

# Installation Guide

## SCMC0210

2 Channel 10 Amp Shading Controller



## iLight

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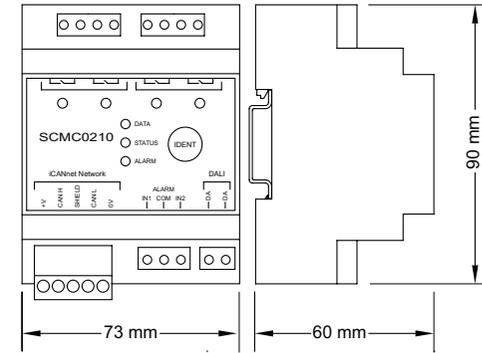
**EU Authorised Representative**  
Cooper Lighting Netherlands B.V.  
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HTC 48  
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5656 AE

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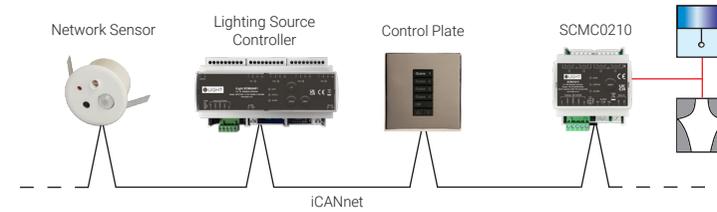
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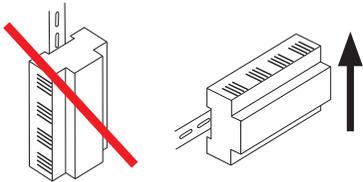
## Dimensions



## Typical Schematic



## Mounting & Installation

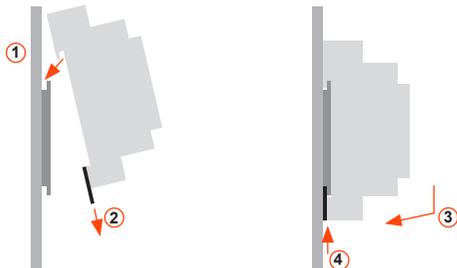


SCMC0210 must be mounted in a suitable enclosure to provide regulatory protection from electric shock hazard as well as protecting the iCANnet data network from tampering that could lead to reduced network security.

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

Maximum Load: 20 Amp @ 50°C

Maximum Channel Current: 10 Amp

Load Protection: Provided by installer.

Control Supply: 90mA quiescent current. (Recommended: 200mA 15V DC Supply)

Terminal Sizes: Channel screw terminals: 8 x 2.5mm<sup>2</sup>

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

DALI input screw terminals: 2 x 1.5mm<sup>2</sup>

Alarm input screw terminals: 3 x 2.5mm<sup>2</sup>

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

**Load Data:** 2 x 10A relay pairs, 3 wire shade control - 120 – 250V AC +/-10%, 50/60 Hz  
3 wire shade control - Volt free (No minimum load)

DC switching - Max 24V DC - 10A

**Control:** Via iLight network connection or a compatible DALI controller  
(0% = RLY1 & 2 = OFF, 1-50% = RLY2 ON, 51-100% = RLY1 ON).

**Recommended Network Cable:** iCANnet™ Network Cable

**Programming:** Via Device Editor software.

**Weight:** 0.25kg

**Operating temperature:** +2°C to +50°C

**Max storage temperature:** +60°C

**Humidity:** +5 to 95% non-condensing

**Environmental protection:** IP20

# SCMC0210

## 2 Channel 10 Amp Shading Controller

### Device LEDs and Buttons

#### Status LED

Green LED flashes – device OK  
Green LED flashes rapidly – DALI control

#### Data LED

Red LED flashes when messages sent on network

#### Alarm LED

Red LED solid on for local initiated alarm  
Red LED flashes for network initiated alarm

#### Device Identification

Press and release switch.  
Sending a message to identify the device on the network (red Data LED flashes)

