

Dual Input / Single Output Monitoring Module M221E

Description:

This module provides dual channel monitoring of normally open contact fire alarm and supervisory devices, and also provides single pole changeover contacts for the control of auxiliary devices such as fire shutters.

Three tri-color LED's are provided to indicate the status of each channel. LED's A and B refer to the two input channels. Each LED can be set by panel command to pulse green each time the module channel is polled. In case of an alarm the panel can switch the red indicator on continuously. The Yellow LED is controlled by the module and blinks to indicate an open circuit on the input circuit. This fault indication is always overridden by a panel command to turn the red LED on. LED C refers to the output channel. The LED can be set by panel command to pulse green each time the channel is polled. The LED will be switched continuously on Green by command from the control panel when the relay contacts are in the energized state.

The M221E relay contact ratings are 30VDC, 2A or 30VAC, 0.5A (Resistive load).

Technical Data

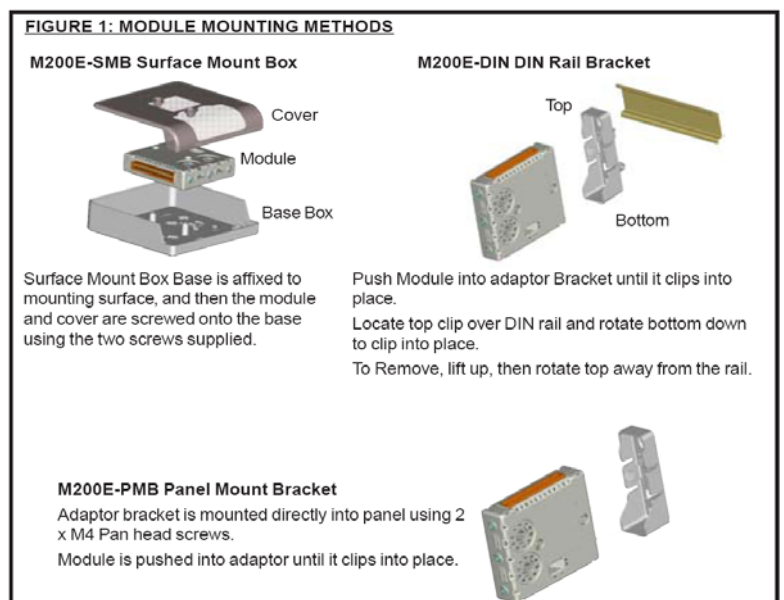
| | |
|--------------------------------|---|
| Operating Voltage Range | 15 to 30VDC (Min 17.5VDC to ensure LED operation) |
| Maximum Standby Current | |
| No Communications | 340µA |
| Communication with LED enabled | 660µA |
| LED Current (Red) | 2.2mA |
| LED Current (Yellow) | 8.8mA |
| Operating Temperature | -20°C to 60°C |
| Humidity | 5% to 95% Relative Humidity |
| Module Dimensions | 93mm(H) x 94mm(W) x 23mm(D) |
| Surface Mount Box Dimensions | 132mm(H) x 137mm(W) x 40mm(D) |
| Weight (Module Only) | 110 g |
| Weight (Module and M200E-SMB) | 252 g |
| Maximum Wire Gauge | 2.5mm ² |

Installation

Note: These modules must only be connected to control panels using compatible proprietary analogue addressable communication protocols for monitoring and control. M200 series modules can be mounted in several ways (See figure 1):

1. An M200E-SMB custom low profile surface-mounting box.
2. An M200E-DIN Adaptor allows mounting onto standard 35mm x 7.5mm "Top Hat" DIN rail inside a control panel or other suitable enclosure.
3. An M200E-PMB Panel Mount Bracket allows the module to be mounted directly into a panel or other suitable enclosure.

Wiring to all series M200 modules is via plug in type terminals capable of supporting conductors up to 2.5mm²



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The module address is selected by means of rotary decade address switches (see figure 2). These can be accessed either from the front or the top of the module. A screwdriver should be used to rotate the wheels to select the desired address, either from the front, or the top of the module.



