Installation Guide

TSI-1
TSE Touchscreen Interface

RoHS

bsi. ISO 9001:2015 Quality Management
FM 664349

Typical Schematic

Source Controller
Source Controller
Control Panel
TSI-1 Touchscreen Interface
Ethernet Switch
WIFI Router
Tablet
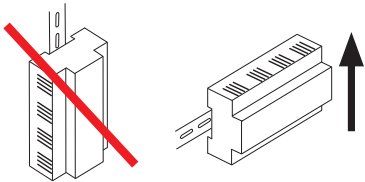TSE Touchscreen
PoE
iCANnet

Mounting & Installation

TSI-1 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.
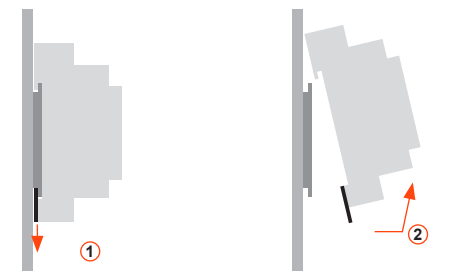
Fixing to DIN rail
1. Fix top clips over DIN rail.
2. Pull down bottom clip using screwdriver.
3. Close module towards DIN rail.
4. Push up bottom clip to fix securely to DIN rail.
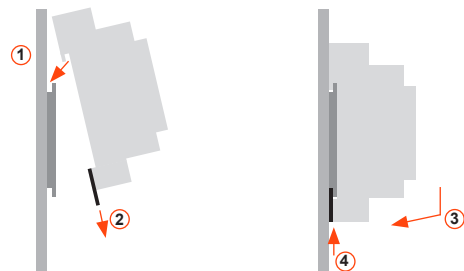
Removing from DIN rail
1. Pull down bottom clip with screwdriver.
2. Lift module away from DIN rail.

Technical Data

Electrical & Mechanical
Control: Via iCAN connection
Supply: +10 - 24V DC @ 750 mA Max (via external power supply)
Terminal Size: iCANnet cable size: 5 x 1mm^2. Power cable size: 2 x 1mm^2
Protection: Provided by installer
Recommended Cable: iCANnet Network Cable
Ambient temperature: 2°C – 50°C
Relative humidity: 5% - 95% max, non-condensing
IP rating: IP20
Installation: Installation must be carried out by a suitably qualified electrician and installed in a suitable DINrail enclosure.
Dimensions: 106mm (w) x 91mm (h) x 62mm (d)
Weight: 0.22kg

Software
For programming TSI-1, Device Editor and TSE Designer software are required.
Please consult your Cooper Lighting Solutions representative for latest versions.

TSI-1
TSE Touchscreen Interface

Device LEDs and Buttons

Status LED
Green LED flashes – device OK

Data LED
Red LED flashes when messages sent on network.

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

iCAN Network Connections

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)
Consult Cooper Lighting Solutions for information on alternative cable types.

Network Power Requirements
Nominal operating voltage: 15V (12-18V)
Nominal operating current: 750mA

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.
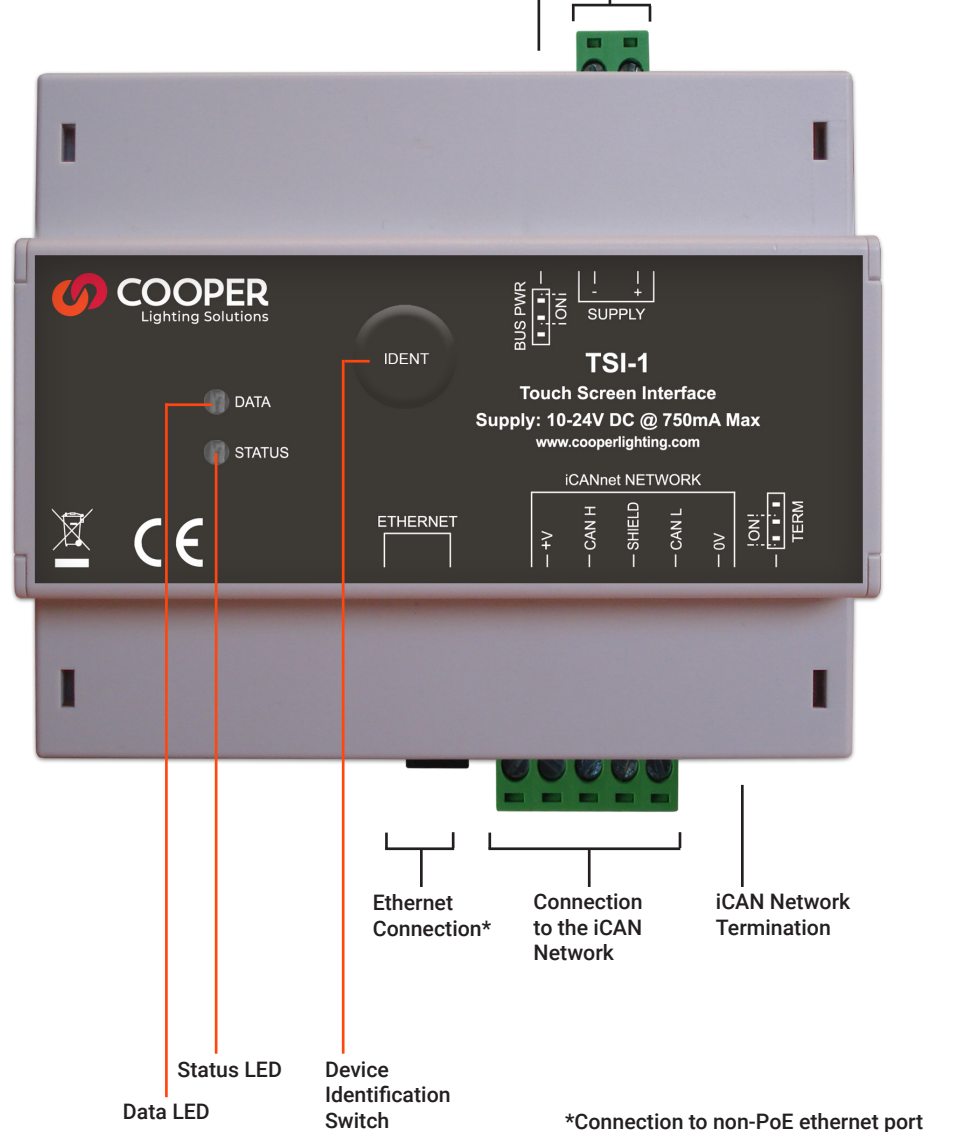
Typical Connection Diagram

Power Supply Jumper
Enables iCAN Network BUS power when in the 'ON' position. Disables iCAN Network BUS power when removed or in the 'OFF' position.
Caution: This product requires 15V @ 750mA. When using the network to power this device ensure adequate power is available on the network.

Power Supply
+10 - 24V DC @ 750 mA Max

Status LED

Data LED

Device Identification Switch

Ethernet Connection*

Connection to the iCAN Network

iCAN Network Termination

*Connection to non-PoE ethernet port