

PERTRONIC INDUSTRIES LTD

INSTALLATION NOTE and DATASHEET

Intelligent Addressable Two-Pole Relay Module

M201EA-240



Overview:

The Intelligent Addressable (IA) Two-Pole Relay Module (M201EA-240) provides one two-pole voltage-free relay output, with one normally open contact, and one normally closed contact. The relay switches to the "on" or "off" state on command from the fire panel.

The module features a tri-colour LED status indicator. The fire panel can be configured to switch the indicator on, green, when the output relay is "on". The indicators can be set by panel command to pulse green each time the module is polled.

Two mounting holes and a pair of DIN rail clips allow the module to be installed in any type of enclosure, including a purpose-built surface-mount box (M200E-SMB). The indicator LEDs and address switches are accessible and visible in both DIN-rail and surface mount installations.

Application to NZS 4512 Systems:

NZS 4512:2021 sections 2.3.4 and 4.2.5 prohibit the installation of mains cabling inside fire panels or ancillary control devices. When installed in an NZS 4512-compliant fire panel or ancillary fire alarm system device, the M201EA-240 must not be connected to 230 volt ac mains power circuits.

Features:

- » Individually addressable by the fire panel
- » Two-pole relay with one pole normally open, and one pole normally closed
- » Tri-colour indicator LED visible from front and one side
- » Automatic detection of short-circuits on the intelligent addressable (IA) loop
- » Built in IA loop short-circuit isolator
- » Isolator may be bypassed by connecting terminals 2 and 4
- » Screwdriver operated rotary address switches, accessible from front and one side
- » Clips for top hat 35 mm DIN rail
- » Two mounting holes to suit M200E-SMB box
- » Compatible with Pertronic F220, F100A and F120A intelligent addressable fire panels
- » Uses one address on the intelligent addressable circuit
- » Complies with EN 54-17:2005 and EN 54-18:2005
- » FPANZ listing pending
- » When installed in an M200E-SMB box, the M201EA-240 is a suitable replacement for the M201E-240 in existing Pertronic system

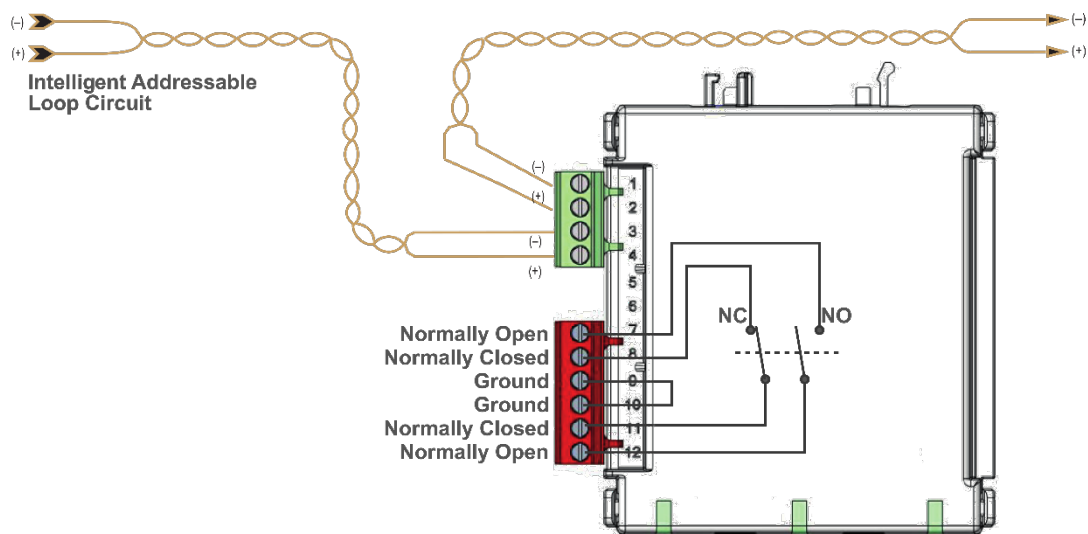


Intelligent Addressable Two-Pole Relay Module (M201EA-240)

Specifications:

Product Code	Description
Operating Voltage Range	15 V dc to 32 V dc
LED Cutoff Voltage	16.5 volts dc
Maximum Standby Current	27 μ A (no communication)
Fault Current	5.5 mA (Yellow LED illuminated)
Coil Activation/Deactivation Current	76 mA maximum for 12 milliseconds
Relay Contact Rating	5 amps @ 30 V dc 5 amps @ 100 V rms (audio) 5 amps @ 250 V ac (power)
Address Range	1 to 99
Dimensions (H x W x D)	82 x 22 x 99 mm excluding plug in terminal blocks 93 x 22 x 99 mm over terminal blocks
Maximum Wire Size	2.5 mm ²
Weight	118 g
IP Rating	IP 30
Operating Temperature	-20°C to 60°C
Humidity	5% to 95% Relative Humidity, non-condensing

Connections:



Note: To bypass the loop isolator, connect terminals 2 and 4 together.

Ordering Information:

Product Code	Description
M201EA-240	Intelligent Addressable Two-Pole Relay Module

