WaveLinx Wired SCD96

96 Channel DMX Source Controller

Installation Instructions

COOPER Lighting Solutions
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⚠ WARNING

Risk of Fire, Electrical Shock, Cuts or other Casualty Hazards- Installation and maintenance of this product must be performed by a qualified electrician. This product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and hazards involved. For continued protection against shock hazard replace all covers and guards after field wiring is completed.

Risk of Fire and Electric Shock- Before installing or performing any service, the power MUST be turned OFF. All installations should be in compliance with the National Electric Code and all state local codes.

Risk of Burn- Disconnect power and allow product to cool before handling or servicing.

Risk of Personal Injury- Due to sharp edges, handle with care.

Failure to comply with these instructions may result in death, serious bodily injury and property damage.

DISCLAIMER OF LIABILITY: Cooper LIghting Solutions assumes no liability for damages or losses of any kind that may arise from the improper, careless, or negligent installation, handling or use of this product.
IMPORTANT: Read carefully before installing product. Retain for future reference.
NOTICE: Product may become damaged and/or unstable if not installed properly.
Note: Specifications and dimensions subject to change without notice.
ATTENTION Receiving Department: Note actual product description of any shortage or noticeable damage on delivery receipt. File claim for common carrier (LTL) directly with carrier. Claims for concealed damage must be filed within 15 days of delivery. All damaged material, complete with original packing must be retained.

NOTICE: Designed for indoor installation and use only.

Warranties and Limitation of Liability

Please refer to **https://www.cooperlighting.com/global/resources/legal** for our terms and conditions.

Technical Data

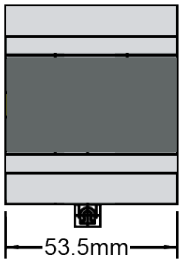
Electrical Data

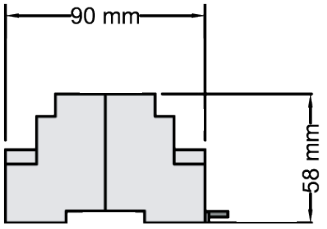
Supply: 15VDC (12-18V) via iCANnetTM
Network termination: Screw terminals within two part connectors
Load Types: DMX controlled loads (96 DMX addresses total)
32 connected devices maximum, for more devices utilise DMX Splitter/Repeater or employ multiple SCD-96-Ds
Terminal Sizes:
iCANnetTM network cable 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:
iCANnetTM network x 2 (
Suitable for iCANnet Cable)
CAN termination link
DMX terminals (DMX-512A)
DMX termination link
Alarm input x 1

Mechanical Data

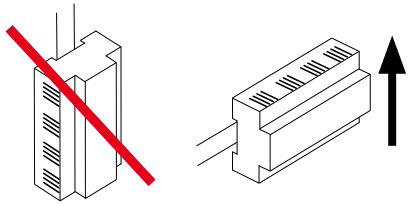
Weight: 0.1 kg (0.22lb)
Operating temperature: 0°C to +50°C
Max storage temperature: +60°C
Humidity: +5 to 95% non-condensing
Environmental protection: IP20

Dimensions





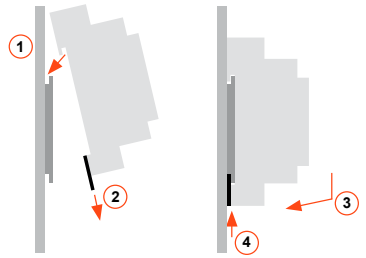
Mounting & Installation



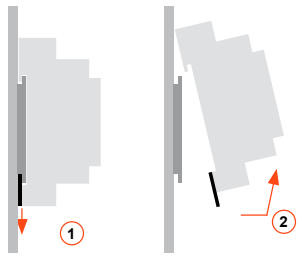
SCD-96-D must be mounted in a suitable enclosure to provide regulatory protection from electric shock hazard as well as protecting the iCANnet data network from tampering that could lead to reduced network security.

Ensure selected enclosure provides adequate cooling ventilation.

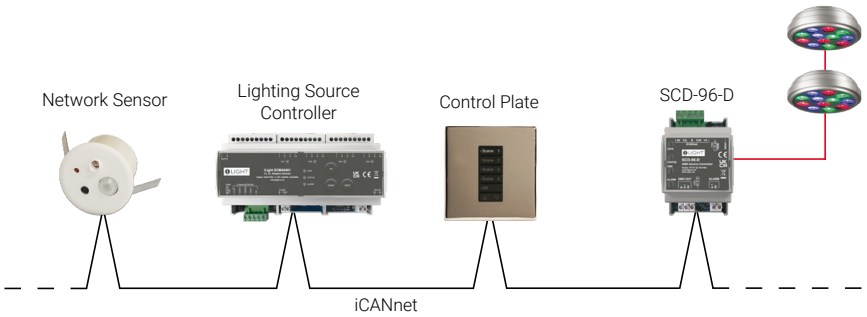
Fixing to DIN rail
1. Fix top clips over DIN rail.
2. Pull down bottom clip using screwdriver.
3. Close module towards DIN rail.
4. Push up bottom clip to fix securely to DIN rail.