### iCAN Network Connections

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

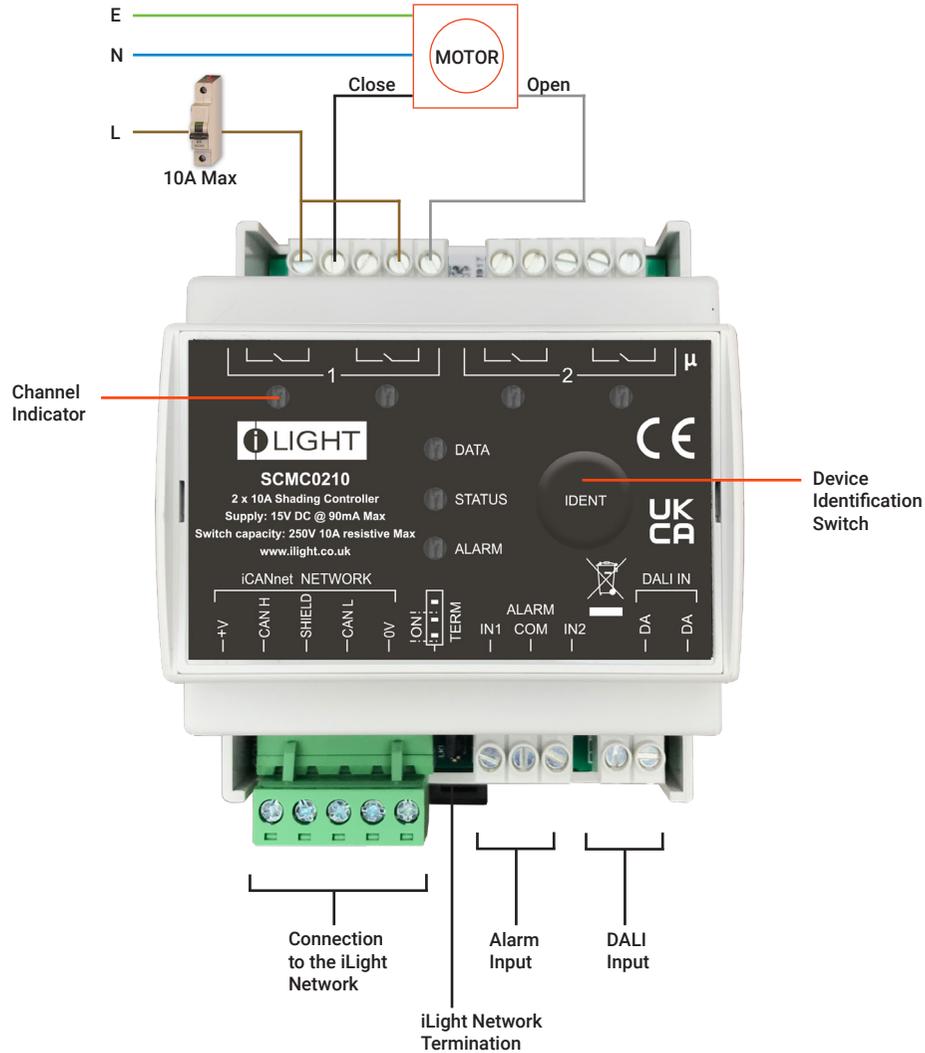
Maximum segment distance: 500m (1640 ft)  
Devices per segment: 100 (without bridge or repeater)  
Consult iLight for information on alternative cable types.

**IMPORTANT NOTE:** Connecting a mains potential cable to the iCAN Network terminals is likely to damage the unit and other devices connected, and invalidate warranty.

#### Network Power Requirements

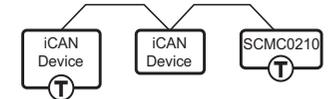
Nominal operating voltage: 15V (12-18V)  
Nominal operating current: 90mA

### Typical Connection Diagram



### Network termination

The iCAN network follows a daisy chain topology that requires termination on the devices located at either end of the network.



The SCMC0210 unit is supplied with termination disabled as standard. If it is connected as an end device in the iCAN network, you need to move the jumper to enable termination.

To enable SCMC0210 termination, move the jumper outwards from the inner two pins to the outer two pins:

