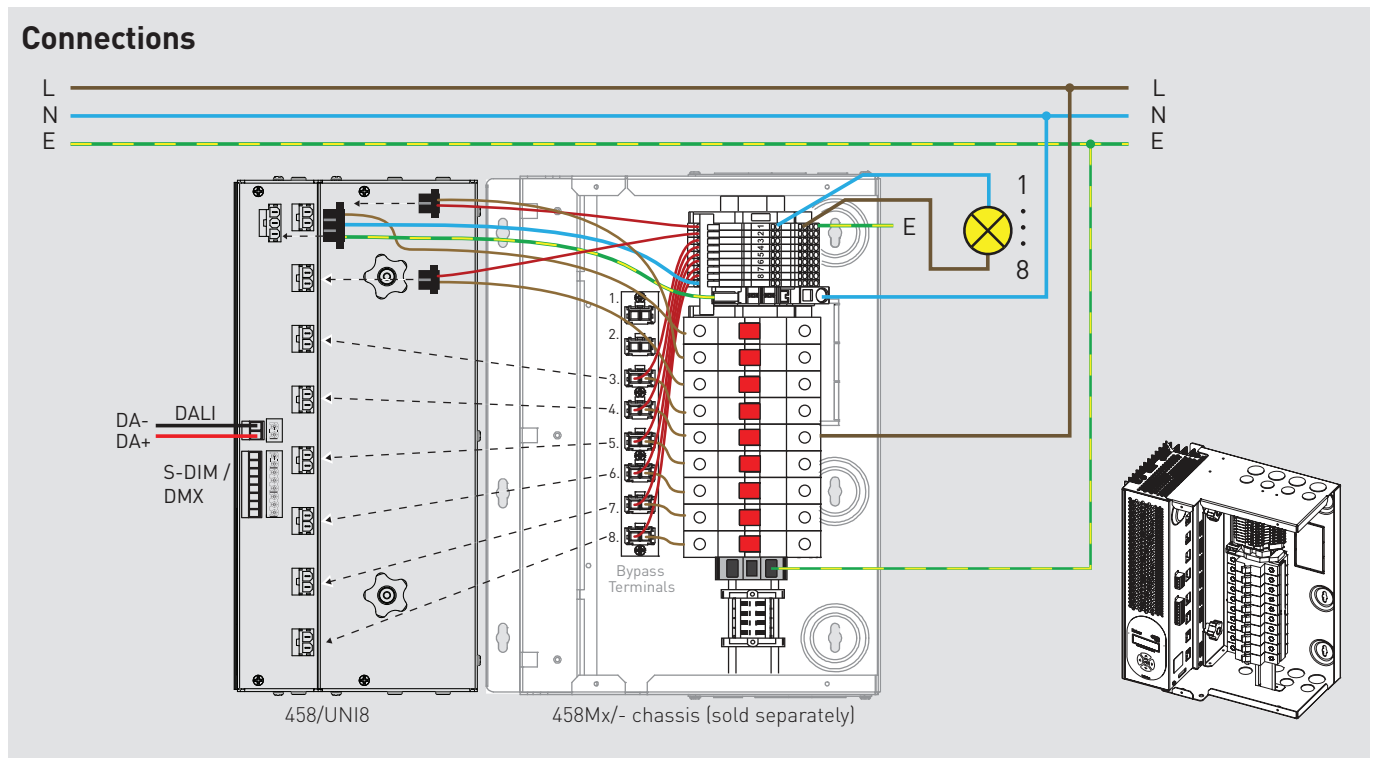
The module has a DALI, S-DIM and DMX interface, for integration into DIGIDIM and Imagine systems.



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

