

Features

- Compatible with conventional 2-wire smoke detectors
- IDC can be wired One (1) Class A or Two (2) Class B
- Monitors presence of 24VDC Aux Power
- SLC Class A, Class X & Class B
- Mounts in a standard 4" or double gang box
- Wiring terminals accessible when mounted in box
- All wiring terminals accept 22 to 12AWG
- Product includes a 5 year warranty



Description

The PAD100-ZM module uses one (1) address on an SLC Loop when monitoring two (2) Class B or one (1) Class A circuit. The module requires and supervises a 24VDC auxiliary power connection. The 24VDC power source must be either a Potter IPA series addressable panel, or a Potter PSN series power supply. The IDC may be wired Class B or Class A which is selectable by an on board DIP switch. The PAD100-ZM employs one red LED to indicate the module's status. In normal condition, the LED flashes when the device is being polled by the control panel. When a device is activated, the LED will flash at a fast rate.

Application

The PAD100-ZM is compatible with Potter's IPA series addressable fire alarm control panels. The PAD100-ZM is used to supervise a zone of conventional 2-wire smoke detectors on an Initiating Device Circuit (IDC). The PAD100-ZM is capable of monitoring two (2) separate Class B or one (1) Class A circuits.

Setting the Address

Each addressable SLC device must be assigned an address. The address is set using the DIP switch located on the PAD100-ZM. When the PAD100-ZM is used to monitor two individual Class B circuits a single device address is assigned, each input is then identified as a sub-point of the module address. For example, if the address number is assigned as "8", the B1 input will be "8.1" and the B2 input will be "8.2".

Before connecting a device to the SLC loop, take the following precautions to prevent potential damage to the panel or device:

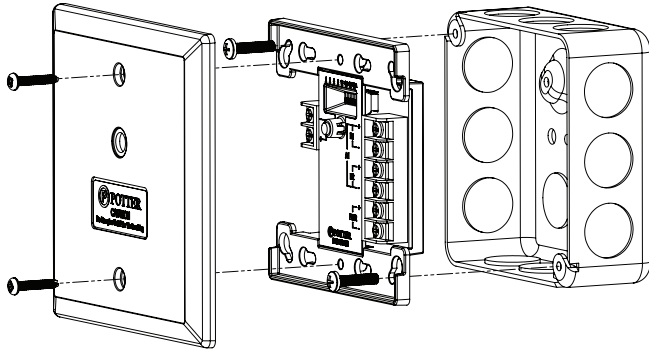
1. Power to the device is removed.
2. Field wiring is correctly installed.
3. Field wiring has no open or short circuits.

Technical Specifications

| | |
|---|---|
| Operating Voltage | 24.0V |
| Max SLC Standby Current | 240 μ A |
| Max SLC Alarm Current | 240 μ A |
| Aux Power Required | 19 - 28V |
| Max Detector Standby Current of IDC at 24 VDC | 1mA |
| Max Module Alarm Current of IDC at 24 VDC | 50mA |
| Max Wiring Resistance of IDC | 100 Ω |
| Max Wiring Capacitance of IDC | 1 μ F |
| EOL Resistor | 5.1K Ω |
| Operating Temperature Range | 32 to 120°F (0 to 49°C) |
| Operating Humidity Range | 0 to 93% (non-condensing) |
| Max no. of Module Per Loop | 127 units |
| Dimensions | 4.17" (106mm)L \times 4.17" (106mm)W \times 1.14" (29mm)D |
| Mounting Options | Standard 4" Square or Double Gang Box |
| Shipping Weight | 0.6 lbs |

