

Installation Guide

BN-2-D

Isolated iCAN Network Bridge



Cooper Lighting Solutions

UK
 Usk House, Lakeside, Llantarnam Park,
 Cwmbran, NP44 3HD, UK
 t: +44 (0)1923 495495
 e: info@cooperlighting.co.uk
 www.cooperlighting.co.uk

US
 1121 Highway 74 South
 Peachtree City, GA 30269
 www.cooperlighting.com
 P: 1-800-553-3879

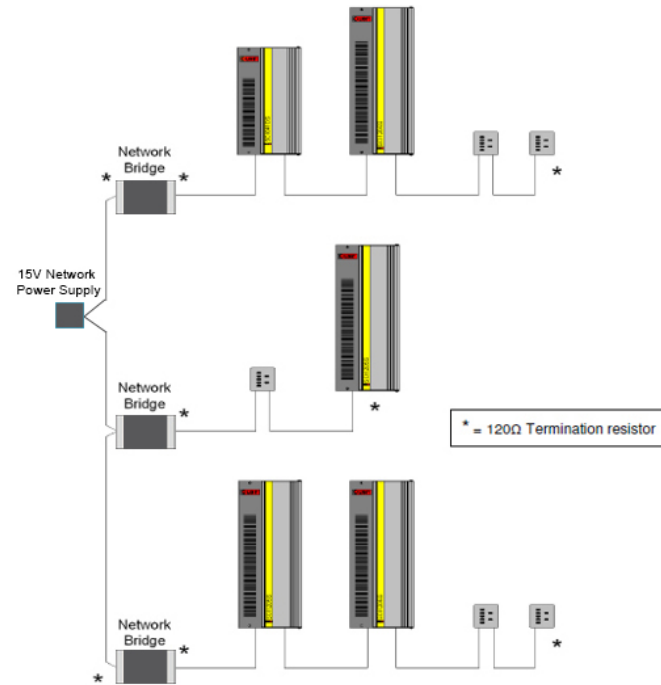
Canada
 5925 McLaughlin Road
 Mississauga, Ontario L5R 1B8
 P: 905-501-3000
 F: 905-501-3172

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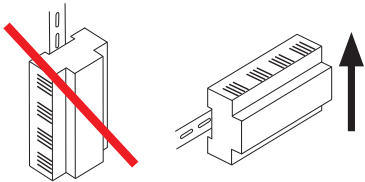
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Typical Schematic



Mounting & Installation

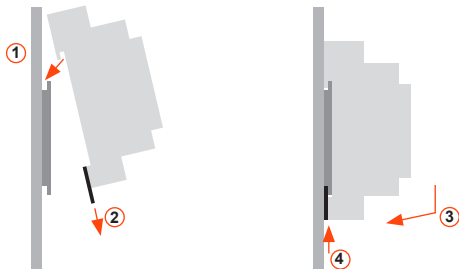


BN-2-D must be mounted in a suitable enclosure to provide regulatory protection from electric shock hazard as well as protecting the iCANnet data network from tampering that could lead to reduced network security.

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: 0°C to +50°C
 Max storage temperature: +60°C
 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.

BN-2-D

Isolated iCAN Network Bridge

Device LEDs and Buttons

At iCANnet A 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 iCANnet B end

Status B LED

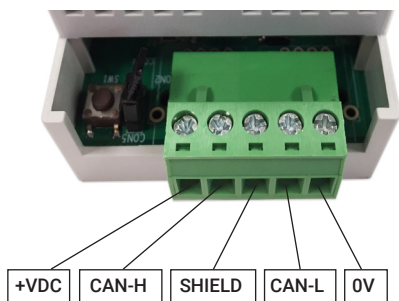
Green flashing: Normal operation

Data B LED

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

iCAN network wiring

Cable connections to the iCAN network are made to a removable 5-way connector block located at each end of the BN-2-D unit.



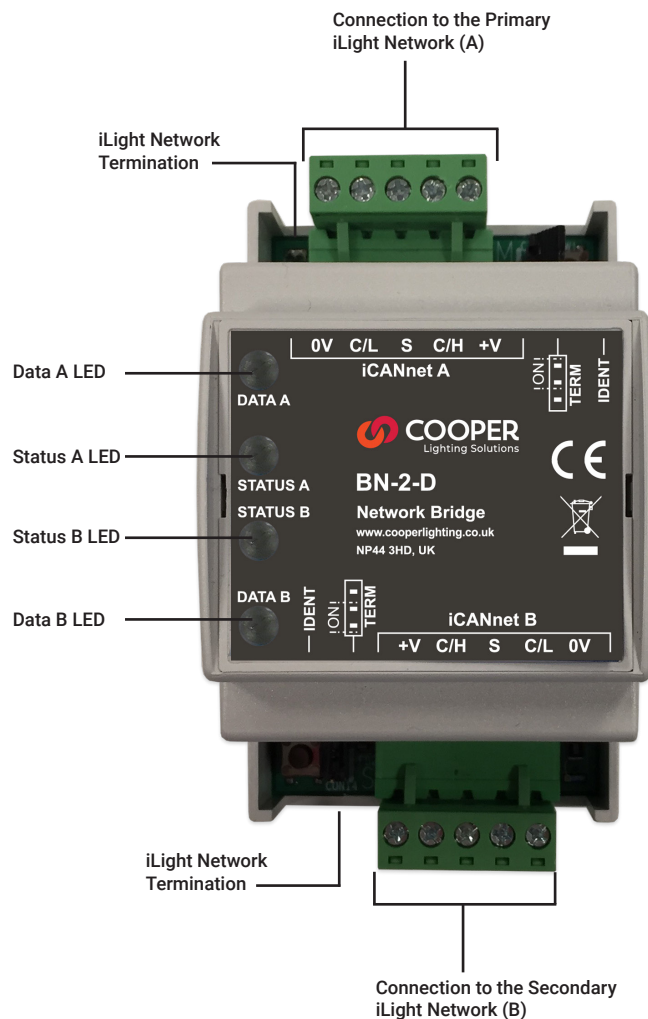
Function	iCANnet Cable Colours
0V	Black
CAN L	Blue
Shield	Silver
CAN H	White
+VDC	Red

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: 40mA (Per side)

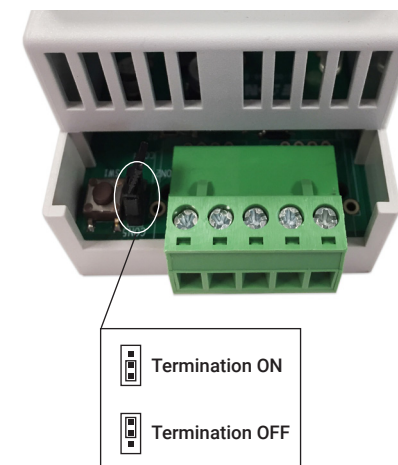
Typical Connection Diagram



iCANnet termination

The iCAN network link is a 'Multi drop' linear network that requires termination on the devices located at either end of the iCAN network chain. The BN-2-D unit is supplied with termination jumper enabled as standard on both network sides. If it is not connected as an end device in the iCAN network chain, the jumper link should be removed or placed in the Termination OFF position..

Both the primary (A) and the secondary (B) network sides are independently terminated. Move the link to the ON or OFF position as required as shown in the image below.



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.