

Mechanical Data

Weight: 4.2 kg

Material: Sheet steel

Surface Treatment: RAL9016 powdercoat

Door: Lockable steel hinged door

Mains Cable Access

6 x 25.5mm/M25 knockout &

1 x 38.3mm/PGx knockout

Control Cable Access

1 x 25.5mm/M25 knockout

Terminal Sizes

Neutral: 2 x 25mm² & 13 x 16mm²

Earth: 2 x 25mm² & 13 x 16mm²

Climate Range

Temperature: +2°C to +50°C

Humidity: +5 to 95% non condensing

Ratings

Ingress Protection: IP20

Impact Resistance: IK07

In accordance with: IEC 62208:2011

Control Data

Control:

Via iLight network connection or DALI

Recommended Network Cable:

iCANnet™ Network Cable

Programming: Via Device Editor software

Electrical Data

Supply: 120 – 277V AC +/-10%, 50/60 Hz

Maximum Load: Maximum 4A single phase

Load Protection: 1 x 6A MCB

Integral iLight Network Power Supply: 15V 500mA

Terminal Sizes:

Neutral: 2 x 25mm² & 13 x 16mm²

Earth: 2 x 25mm² & 13 x 16mm²

Mains terminals: 2 x 2.5mm²

Channel terminals: 4 x 2.5mm² per channel

iCANnet™ input/output screw terminals: 5 x 1mm²

DALI input screw terminals: 2 x 2.5mm²

Alarm input screw terminals: 3 x 2.5mm²

Installation: Installation must be carried out by a suitably qualified electrician.

Load Data

Max Output channel current: 4 x 1A RMS or 2 x 2A RMS when channel pairing is used. No minimum load

Channel Pairing: (1+2) and/or (3+4) only

Note: There are no industry standards for mains dimmable LED designs. Individual lamp performance and dimming ranges vary considerably between manufacturers, models and even over time. Always refer to the lamp manufacturer's recommended limits for leading/trailing edge operation, de-rating of load and maximum number of lamps per circuit. This is often limited to less than 10 lamps per circuit regardless of load. In all circumstances it shall be the responsibility of the installer to check lamp compatibility in advance or arrange proving tests/quantities as necessary.

Installation Guide

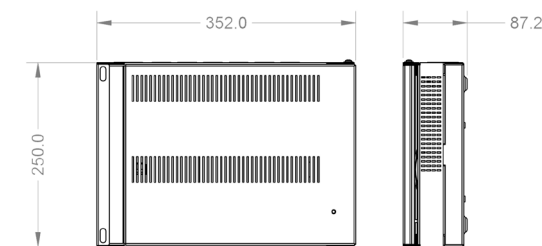


EN1-SCMA0401

4 Channel x 1A Adaptive Dimmer Control Enclosure



Dimensions



Overview

Designed and tested to meet the unique demands of mains dimmable LED the EN1-SCMA0401 is the ideal solution for your lighting control needs. With our Patent Pending* "iLight Adapt" trailing edge technology, EN1-SCMA0401 will adapt to the particular characteristics of each connected LED load to deliver the best possible dimming performance and compatibility. Scalable dimming curves optimise the effective dimmable range particularly enhancing control and sensitivity at low lighting levels.

In addition to its "iLight Adapt" trailing edge mode, EN1-SCMA0401 also offers leading edge and switched modes, selectable by channel, to extend the capabilities beyond just LED loads to other lighting types such as incandescent and halogen lamps for dimming or switching (Note: EN1-SCMA0401 is not for use with inductive loads).

The compact design of EN1-SCMA0401 delivers system flexibility as well as reducing installation costs and space used. Being part of the iLight system, it can be seamlessly integrated into flexible lighting schemes with any type of lighting load for commercial, architectural and residential applications. Integration with Building Management Systems allows for centralised control and management of the lighting system.

The knockouts to the top of the enclosure have been designed to line up with any of the original iLight source controllers making replacement quick and easy in a retrofit environment.

A dedicated knockout is provided for iCANnet connection to the EN1-SCMA0401 and several accessories are available to aid the installer in connection of the iCANnet network.

*19-IGL-1211 PROV (13682 227745) Draft - Provisional patent application - Adaptive Lighting Dimmer.

