EN3-SCMA1201

12 Channel x 1A Adaptive Dimmer - Controls Enclosure

Key Features

- Compact 12 x 1A mains dimmer optimised for LED loads
- Channel pairing for 2A loads
- Selectable dimming modes – "iLight Adapt" trailing edge, leading edge and switched
- Scalable dimming curve to optimise the usable dimming range of a load
- No minimum load
- Quiet dimming operation
- Configurable Alarm Input (volt free)
- DALI Input (12 individual DALI addresses)
- Short Circuit protection per channel
- Push buttons for local testing of channel outputs
- All metal construction
- Lockable hinged door
- Front panel and door ventilation
- CE & UKCA compliant to all relevant standards
- Designed and manufactured to ISO9001 standard

Overview

Designed and tested to meet the unique demands of mains dimmable LED the EN3-SCMA1201 is the ideal solution for your lighting control needs. Our "iLight Adapt" trailing edge technology 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, EN3-SCMA1201 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: EN3-SCMA1201 is not for use with inductive loads).

The compact design of EN3-SCMA1201 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 EN3-SCMA1201 and several accessories are available to aid the installer in connection of the iCANnet network.

Mechanical Data

Weight: 9.8 kg

Mains Cable Access:
6 x 25.5mm/M25 knockout & 1 x 38.3mm/PGx knockout

Control Cable Access:
1 x 25.5mm/M25 knockout

Climate Range:
Temperature: +2ºC to +50ºC
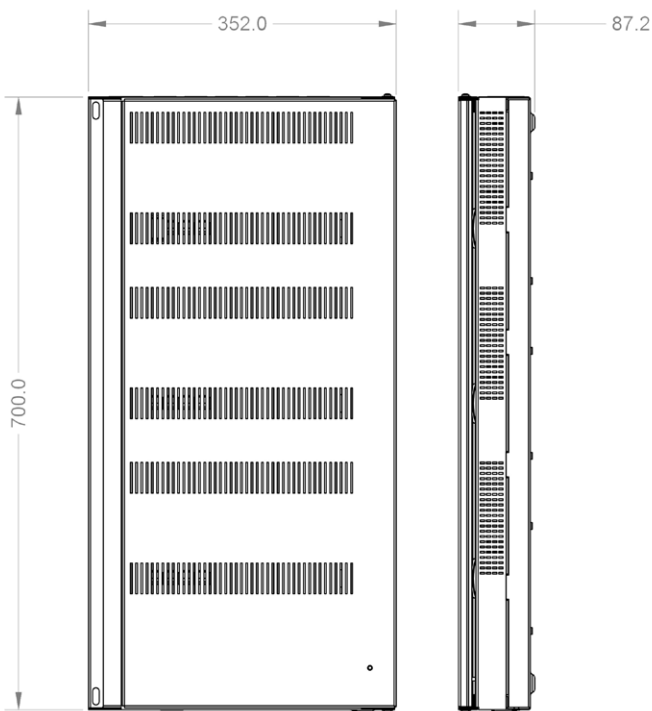Humidity: +5 to 95% non condensing

Accessories

The optional landing card provides connection of the iCANnet™ Network to the internal panel network and a point of disconnection. M4 Threaded posts are provided as standard to support the installation of this optional card.
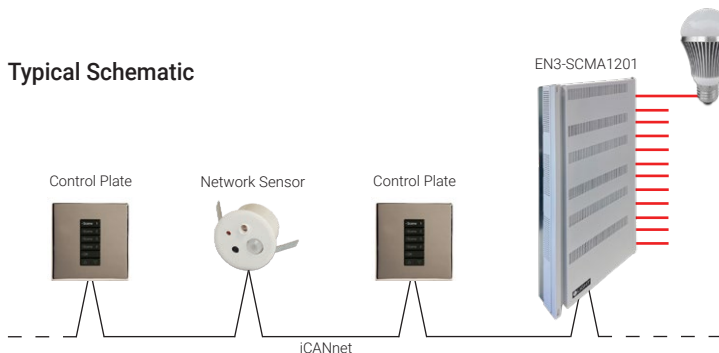
ENACC-LND-INT - iLight DIN Rail Enclosure - iCANnet Landing Card

ENACC-PRG-INT - iLight DIN Rail Enclosure - iCANnet Programming Port

Dimensions

Typical Schematic

Electrical Data

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

Maximum Load: Maximum 12A single phase

Load Protection: 4 x 6A MCB

Integral iLight Network Power Supply: 15V 600mA

Terminal Sizes:
Neutral: 2 x 25mm^2 & 13 x 16mm^2
Earth: 2 x 25mm^2 & 13 x 16mm^2
Mains terminals: 2 x 2.5mm^2
Channel terminals: 12 x 2.5mm^2 per channel
iCANnet™ input/output screw terminals: 5 x 1mm^2
DALI input screw terminals: 6 x 2.5mm^2
Alarm input screw terminals: 9 x 2.5mm^2

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

Load Data

Max Output channel current: 12 x 1A RMS or 6 x 2A RMS when channel pairing is used. No minimum load

Channel Pairing: (1+2) and/or (3+4) only per module
(3 Modules per enclosure)

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.
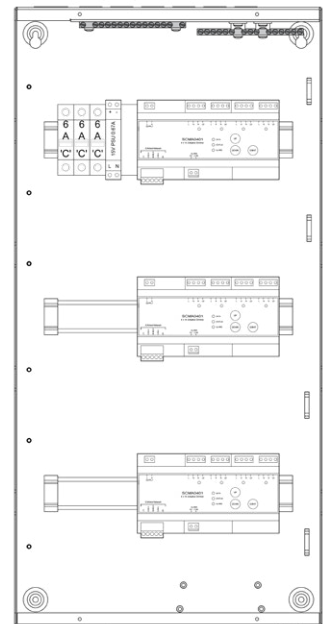
Control Data

Control: Via iLight network connection or DALI
Recommended Network Cable: iCANnet™ Network Cable
Programming: Via Device Editor software

Internal View