

Installation Guide

SCD-96-D

96 Channel DMX Source Controller



Cooper Lighting Solutions

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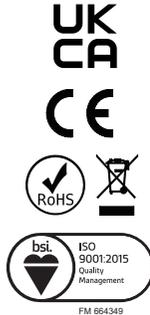
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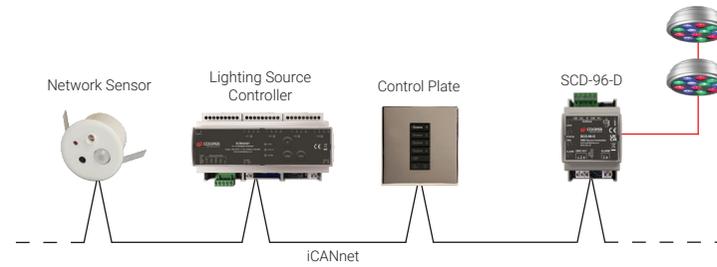
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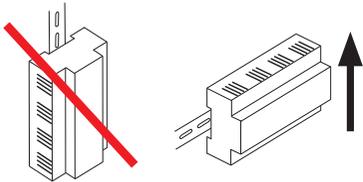
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Typical Schematic



Mounting & Installation

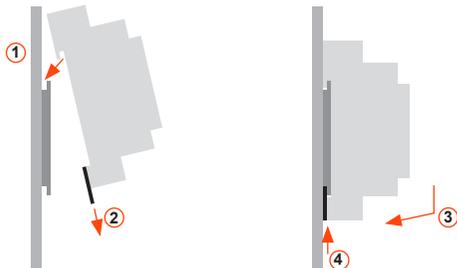


SCD-96-D must be mounted in a suitable enclosure to provide regulatory protection from electric shock hazard as well as protecting the iCANnet data network from tampering that could lead to reduced network security.

Ensure selected enclosure provides adequate cooling ventilation.

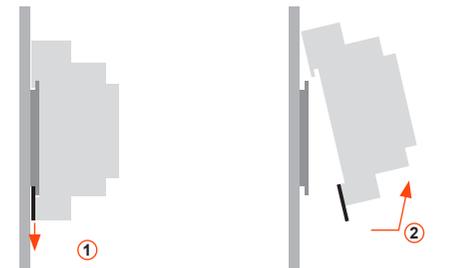
Fixing to DIN rail

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: 15VDC (12-18V) via iCANnet™

Network termination: Screw terminals within two part connectors

Load Types: DMX controlled loads (96 DMX addresses total)

32 connected devices maximum, for more devices utilise DMX Splitter/Repeater or employ multiple SCD-96-Ds

Terminal Sizes:

iCANnet™ network cable size: 5 x 1mm²

DMX output: 3 x 1mm²

Alarm Input: 2 x 1mm²

Memory: FLASH memory to be able to upgrade software

EEPROM for 128 scene memory

Fade Times: 0.1 seconds to 60 minutes

Control Connection:

iCANnet™ network x 2 (Suitable for iCANnet Cable)

CAN termination link

DMX terminals (DMX-512A)

DMX termination link

Alarm input x 1

Mechanical Data

Weight: 0.1 kg (0.22lb)

Operating temperature: 0°C to +50°C

Max storage temperature: +60°C

Humidity: +5 to 95% non-condensing

Environmental protection: IP20

SCD-96-D

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Device LEDs and Buttons

Data LED

Red flashing: Traffic being sent and/or received
Red on: iCAN network comms error

Status LED

Green flashing: Normal operation

DMX LED

Red flashing: DMX data sent

Alarm LED

Red flashing: Alarm data sent

Device Identification Button (IDENT)

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

iCAN network wiring

Cable connections to the iCAN network are made to a removable 5-way connector block located at one end of the SCD-96-D unit:



+VDC CAN-H SHIELD CAN-L 0V

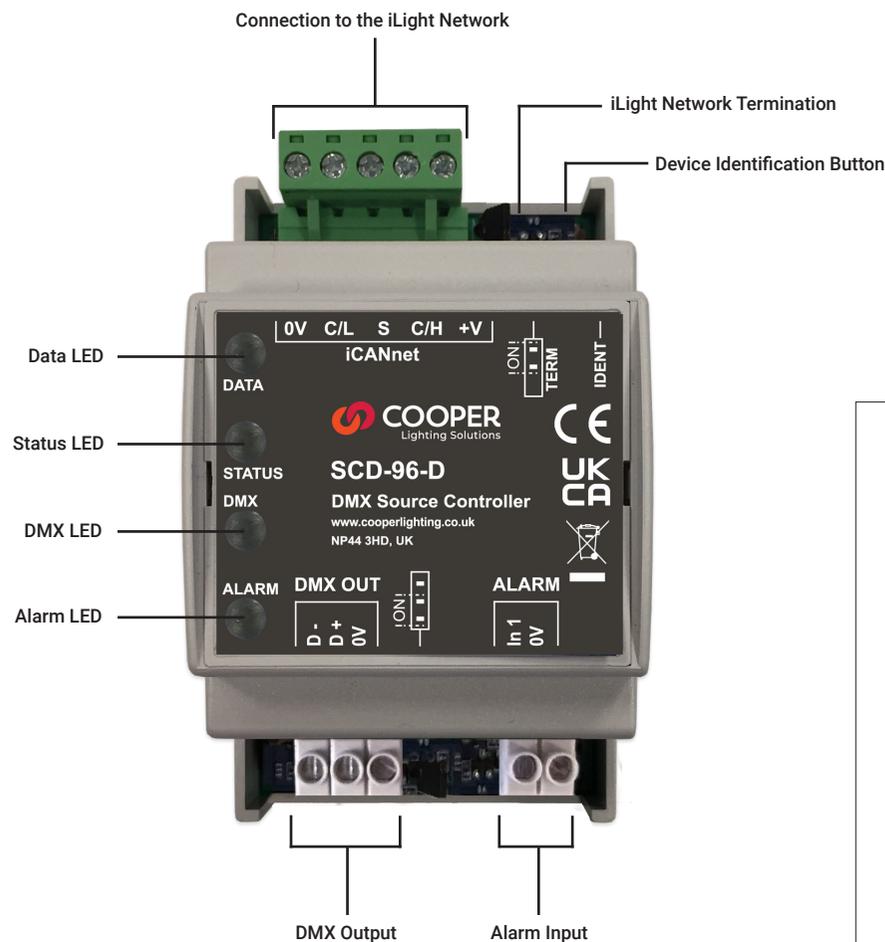
Function	iCANnet Cable Colours
0V	Black
CAN L	Blue
Shield	Silver
CAN H	White
+VDC	Red

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

Network Power Requirements

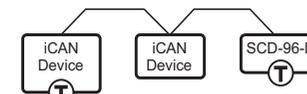
Nominal operating voltage: 15V (12-18V)
Nominal operating current: 70mA

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 SCD-96-D 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 SCD-96-D termination, move the jumper outwards from the inner two pins to the outer two pins:



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.