Installation Guide

SI-2-D
System Integrator

CE
RoHS
ISO 9001:2015 Quality Management
FM 664349

Typical Schematic

Source Controller
Source Controller
Control Plate
SI-2-D System Integrator Node
Screens, Projectors, AV Systems
iCANnet
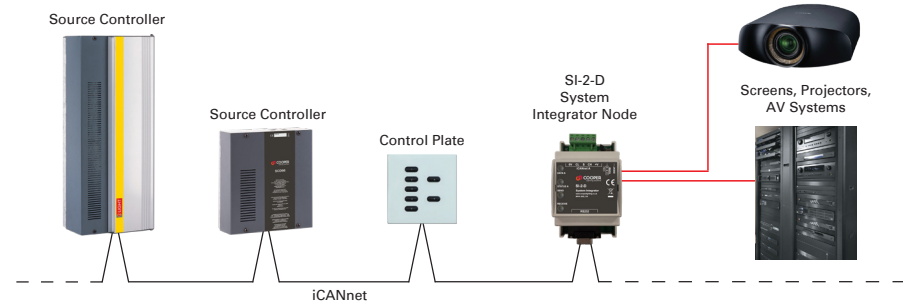
Mounting & Installation
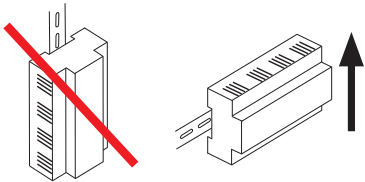
SI-2-D must be mounted in a suitable enclosure to provide regulatory protection from electric shock hazard as well as protecting the iCANnet data network from tampering that could lead to reduced network security.

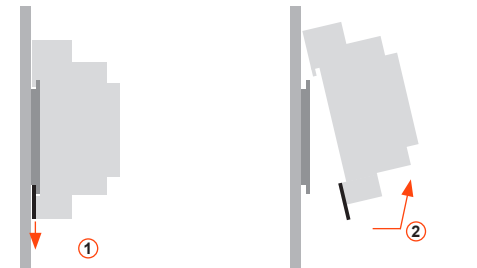**Ensure selected enclosure provides adequate cooling ventilation.**

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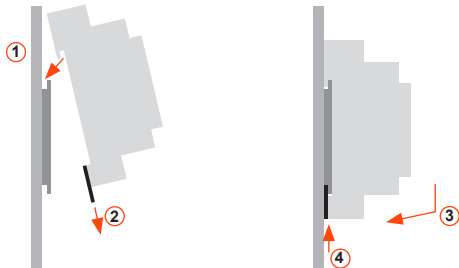
Removing from DIN rail
1. Pull down bottom clip with screwdriver.
2. Lift module away from DIN rail.

Technical Data

Electrical Data
Supply: 15VDC (12-18V) via iCANnet™
iCANnet™ inputs/output: Screw terminals

Mechanical Data
Weight: 0.1 kg (0.22lb)
Operating temperature: 0ºC to +50ºC
Max storage temperature: +60ºC
Humidity: +5 to 95% non-condensing
Environmental protection: IP20
Installation: Installation must be carried out by a suitably qualified electrician and installed in a suitable DINrail enclosure rated for the intended environment.