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



Typical Schematic



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96 Channel DMX Source Controller

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

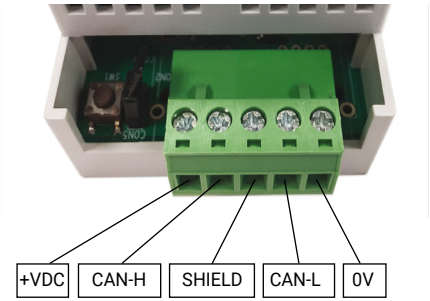
DMX LED
Red flashing: DMX data sent

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

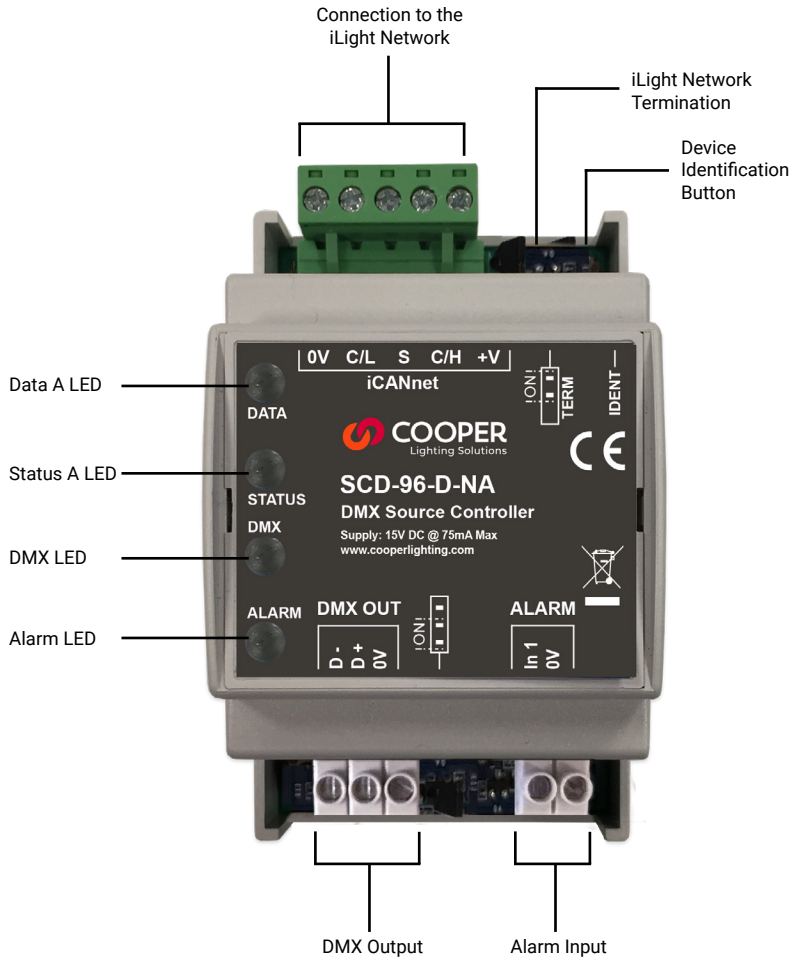
Cable connections to the iCAN network are made to a removable 5-way connector block located at each end of the SCD96 unit:



Function	Network Cable Colour
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.

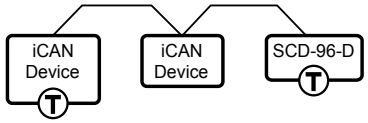
Typical Connection Diagram



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.

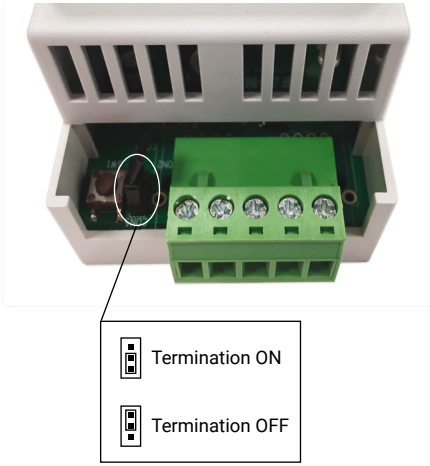
Network termination

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

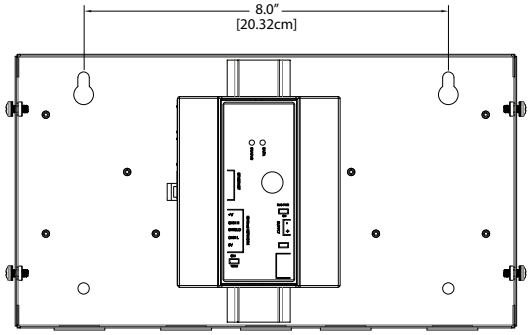


The SCD-96-D unit is supplied with termination disabled as standard. If it is connected as an end device in the iCAN network, you need to move the jumper to enable termination.

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



SCG96 must be installed in a suitable DINrail enclosure. Always mount in well ventilated location.



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