

ClickOn Bus Power Supply Interface

CB-PSI-12

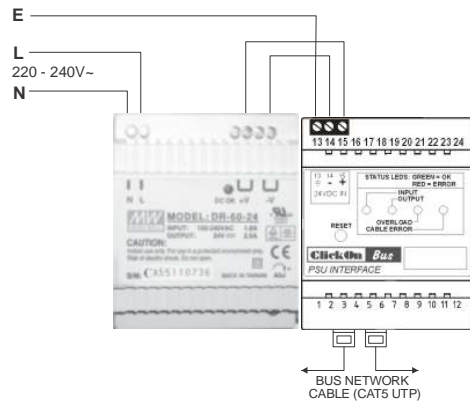
Installation Instructions and User's Guide



Specifications

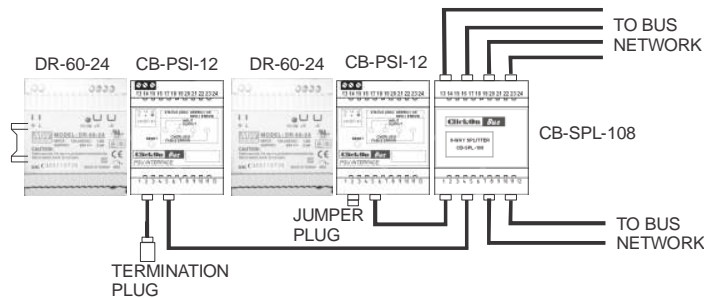
- Input Voltage: 24VDC
- Output voltage to Bus network: 24VDC
- Maximum load: 2A
- Ambient Temperature: 0 – 40 °C (32 – 104 °F)
- Ingress Protection: IP20
- Dimensions: 70mm (width) x 58mm (height) x 86mm
- Recommended power supply:
 - MEANWELL model DR-60-24

Wiring Diagram



Bus Network Power Supply Requirements

- Power to the Bus Network is supplied via one or more 24VDC 2.5A power supply units (recommended: Meanwell DR-60-24)
- Each Power Supply must be connected to the network via a separate Power Supply Interface unit (CB-PSI-12).
- Each power supply interface can supply up to 2A to the network.
- More than one power supply and power supply interface combination can be used if the total network current consumption exceeds 2A.
- To obtain the total current requirement of a Bus Network, add up the individual current consumptions of all devices on the network (see the *ClickOn Bus Network installation Guide* or the user guide for each Bus device).



Installation

- The Power Supply and Power Supply Interface unit should only be installed by a suitably qualified person
- Units should be installed in a suitable distribution box fitted with 35mm din rail
- Ensure that the mains power has been switched off before commencing installation
- All mains wiring should be done in accordance with local authority wiring regulations
- A safe isolation distance should be kept between all mains wiring and the Bus network cable
- DO NOT make any mains connections to the interface unit.
- Install the interface as close as possible to the power supply using the provided red (+) and black (-) wires to connect the interface to the 24VDC output of the power supply.
- Always ensure that the interface is properly earthed via the earth connection (green wire) on the interface unit.
- See the *ClickOn Bus Network installation Guide* for more information on the Bus network wiring

Setup

- No further unit setup procedure is required from the CLBUS installation software.

Operation

- In case of shut down due to an error condition, press the red reset button on the unit to restore the output
- In CLBUS installation software, the power supplied by a Power Supply Interface to the Bus Network will be shown in the Status field as a percentage of the maximum available power (example 56% = 0.56 x 2A = 1.12A).

Status LEDs

INPUT: Green = Input supply present

OUTPUT: Green = Output ON; Red = Output OFF

OVERLOAD: Green = Output current less than 2A; Red = Output current higher than 2A

CABLE ERROR: Green = Network OK; Flashing red = Error

1 Flash: Short circuit on network

2 Flashes: Open end on network.

Note: Indication of error conditions is dependent on the network layout and exact location of the fault and may not always be detected.