

## M500M-4-20 4-20mA Analog Input Module

### SPECIFICATIONS

#### SLC

|                            |                     |
|----------------------------|---------------------|
| Normal Operating Voltage:  | 15 to 32 VDC        |
| Maximum Current Draw:      | 9.3 mA (LED on)     |
| Average Operating Current: | 1 mA (LED flashing) |

#### External Supply

|                           |                |
|---------------------------|----------------|
| Normal Operating Voltage: | 24 VDC Nominal |
| Standby Current:          | 10 mA          |
| Maximum Current:          | 510 mA         |

#### Initiating Device

|                  |        |
|------------------|--------|
| Maximum Current: | 500 mA |
|------------------|--------|

#### Temperature Range:

-10°C to 60°C

#### Humidity:

10% to 95% Non-condensing

#### Dimensions:

4 1/2" H x 4" W x 1 1/4" D (Mounts to a 4" square by 2 1/8" deep box.)

#### Accessories:

SMB500 Electrical Box

### 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 M500M-4-20 4-20mA Analog Input Module is intended for use in intelligent, two-wire systems, where the individual address of each module is selected using the built-in rotary switches. This module allows intelligent panels to interface and monitor two-wire or three-wire sensors, that produce a 4-20mA signal output. It transmits the status (normal, open, or alarm) of one sensor back to the control panel. The M500M-4-20 has a panel controlled LED indicator. Only one sensor can be connected to the M500M-4-20.

### COMPATIBILITY REQUIREMENTS

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

### MOUNTING

The M500M-4-20 mounts directly to 4-inch square electrical boxes (see Figure 1). The box must have a minimum depth of 2 1/8 inches. Surface mounted electrical boxes (SMB500) are available from System Sensor.

### WIRING

NOTE: All wiring must conform to applicable local codes, ordinances, and regulations. This module is intended for powerlimited wiring only.

1. Install module wiring in accordance with the job drawings and appropriate wiring diagrams.
2. Set the address on the module per job drawings.
3. Secure module to electrical box (supplied by installer), as shown in Figure 1.

FIGURE 1. MODULE MOUNTING:

