

Installation Guide

iLight

Usk House, Lakeside
Llantarnam Park,
Cwmbran,
NP44 3HD, UK

t: +44 (0)1923 495495
e: enquiries@iLight.co.uk
www.iLight.co.uk

EU Authorised Representative
Cooper Lighting Netherlands B.V.
High Tech Campus
HTC 48
Eindhoven
5656 AE

E&OE. iLight reserve the right to make changes to the equipment without prior notice.
© Signify Holding

Doc No: 9850-001031-00

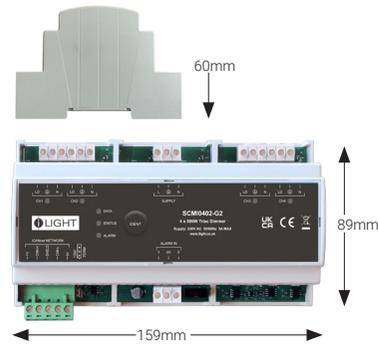


SCMI0402-G2

4 channel - 2A Leading edge phase cut dimmer



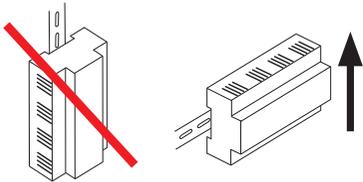
Dimensions



Typical Schematic



Mounting & Installation

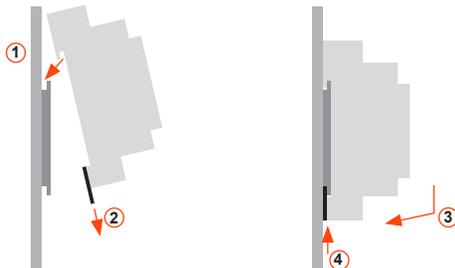


SCMI0402-G2 must be mounted in a suitable enclosure to provide regulatory protection from electric shock hazard as well as protecting the iCANnet data network from tampering that could lead to reduced network security.

Ensure selected enclosure provides adequate cooling ventilation.

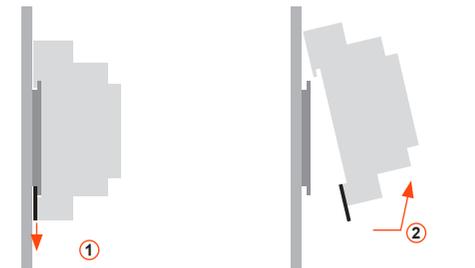
Fixing to DIN rail

1. Fix top clips over DIN rail.
2. Pull down bottom clip using screwdriver.
3. Close module towards DIN rail.
4. Push up bottom clip to fix securely to DIN rail.



Removing from DIN rail

1. Pull down bottom clip with screwdriver.
2. Lift module away from DIN rail.



Technical Data

Electrical & Mechanical

Supply: 230 volts +/- 10%, 50/60 Hz 5A Max
Maximum Device Load: 5Amp @ 50°C
Maximum channel current: 2A - *See channel loading table on page 2 for more information*
Channel 1 & 2 (Pair of channels): 2.5A MAX
Channel 3 & 4 (Pair of channels): 2.5A MAX
Load Protection: Provided by installer
Control Supply: 75mA from iCANnet (Device does not supply current to iCANnet)
Terminal Sizes (Capacity per terminal)
Supply/Output screw terminals: 2x1mm² or 1x 2.5mm² or 1x 4mm²
Input screw terminals: 0.2mm² to 1mm²
Terminal Torque Setting: 0.5Nm
iCANnet™ input/output screw terminals: 5 x 1mm²
Input cable length: 30m MAX
Installation: Installation must be carried out by a suitably qualified electrician

Load Data

Load types: Providing control of continuous inductive lighting loads. Suitable for resistive, inductive, LED and low voltage electronic transformer loads (leading edge dimmable). Please consult with the iLight help desk for additional guidance.

Control Data

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

Mechanical Data

Weight: 0.4 kg
Operating temperature: +2°C to +50°C
Relative humidity: 5% - 95% max, non-condensing
IP rating: IP2X

SCMI0402-G2

4 channel - 2A Leading edge phase cut dimmer

Ident Switch and LEDs

Normal Running Mode

Green STATUS LED flashes – device OK
Red DATA LED flashes when messages sent on network.

Device Identification

Press and release IDENT button.
Sends a message to identify the device on the network (Red LED flashes).

Entering Override Mode

Press and hold the IDENT button for at least 10 seconds.
The unit will enter override mode and all outputs dim to 100%.
When in Override mode the green and red LEDs flash simultaneously.

Override Mode

The outputs are controlled as follows:

- 1st Short press -> all outputs dim to 0%
 - 2nd Short press -> channel 1 exclusively to 100%
 - 3rd Short press -> channel 2 exclusively to 100%
 - 4th Short press -> channel 3 exclusively to 100%
 - 5th Short press -> channel 4 exclusively to 100%
 - 6th Short press -> all outputs dim to 100%
- These actions repeat sequentially*

Exiting Override Mode

To exit (at any point) press and hold IDENT button for at least 10 seconds or cycle device power. The green LED flashes to indicate normal running mode.

