

# SCMA0401

## 4 Channel x 1A Adaptive Dimmer – DINrail Mount

### Key Features

- Compact 4 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 (4 individual DALI addresses)
- Short Circuit protection per channel
- Push buttons for local testing of channel outputs
- DINrail mount with key hole slots for wall mounting
- 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 SCMA0401 is the ideal solution for your lighting control needs. With our Patent Pending\* “iLight Adapt” trailing edge technology the 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 the 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: SCMA0401 is not for use with inductive loads).

With iLight network connectivity the SCMA0401 may be linked with a virtually limitless number of other iLight products to build up any size system. Alternatively, it can provide phase cut dimming capabilities to a DALI system using its DALI input.

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

## Mechanical Data

Dimensions: 159mm (w) x 89mm (h) x 60mm (d)

Housing: DIN rail case; 9 module width

Mounting: DIN rail mount with key hole slots for wall mounting

Weight: 0.2kg

IP rating: IP20

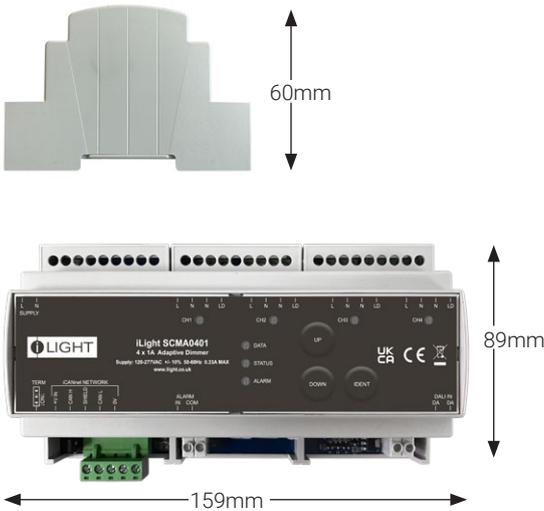
## Operating Conditions

Operating temperature: +2°C to 50°C

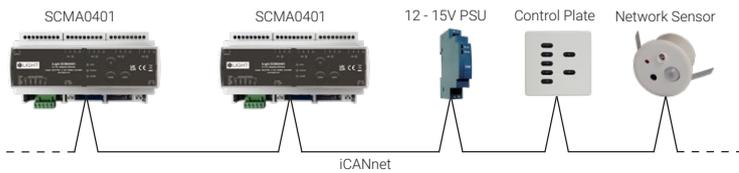
Relative humidity: 5% to 95% non-condensing

Max Storage Temperature: +60°C

## Dimensions



## Typical Schematic



## Electrical Data

Mains supply: 100 - 277V AC, 50/60 Hz

Unit rating: Maximum 4A single phase

Terminal Sizes (Capacity per terminal):

Supply/Load screw terminals: 2x1mm<sup>2</sup> or 1x 2.5mm<sup>2</sup>

Input screw terminals: 0.2mm<sup>2</sup> to 1mm<sup>2</sup>

iCANnet™ input/output screw terminals: 5 x 1mm<sup>2</sup>

Terminal Torque Setting: 0.5Nm

Mains supply protection: Provided by installer (6A Type C MCB recommended)

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

Note: Pairing combinations allowed (1+2) and/or (3+4) only

CAN power consumption: 85mA

Note: CAN power is supplied separately via pre-powered iLight network or external 15V DC PSU (PSU-15-DIN10WC / 0021-000001-00)

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.

DALI Endpoint: When used as a DALI endpoint, SCMA0401 will consume 2mA from the DALI line.

DALI address quantity: 4

## Contact Us

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