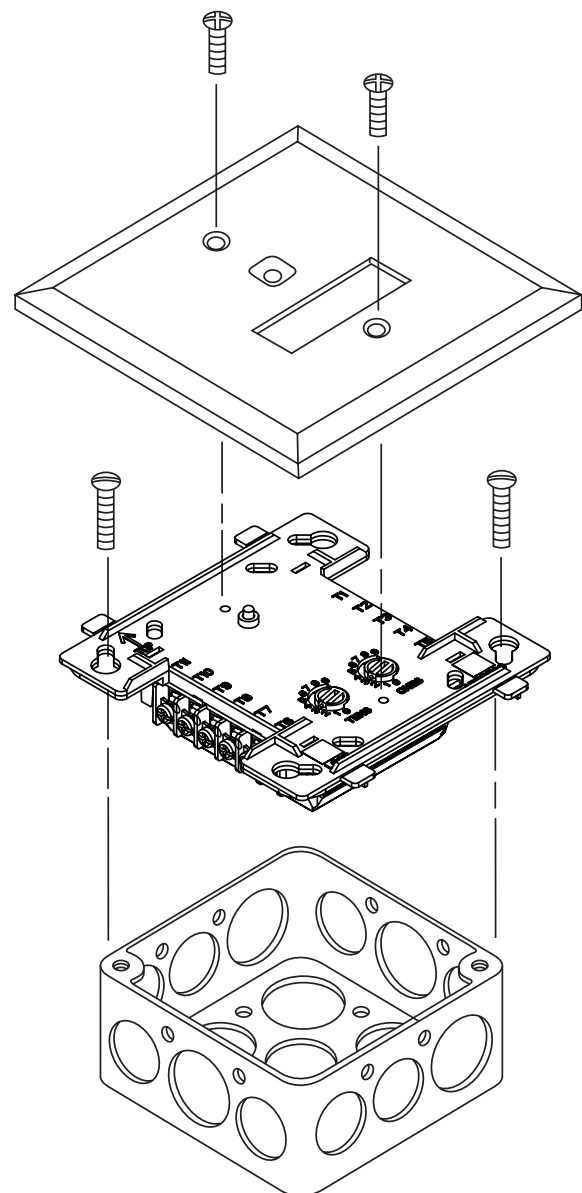


**FIGURE 2. 4-20mA MODULE 3-WIRE CONFIGURATION:**

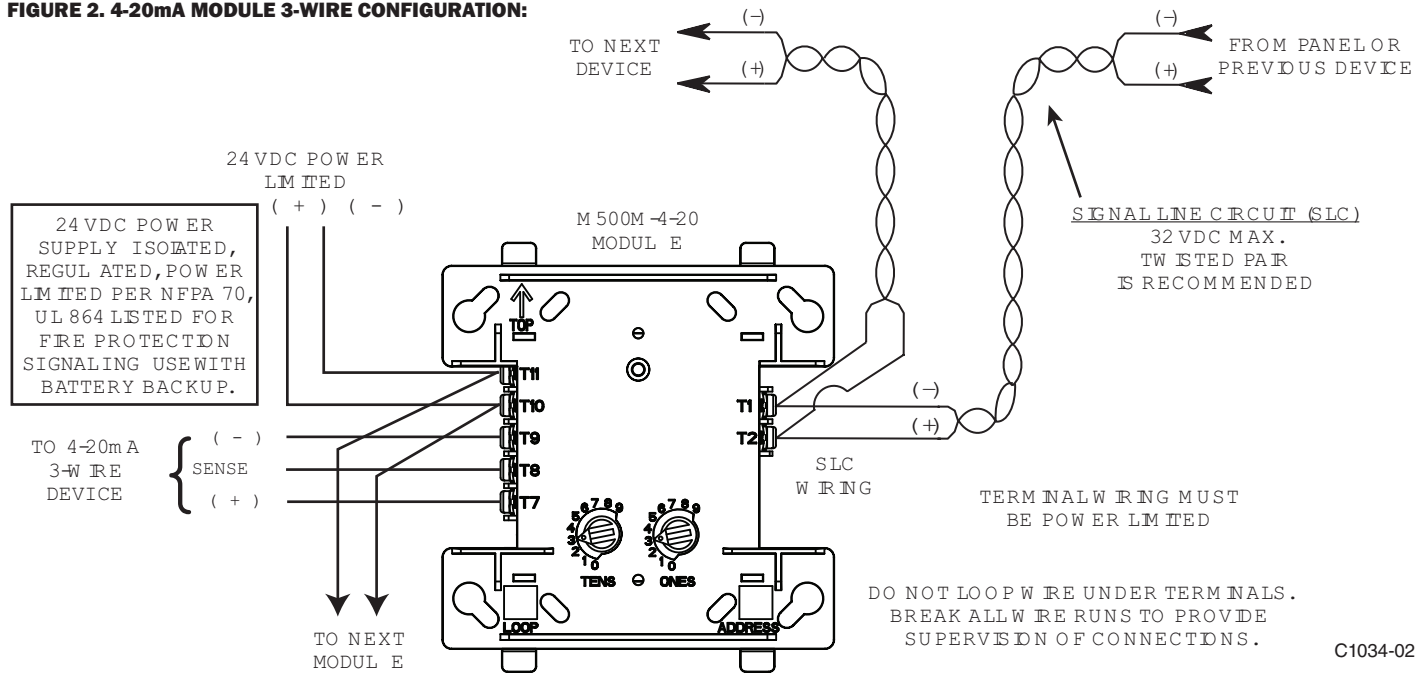
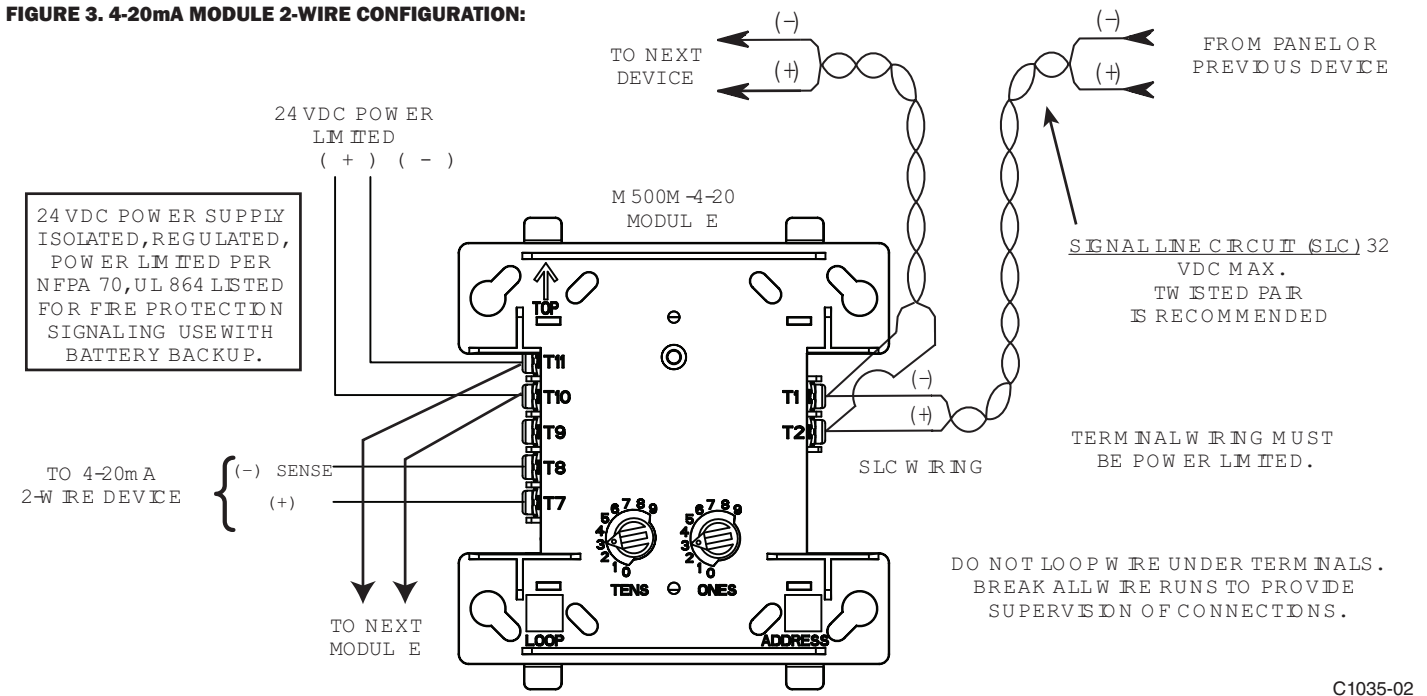


**FIGURE 3. 4-20mA MODULE 2-WIRE CONFIGURATION:**



### THREE-YEAR LIMITED WARRANTY

System Sensor warrants its enclosed smoke detector to be free from defects in materials and workmanship under normal use and service for a period of three years from date of manufacture. System Sensor makes no other express warranty for this smoke detector. No agent, representative, dealer, or employee of the Company has the authority to increase or alter the obligations or limitations of this Warranty. The Company's obligation of this Warranty shall be limited to the repair or replacement of any part of the smoke detector which is found to be defective in materials or workmanship under normal use and service during the three year period commencing with the date of manufacture. After phoning System Sensor's toll free number 800-SENSOR2 (736-7672) for a Return Authorization number, send defective units postage prepaid to: Honeywell, 12220 Rojas

Drive, Suite 700, El Paso TX 79936 USA. Please include a note describing the malfunction and suspected cause of failure. The Company shall not be obligated to repair or replace units which are found to be defective because of damage, unreasonable use, modifications, or alterations occurring after the date of manufacture. In no case shall the Company be liable for any consequential or incidental damages for breach of this or any other Warranty, expressed or implied whatsoever, even if the loss or damage is caused by the Company's negligence or fault. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

### FCC STATEMENT

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.