

D002 Octal SPST Relay Module

8 Channels, 250 VAC, 3 A per Channel, Fast Switching

Product Description

The D002 device is a versatile and easy-to-use octal high-current high-voltage SPST (single pole single throw) relay module. Every of the eight channels can individually be opened or closed.

Electrical or electro-pneumatic valves, heaters or AC / DC motors and other high-power devices of up to 120W / 250VA can be controlled with the D002 device.

The versatility and the straightforward usability make the device ideal for industrial applications as well as for scientific experiments.

Features

- ▶ Connected to 10/100BASE-TX Ethernet over RJ45 jack
- ▶ Eight independent SPST relay channels
- ▶ Switching voltage of 250VAC or 220VDC
- ▶ Continuous current of up to 3A per channel
- ▶ Switching capacity of 120W / 250VA
- ▶ 250VAC channel-to-channel isolation
- ▶ Fast switching times of typically 2ms
- ▶ No external power supply required
- ▶ Surveillance of all voltages and board temperature
- ▶ Powered via PoE (Power over Ethernet)
- ▶ Idle power consumption of less than 1.0W, max. 2.1W
- ▶ Compatible with all modern Ethernet standards
- ▶ Drivers for Microsoft® Visual C++™, MathWorks® MATLAB™, Python and National Instruments® LabVIEW™ programming environment

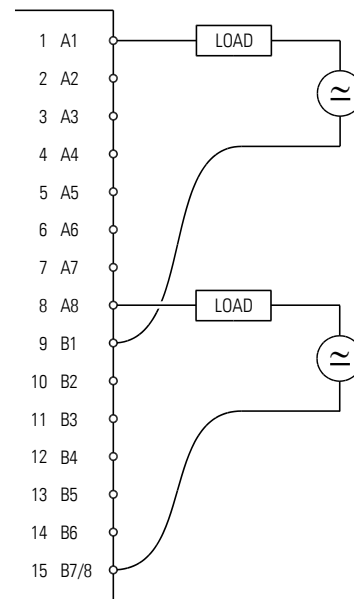
Electrical Connection

The following figure shows the recommended pin configuration of the D002 device. For the sake of clarity, only two channels are being utilized. Each channel consists of contacts A and B numbered from 1 to 8. If the channel is set to logic high, the contacts A and B are shorted. Contacts B7 and B8 are shared and tied to pin 15.

The output current per channel should not exceed 3A, any overrating

can endanger the D002 device and leads to excessive heating. The initial contact resistance is less than 40mΩ and is subject to increase during operation.

Do not connect or disconnect wires unless power has been switched off in order not to endanger the sensitive electronics.



Physical Specifications

Dimensions: 100 mm x 54 mm x 18 mm (3.94 in x 2.13 in x 0.71 in)

Mounting: 4 holes Ø 2.2 mm (0.087 in) at a distance of 94 mm x 48 mm (3.70 in x 1.89 in), intended for the use with metric M2 screws

PCB operating temperature: 0°C to 70°C (32°F to 158°F), ambient operating temperature depends on the case and its thermal isolation
Weight: 56 g (1.97 oz)

This product is not authorized for use as a critical component in life support devices or systems without the express written approval.

