



Figure 1: M501MEA Installed Without Rigid Mounting

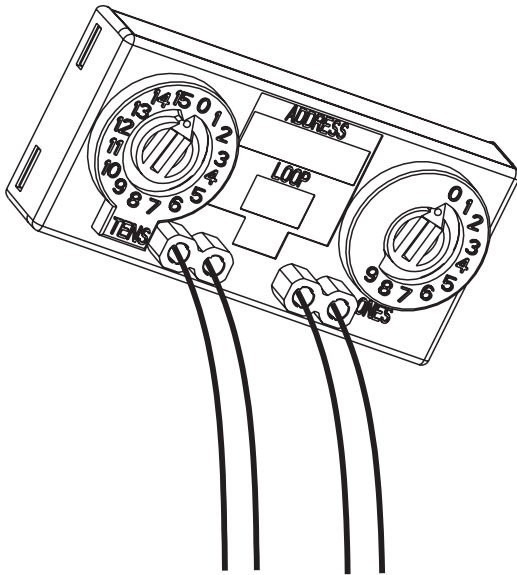
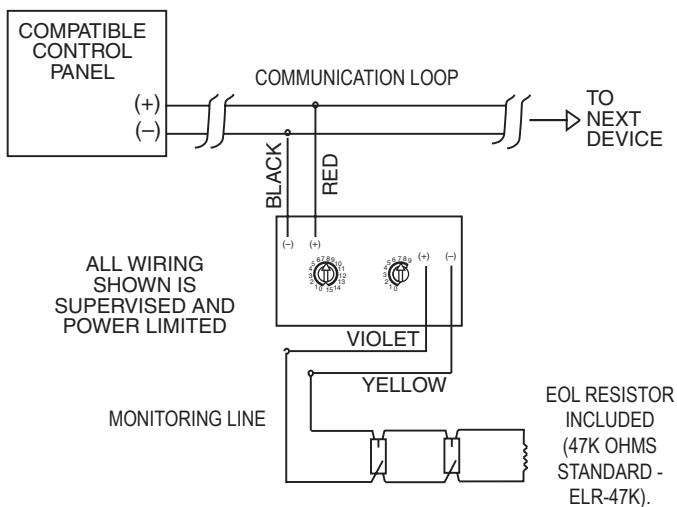


Figure 2: Typical Circuit Configuration



### BEFORE INSTALLING

This information is included as a quick reference installation guide. Refer to the control panel installation manual for detailed system information. If the modules will be installed in an existing operational system, inform the operator and local authority that the system will be temporarily out of service. Disconnect power to the control panel before installing the modules.

NOTICE: This manual should be left with the owner/user of this equipment.

### GENERAL DESCRIPTION

The M501MEA monitor module can be installed in a single gang junction box directly behind the monitored unit. Its small size and light weight allow it to be installed without rigid mounting (see Figure 1). The M501MEA is intended for use in intelligent, two-wire systems where the individual address of each module is selected using rotary decade switches. It provides a two-wire initiating circuit for normally open contact fire alarm and security devices.

Note: The M501MEA serves only to relay information linked to a fire signal to the control panel - it does not monitor the secondary line for short circuit faults.

To ensure proper operation, this module should only be connected to a compatible control panel.

### SPECIFICATIONS

#### Communications Loop

Nominal Operating Voltage:	15-32 VDC
Average Operating Current:	400 $\mu$ A, 1 comm. every 5 seconds, (Standard 47K EOL)
Maximum Alarm Current	600 $\mu$ A

#### Monitoring Line

EOL Resistance:	47K Ohms Standard
Maximum Wiring Resistance:	1.5K Ohms
Maximum Voltage to EOL:	11 Volts
Maximum Short Circuit Current:	217 $\mu$ A


#### General

Temperature Range:	-10°C to 55°C
Humidity:	10% to 93% Non-condensing
Dimensions:	33mm H x 71mm W x 15mm D
Wire Length:	150mm minimum

### MOUNTING AND WIRING

**NOTE:** This module is intended to be wired and mounted without rigid connections inside a standard electrical box. If rigid mounting is required, then it may be affixed within the enclosure using cable ties and where necessary suitable adhesive or screw type cable tie bases. The testing and the approval was carried out with the rigid installation. The module should be mounted flat ensuring that it does not foul any other equipment in the enclosure and care must be taken to ensure wires are not damaged during the installation.

1. Connect the red (+) and black (-) wires to the positive and negative leads of the communication loop.
2. Connect the violet (+) and yellow (-) wires to a two-wire, normally open monitoring line.
3. Install the specified EOL resistor value to terminate the monitoring line. **The EOL resistor for standard use is 47K Ohms – the other resistors are for special use only.**
4. Set the address on the module per job drawings.
5. Install the module in the desired mounting location.

 <b>0359 13</b> DOP-IOD005 EN54-17: 2005	<b>M501MEA</b> Input / Output Device
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