SI-2-D
System Integrator

Device LEDs and Buttons

At iCANnet end

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

Status A LED
Green flashing: Normal operation

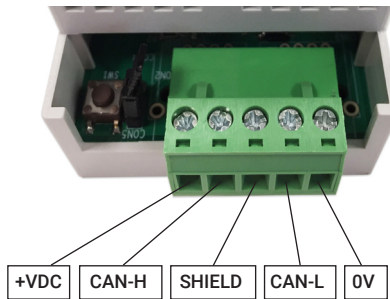### At the RS232 end

Send LED
Green flashing: RS232 data received

Receive LED
Red flashing: RS232 data sent

iCAN network wiring
Cable connections to the iCAN network are made to a removable 5-way connector block located at one end of the SI-2-D unit:
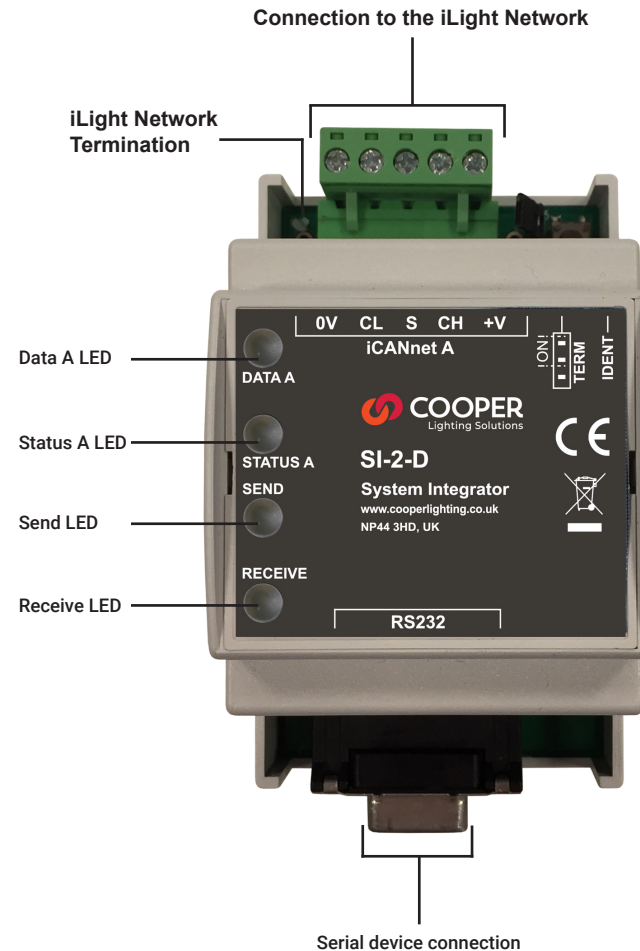

+VDC   CAN-H   SHIELD   CAN-L   0V

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: 30mA

Typical Connection Diagram

Connection to the iLight Network

iLight Network Termination

Data A LED

Status A LED

Send LED

Receive LED

0V   CL   S   CH   +V
iCANnet A

DATA A

STATUS A

SEND

COOPER
Lighting Solutions

SI-2-D
System Integrator
www.cooperlighting.co.uk
NP44 3HD, UK

RECEIVE

RS232

Serial device connection

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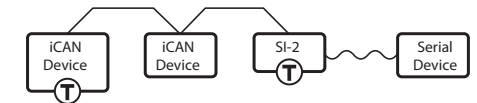
Serial device connection

The SI-2-D provides an RS232 link via a standard 9-pin D-type female connector. The SI-2-D uses five pins of the D-type connector as shown below:

GND (pin 5)   RxD (pin 3)   TxD (pin 2)

RTS (pin 8)   CTS (pin 7)
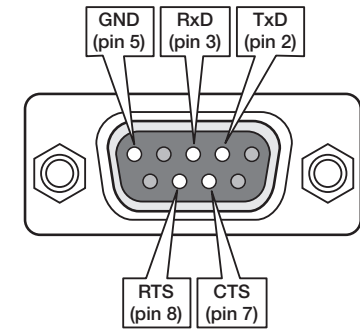
Network termination
The iCAN network follows a daisy chain topology that requires termination on the devices located at either end of the network.

iCAN Device   iCAN Device   SI-2   Serial Device

The SI-2-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.

The connection of the serial data cable to the device is treated separately and has no impact on whether or not the SI-2-D should be terminated on the iCAN network side.
To enable SI-2-D termination, move the jumper outwards from the inner two pins to the outer two pins:

Termination ON   Termination OFF