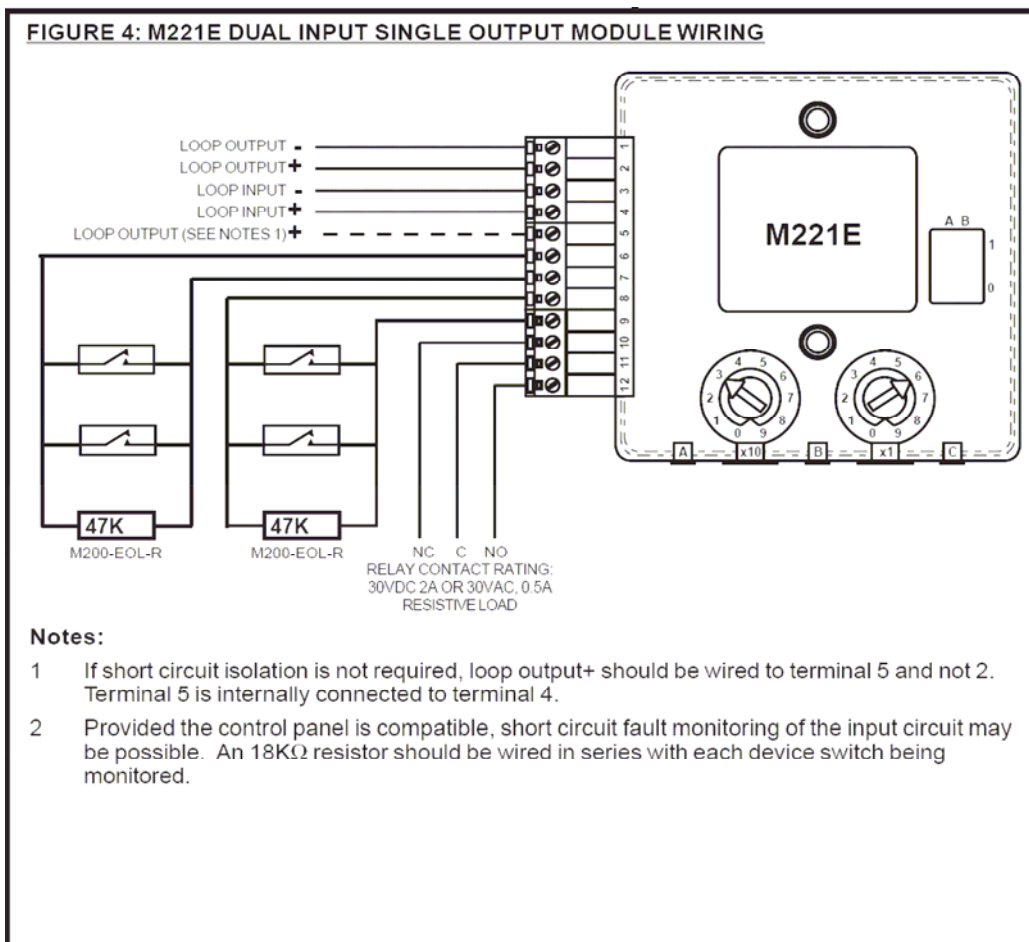
CAUTION: Disconnect loop power before installing modules or sensors

Short Circuit Isolators

All M200 series modules are provided with short circuit monitoring and isolators on the intelligent loop. If required the isolators may be wired out of the loop to facilitate the use of the modules on high current loaded loops, for example if sounders are used. To achieve this, the loop out positive should be wired to terminal 5 rather than terminal 2. See the relevant wiring diagram for details.

M221E Wiring

See figure 4 for wiring details



Part No.:

M201E K02469039

DIN Rail Clip M200E-DIN K02469043

Surface Box M200E-SMB KO K02469045