

# Installation Guide

## iLight

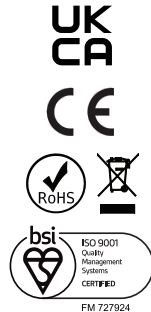
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Doc No: 9850-000910-00

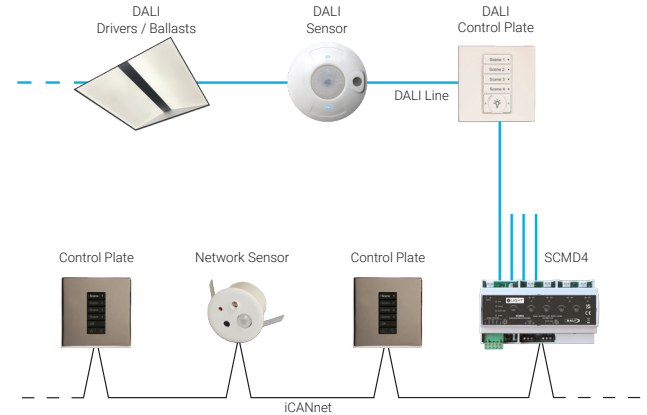


## SCMD4

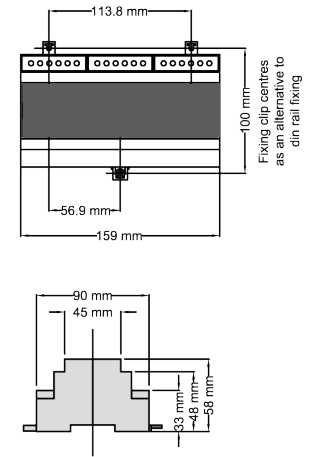
4 Universe Addressable DALI-2  
Controller



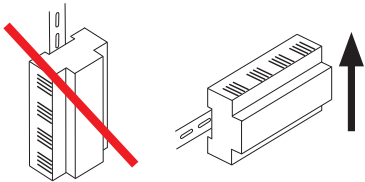
## Typical Schematic



## Dimensions



## Mounting & Installation

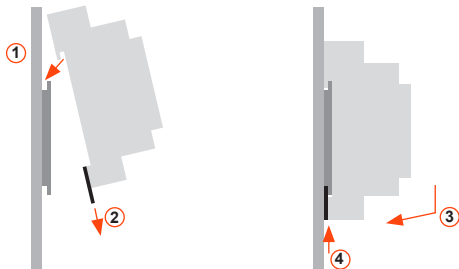


SCMD4 must be mounted in a suitable enclosure to provide regulatory protection from electric shock hazard as well as protecting the iCANnet data network from tampering that could lead to reduced network security.

Ensure selected enclosure provides adequate cooling ventilation.

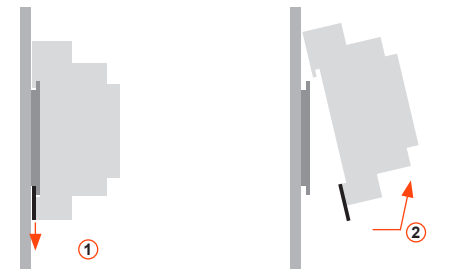
### Fixing to DIN rail

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 Data

Supply: 120 - 277VAC +/- 10%, 50/60 Hz, 0.2A Max  
Terminals max. wire size: 2.5mm<sup>2</sup>

Switch inputs: 2, configurable as break or make, max wire size 2.5mm<sup>2</sup>

iCANnet™ inputs/output: Screw terminals

iCANnet™ output current: 300mA Max @ nominal 15V

DALI output screw terminals: Max wire size 2.5mm<sup>2</sup>

DALI signal: Nominal 16V, max current 250mA supplies to each universe.

Guaranteed minimum current: 240mA.

Automatic shut-down and restart after short-circuit (maximum 1 per bus) according to IEC 62386-101

DMX signal: Addressable in Device Editor, DMX512-A

Terminals max wire size: 1 x 2.5mm<sup>2</sup> or 2 x 1.5mm<sup>2</sup> per circuit

Protection: Provided by installer

### Mechanical Data

Dimensions: 159mm (w) x 89mm (h) x 60mm (d) (6.26" x 3.5" x 2.36")

Housing: DIN rail case; 9 module width

Weight: 0.35kg (0.77lb)

IP rating: IP20

### Operating Conditions

Operating temperature: +2°C to 50°C

Relative humidity: 5% to 95% non-condensing

Max Storage Temperature: +60°C

# SCMD4

## 4 Universe Addressable DALI-2 Controller

### Device LEDs and Buttons

#### Status LED

Green LED flashes – device OK

#### 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

#### RS485 / DMX LED

Green LED flashes when DMX or RS485 messages are sent or received

#### Device Identification

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

#### DALI LEDs

Yellow LED flashes when messages sent on DALI bus  
Yellow LED solid on - short circuit on DALI bus

#### DALI Universe Test Buttons

10 second press to enter Test mode  
Sequential presses Broadcast all on all off  
10 second press to exit Test mode.

