

ClickOn Bus Power Supply Interface CB-PSI-12



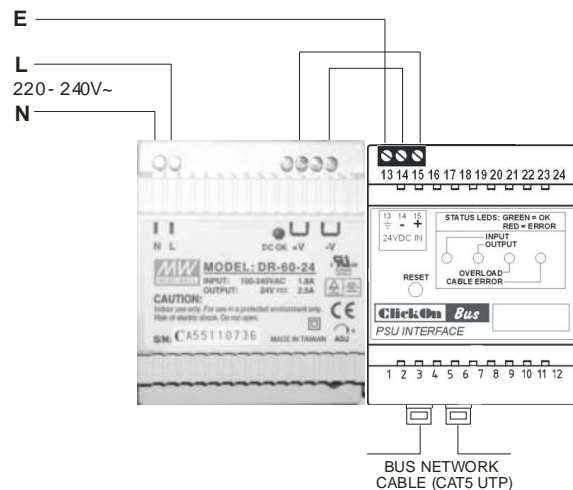
Product Features

- Provides an interface between a 24VDC power supply and the ClickOn Bus network
- DIN rail mounted (4 modules wide)
- Connects to the ClickOn Bus network via 2 RJ45 connectors
- Provides status feedback to the ClickOn Bus Installation Software (current drawn from the power supply)
- Automatic shutdown of Bus Supply voltage in case of an overload or short circuit condition on the bus network cable
- Multiple units can be used on the bus network (each with it's own power supply)

Specifications

- Model: CB-PSI-12
- Input Voltage: 24VDC
- Output voltage to Bus network: 24VDC
- Maximum load: 2A
- Ambient Temperature: 0 – 40 °C
- Ingress Protection: IP20
- Dimensions: 70mm (width) x 58mm (height) x 86mm
- Recommended power supplies:
 - MEANWELL model DR-4524
 - MEANWELL model DR-60-24

Wiring Diagram



Installation

- Install the interface as close as possible to the power supply using the provided red (+), black (-) and green (earth) wires to connect the interface to the 24VDC output of the power supply.
- DO NOT make any 220V mains connections to the interface unit.
- Always ensures that the interface is properly earthed via the earth connection on the interface unit.
- To determine the number of power supplies and power supply interfaces needed, add the individual maximum supply currents of all the devices on the network. Each interface can supply up to 2A to the network.
 - Example: An installation contains the following devices:

▪ 50 Dimmers	50 x 0.02A = 1.0A
▪ 20 Power Switches	20 x 0.05A = 1.0A
▪ 2 Relay Modules	2 x 0.10A = 0.2A
▪ 30 Wallswitches	30 x 0.03A = 0.9A
▪ 2 RF Transceivers	2 x 0.05A = 0.1A
▪ 1 PC Interface	1 x 0.05A = 0.05A
 - The total current consumption is 3.25A
 - The number of power supplies and interfaces needed = 2 (providing a maximum of 4A)

Operation

- In case of shut down due to an error condition, press the red reset button on the unit to restore the output

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 this error is dependent on the network layout and exact location of the fault and may not always be detected.