Fault Indication

No mains = All 4 channel LEDs double flash (Long, short flash).
Over Temperature = Channel LED Pairs (Single flash) plus, Red ALARM / Green STATUS LEDs (Rapid flash).
Channel On/Off = Yellow Channel LEDs Solid On/Off to indicate channel state if no other faults.

iLight Network Connections

Function	iCANnet Cable Colours
0V	Black
CAN L	Blue
Shield	Silver
CAN H	White
+VDC	Red

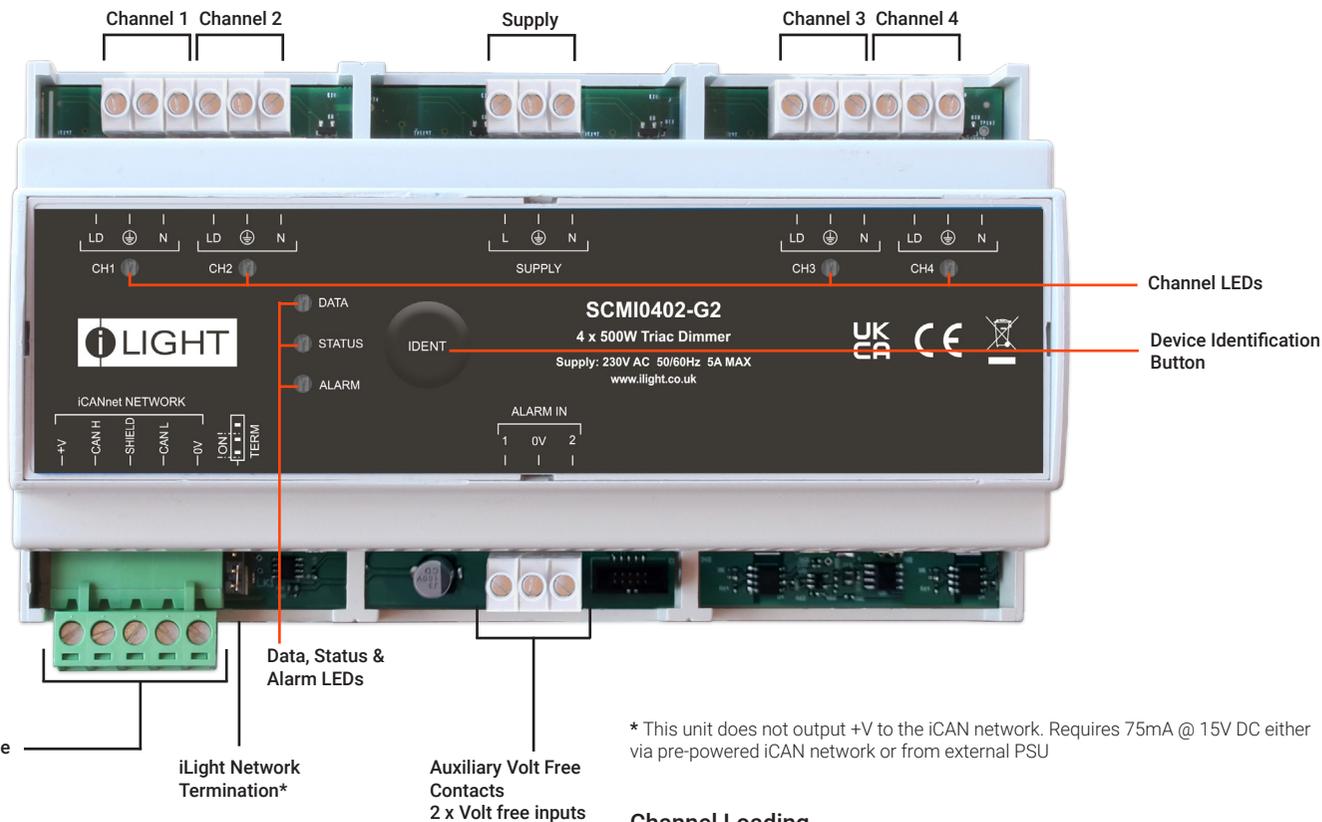
Maximum segment distance: 500m (1640 ft)
Devices per segment: 100 (without bridge or repeater)
Consult iLight for information on alternative cable types.

Network Power Requirements

Nominal operating voltage: 15V (12-18V)
Nominal operating current: 75mA

Typical Connection Diagram

Incoming Supply: 230 volts +/- 10%, 50/60 Hz
Mains supply protection: Provided by installer



* This unit does not output +V to the iCAN network. Requires 75mA @ 15V DC either via pre-powered iCAN network or from external PSU

Connection to the iLight Network

iLight Network Termination*

Auxiliary Volt Free Contacts
2 x Volt free inputs

iCANnet termination

SCMI0402-G2 is supplied with termination disabled as standard. If it is connected as an end device on the iLight network, the jumper will need to be moved to enable termination.

To enable termination, move the jumper outwards from the inner two pins to the outer two pins.



Termination ON Termination OFF

Channel Loading

Total Load (Device): 5A MAX			
Channel 1 & 2 (Combined total load): 2.5A MAX		Channel 3 & 4 (Combined total load): 2.5A MAX	
Channel 1: 2A MAX	Channel 2: 2A MAX	Channel 3: 2A MAX	Channel 4: 2A MAX
Acceptable Loading Arrangement Examples			
Channel 1: 1A	Channel 2: 1.5A	Channel 3: 2A	Channel 4: 0.5A
Channel 1: 2A	Channel 2: 0.5A	Channel 3: 2A	Channel 4: 0.5A
Unacceptable Loading Arrangement Examples			
Channel 1: 2A	Channel 2: 2A	Channel 3: 0.5A	Channel 4: 0.5A
Channel 1: 1A	Channel 2: 1A	Channel 3: 2A	Channel 4: 1A