

WaveLinx Wired BN-2-D

Isolated iCAN Network Bridge Installation Instructions



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 www.cooperlighting.com for our terms and conditions.

WaveLinx Wired BN-2-D Isolated iCAN Network Bridge

Electrical Data

Supply: 9 – 24Vdc via iCANnet™
iCANnet™ inputs/output: Screw terminals

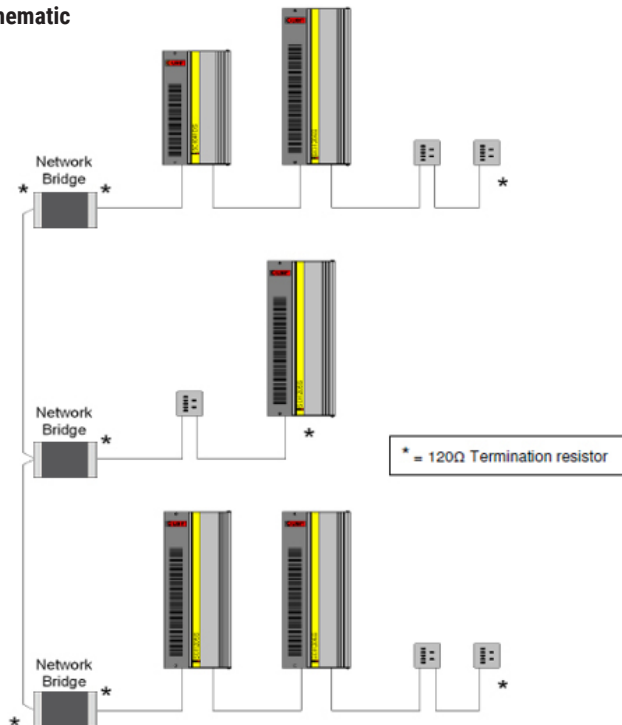
Mechanical Data

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

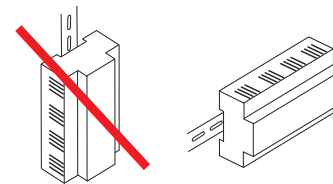
Installation: Installation must be carried out by a suitably qualified electrician and installed in a suitable DINrail enclosure rated for the intended environment.



Typical Schematic



Mounting & Installation

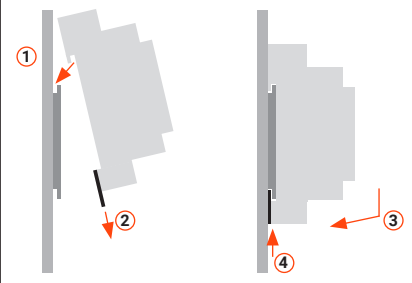


BN-2-D must be mounted in a suitable enclosure to provide regulatory protection from electric shock hazard as well as protecting the iCANnet data network from tampering that could lead to reduced network security.

Ensure selected enclosure provides adequate cooling ventilation.

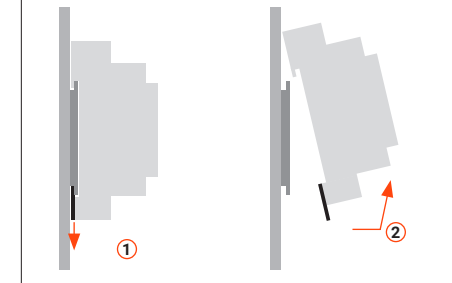
Fixing to DIN rail

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.



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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

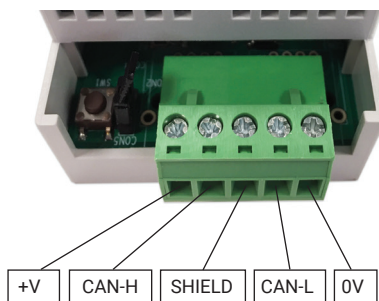
Green flashing: Normal operation

Data B LED

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

iCAN network wiring

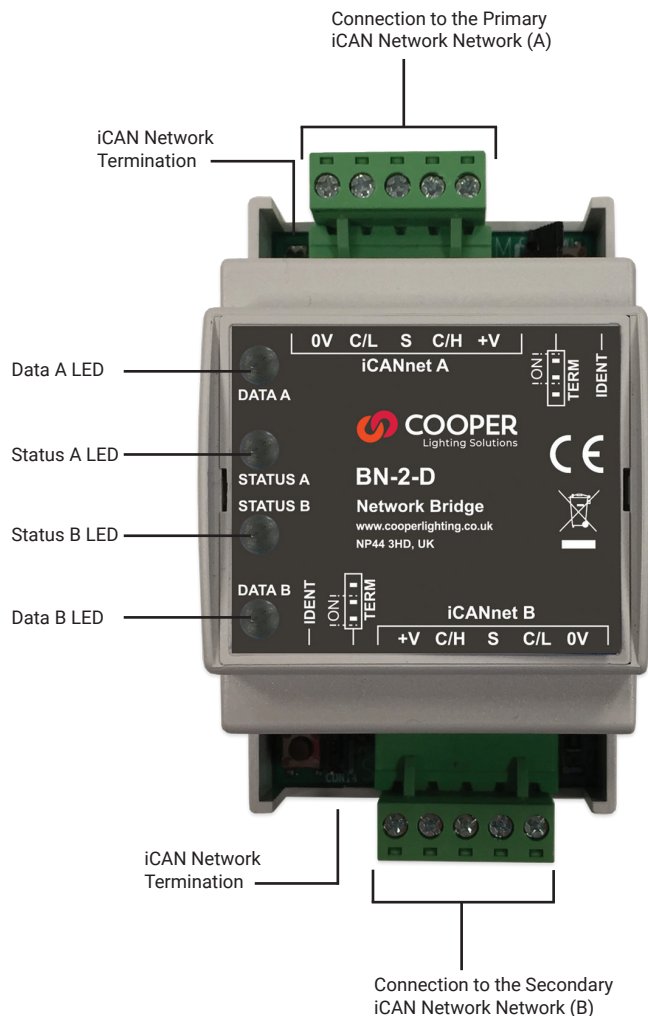
Cable connections to the iCAN network are made to a removable 5-way connector block located at each end of the BN-2-D unit:



Function	Network Cable Colour
0V	Black
CAN L	White
Shield	Silver
CAN H	Blue
+V 40mA	Red

A maximum segment distance of 500m is possible if an additional 12V power supply is used.

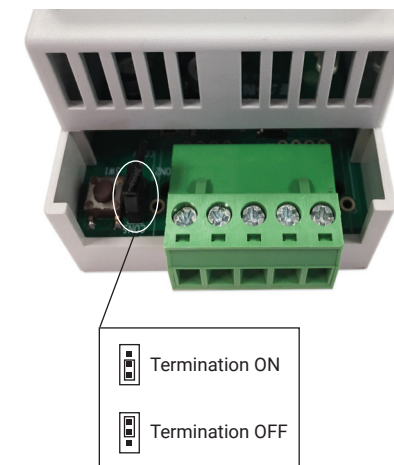
Typical Connection Diagram



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.



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