Installation Using Compatible Electrical Box

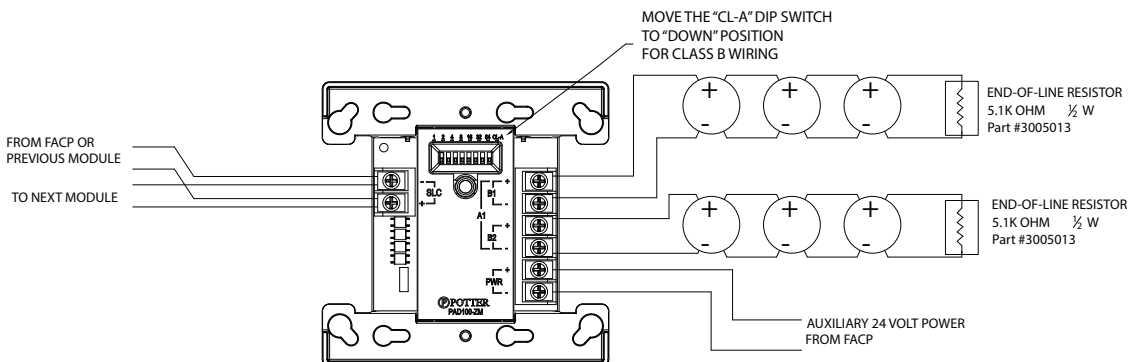
Fig 1



Wiring Diagrams

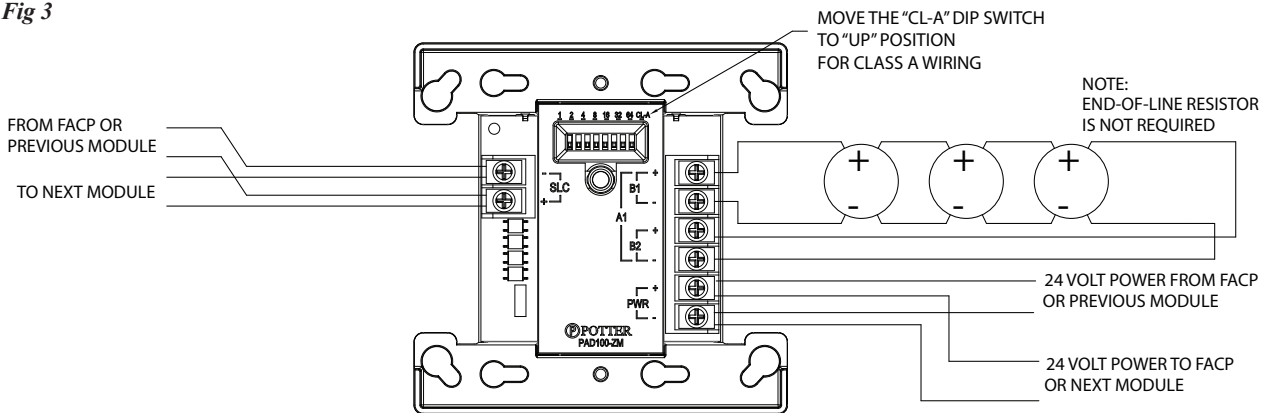
Typical Class B Wiring Diagram

Fig 2



Typical Class A Wiring Diagram

Fig 3



Ordering Information

| Model | Description | Stock No. |
|-----------|--------------------------|-----------|
| PAD100-ZM | Conventional Zone Module | 3992706 |

Compatible 2-Wire Smoke Detectors & Bases

| Detector Model | Identifier | Base Model | Identifier |
|---|------------|------------|------------|
| SYSTEM SENSOR (Brk) (Max. No. Of Detectors Per Zone is 10) | | | |
| 1400 | A | N/A | N/A |
| 2400 | A | N/A | N/A |
| 2400TH | A | N/A | N/A |
| 2W-B | A | N/A | N/A |
| 2WT-B | A | N/A | N/A |
| DETECTION SYSTEM (Max. No. Of Detectors Per Zone is 11) | | | |
| DS250 | A | MB2W/MB2WL | A |
| DS250TH | A | MB2W/MB2WL | A |
| ESL (Max. No. Of Detectors Per Zone is 20) | | | |
| 611U | S10 | 601U | S00 |
| 611UD | S10 | 601U | S00 |
| 611UT | S10 | 601U | S00 |
| 612U | S10 | 601U | S00 |
| 612UD | S10 | 601U | S00 |
| 613U5 | S10 | 601U | S00 |
| 611UD | S10 | 609U10 | S00 |
| 612UD | S10 | 609U10 | S00 |
| 425C | S10 | N/A | N/A |
| 425CT | S10 | N/A | N/A |
| HOCHIKI (Max. No. Of Detectors Per Zone is 20) | | | |
| SLR-24 | HD-3 | HSC-221R | HB-71 |
| | | HSB-221 | HB-54 |
| | | HSB-221N | HB-54 |
| | | NS6-221 | |
| | | NS4-221 | |
| | | NS6-220 | HB-3 |
| SLR-24H | HD-3 | HSC-221R | HB-71 |
| | | HSB-221 | HB-54 |
| | | HSB-221N | HB-54 |
| | | NS6-221 | |
| | | NS4-221 | |
| SIJ-24 | HD-3 | HSC-221R | HB-71 |
| | | HSB-221 | HB-54 |
| | | HSB-221N | HB-54 |
| | | NS6-221 | |
| | | NS4-221 | |

| Detector Model | Identifier | Base Model | Identifier |
|--|----------------|------------|-----------------|
| FENWAL (Max. No. Of Detectors Per Zone is 14) | | | |
| CPD-7051 | I51FE1 | 2-WIRE | FE51A |
| PSD-7155 | P55FE1 | 2WRLT | FE52A |
| PSD-7156 | P56FE1 | 2WRB | FE55A |
| All of the above Fenwal detectors and bases can be used in any combination. Retrofit Base Adaptor 70-501000-003, Identifier MAFE1 (for series 70-201000 Bases, Models -001, -002, -003, and -005). Duct Housing with Detector Base DH-51, Identifier DH22FE5 (for CPD-7051 and PSD-7155 detectors only). | | | |
| POTTER (Max. No. Of Detectors Per Zone is 25) | | | |
| PS-24 | HD-3 (HOCHIKI) | SB-46 | HB-71(HOCHIKI) |
| | | | HB-54 (HOCHIKI) |
| | | SB-93 | HB-3 (HOCHIKI) |
| PS-24H | HD-3 (HOCHIKI) | SB-46 | HB-71 (HOCHIKI) |
| | | | HB-54 (HOCHIKI) |
| IS-24 | HD-3 (HOCHIKI) | SB-46 | HB-71 (HOCHIKI) |
| | | | HB-54 (HOCHIKI) |
| NOTE: If using a mix of System Sensor and other smoke detectors, a maximum of 20 detectors shall be permitted. | | | |