### iCAN Network Connections

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

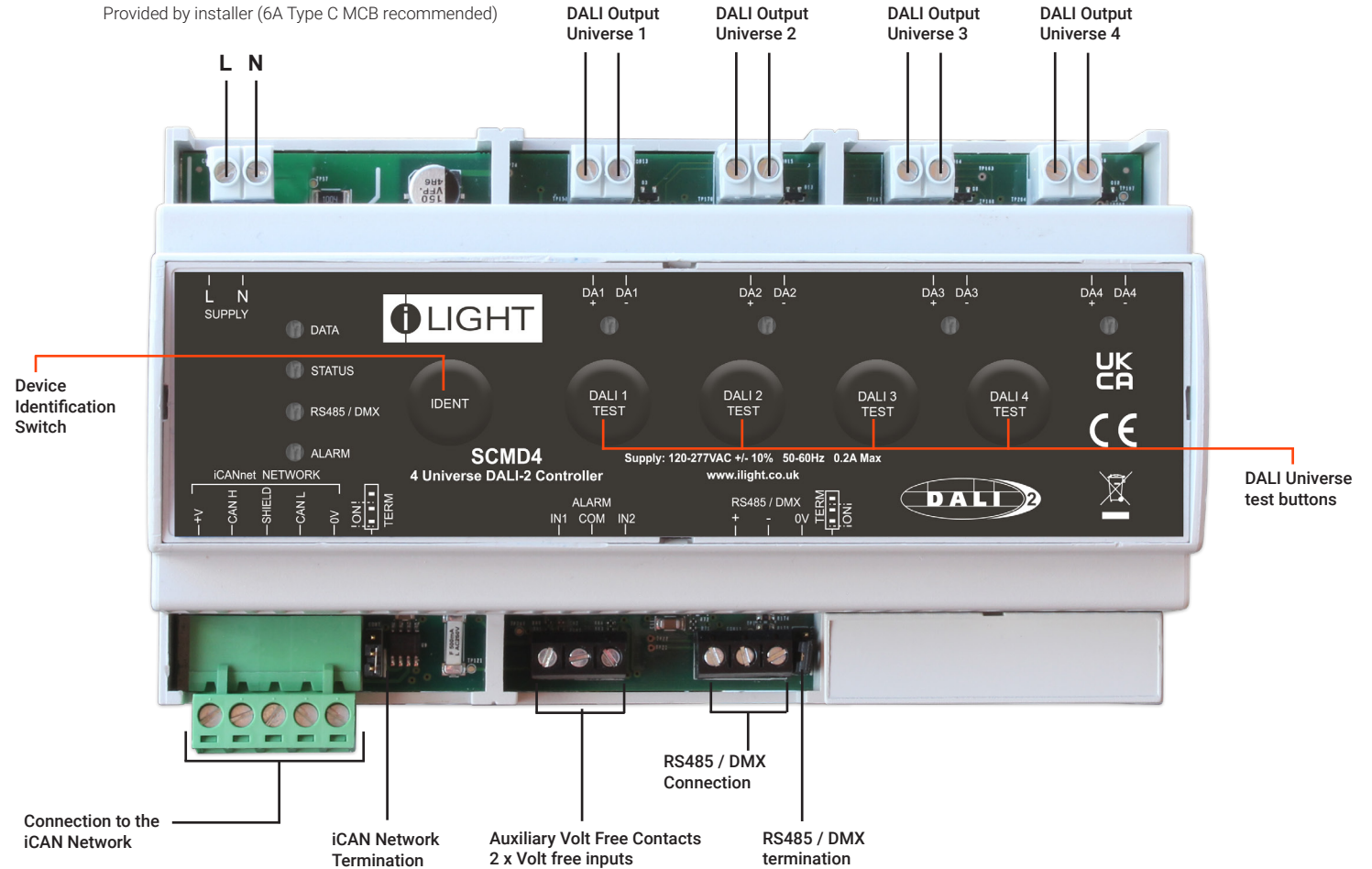
Maximum segment distance: 500m (1640 ft)  
Devices per segment: 100 (without bridge or repeater)  
Consult iLight for information on alternative cable types.

**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.

### Typical Connection Diagram

**Incoming Supply**  
120 - 277VAC

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



Device Identification Switch

DALI Universe test buttons

Connection to the iCAN Network

iCAN Network Termination

Auxiliary Volt Free Contacts  
2 x Volt free inputs

RS485 / DMX Connection  
RS485 / DMX termination

### iCANnet Network termination

SCMD4 is supplied with termination disabled as standard. If it is connected as an end device on the iCAN 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.