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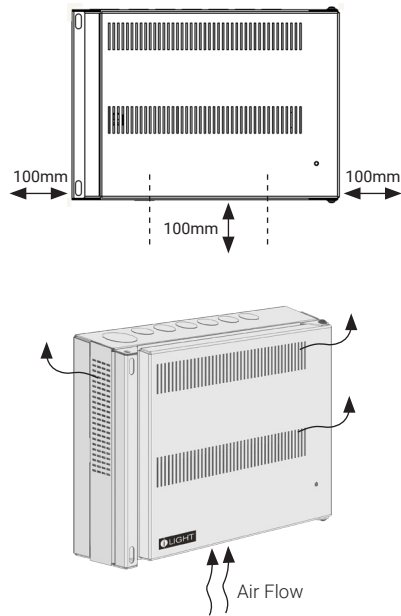
Location

Control cabinets must be located in a dry, well ventilated location where the ambient temperature is within the range of +2°C to 50°C (humidity of +5 to +95% non-condensing).

The EN Series are designed to be mounted vertically on a suitable surface, capable of supporting the weight of the populated assembly. It is important to orientate the unit correctly to allow for effective airflow for ventilation.

It is recommended to leave 100mm distance between the control cabinet and walls or other equipment underneath and either side of the unit.

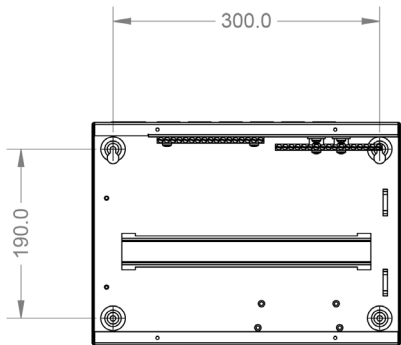
The EN series accommodate most common forms of cable management. Care should be taken not to obscure any ventilation grill on the enclosure.



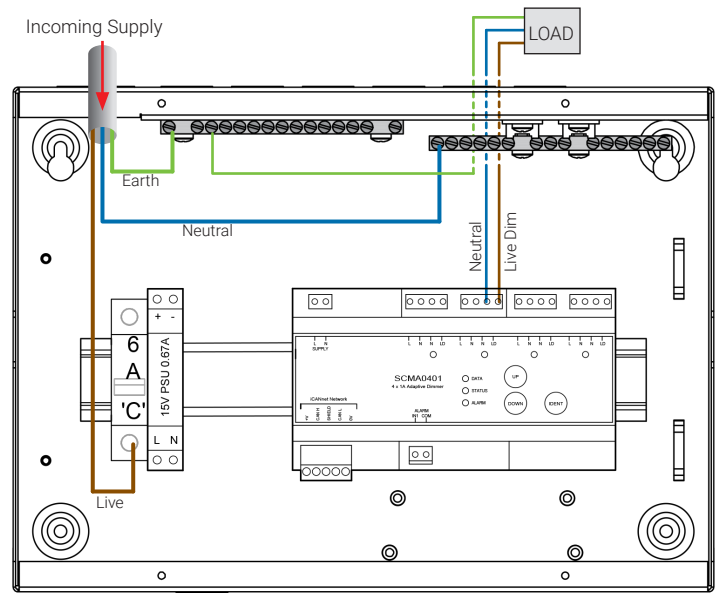
Mounting

Before mounting the cabinet to the wall, the cover will need to be removed. There are 4 screws behind the hinged door which, when unscrewed, allow the cover assembly to be removed.

In the rear section of each cabinet, there are 4 fixings holes, each accommodating up to 6mm diameter fixings. The top holes are 'key slot' design enabling the cabinets to first be hung and then secured onto place using the 2 lower fixings.



Supply and Control Wiring



Accessories

ENACC-LND-INT - iCANnet Landing Card



ENACC-PRG-INT - iCANnet Programming Port and RJ12 lead



The optional landing card provides connection of the iCANnet Network to the internal panel network. M4 Threaded posts are provided as standard to support the installation of this optional card.

The card can then be connected to the optional RJ12 programming port via an RJ12 lead to provide external connection to the network for programming and maintenance.

