Description

Monitor ZAMs

With MX Digital addressable monitor ZAMs, a single addressable point can monitor a conventional initiating device circuit (IDC) fitted with 2-wire initiating devices. See Monitor ZAM two-wire initiating device compatibility reference chart for compatible devices.

Figure 1: 4090-5260 ZAM Package

Features

MX Digital addressable communications compatible Monitor Zone Adapter Modules (ZAM) provide an addressable interface to a conventional initiating device circuit (IDC)

Monitor ZAM features:

- Class B monitoring for 2-wire initiating devices.
- Zone device power is supplied separately from a fire alarm control panel or other UL listed remote power supply.
- Choice of hard (DIP switch) or soft (Digital Enrollment) addressing.
- See device compatibility list Monitor ZAM two-wire initiating device compatibility reference chart
- For use with the following Simplex fire alarm control panels:
  - Model Series 2050, 2250, 4007ES, 4010ES, and 4100ES fire alarm control panels with MX communications.
- Compact, sealed construction:
  - Enclosed design that minimizes dust infiltration.
  - Mounts in a standard 4 in. (102 mm) square electrical box.
  - Screw terminals for wiring connections.
  - Visible LED flashes to indicate communications.
  - Optional covers are available so that the LED can be viewed after installation.
- UL listed to Standard 864.

Specifications

Table 1: Specifications

Specification	Rating
Communications	MX Digital addressable, 1 address for each device.
ZAM input voltage	21.9 to 26.4 VDC (nominal 24 VDC)
ZAM loop current at 24 VDC	Supervisory = 0.28 mA maximum& Alarm = 60 mA maximum, total device requirements determines actual current.
Individual ZAM current	Standby = 0.049 mA, Alarm 5.82 mA
Zone supervision resistor	4.7 KΩ, 1/2 W
Wire connections	Screw terminals for in / out wiring, 18 to 14 AWG wire (0.82 to 2.08 mm^2)
MX Digital wiring	Up to 6560 ft (2000 m) from the fire alarm control panel.
	Up to 10,000 ft (3048 m) total wiring distance (including T-Taps).
Dimensions, H x W x D	4 1/8 in. x 4 in. x 1 3/8 in. (105 mm x 102 mm x 35 mm)
Housing material	Black thermoplastic.
Mounting plate material	Sheet metal, galvanized.
Temperature range	32° to 120° F (0° to 49° C) intended for indoor operation.
Humidity range	Up to 93% RH at 90° F (32° C)

Product selection

Table 2: ZAM module

SKU	Description
4090-5260	Zone Adapter Module for Class B monitoring of 2-wire initiating devices.

Table 3: Optional adapter and trim plates

SKU	Description	
4090-9813	Adapter plate to fit 4 11/16 in. (119 mm) square electrical box.	
4090-9801	For a semi-flush mounted box.	Galvanized steel trim plate with LED viewing window, includes mounting screws.
4090-9802	For a surface mounted box.	

Table 4: End-of-line resistor harness

Model	Reference No.	Description
4081-9003	733-896	4.7 kΩ, one, end-of-line resistor harness.

Monitor ZAM two-wire initiating device compatibility reference chart

Table 5: Compatibility reference chart

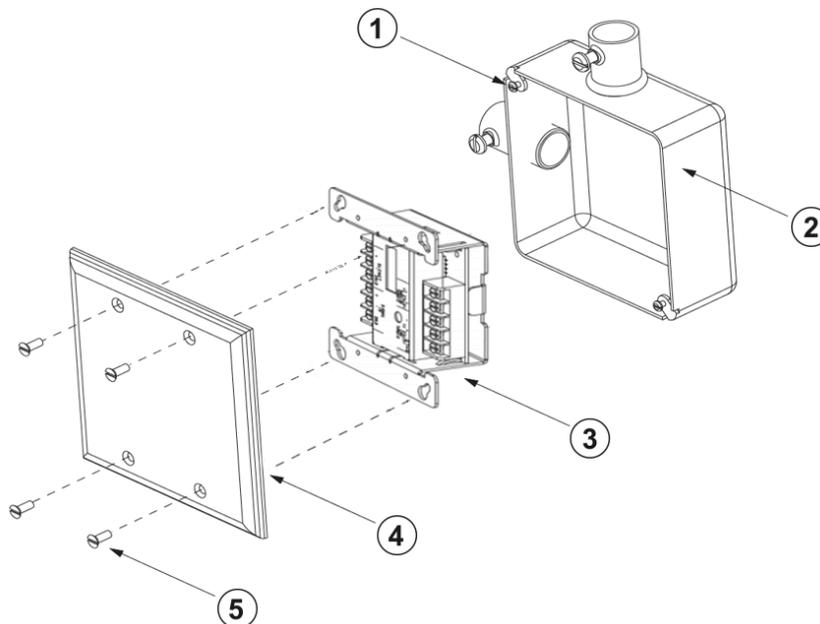| Description	SKU	Compatible bases	Maximum quantity
Electronic heat detectors.	4098-9401 4098-9402 4098-9403 4098-9404	No base required	28 See note 3.
	4098-9612 4098-9613 4098-9614 4098-9615	4098-9788 4098-9684 4098-9683	28 See note 3.
	601H-RF-UL 601H-F-UL	5B	20
	4098-5610 4098-5611 4098-5612 4098-5613	4098-5261	28
Photoelectric smoke detectors.	4098-9601 4098-9602	4098-9788 4098-9683	28
	601P-UL 601P-UL-L	5B	20
	4098-5601	4098-5261	28
Multi-sensor photoelectric smoke and heat detectors.	601PH-UL 601PH-UL-L	5B	20
	4098-5602	4098-5261	28
Flame detectors.	601F-UL-L	5B	20
Duct detector housing with 4098-9601 detector.	4098-9685	n/a	20
	4098-9688	n/a	1

Note:

1. For additional information, refer to *4090-5260 Monitor ZAM with DIP Switch, Installation Instructions 579-1426*.

2. For additional compatible devices, contact your local Simplex product supplier.

3. The Heat Detector models 4098-9401 through 4098-9404 and 4098-9612 through 4098-9615 cannot be used if the initiating circuits are programmed for Style C operation.
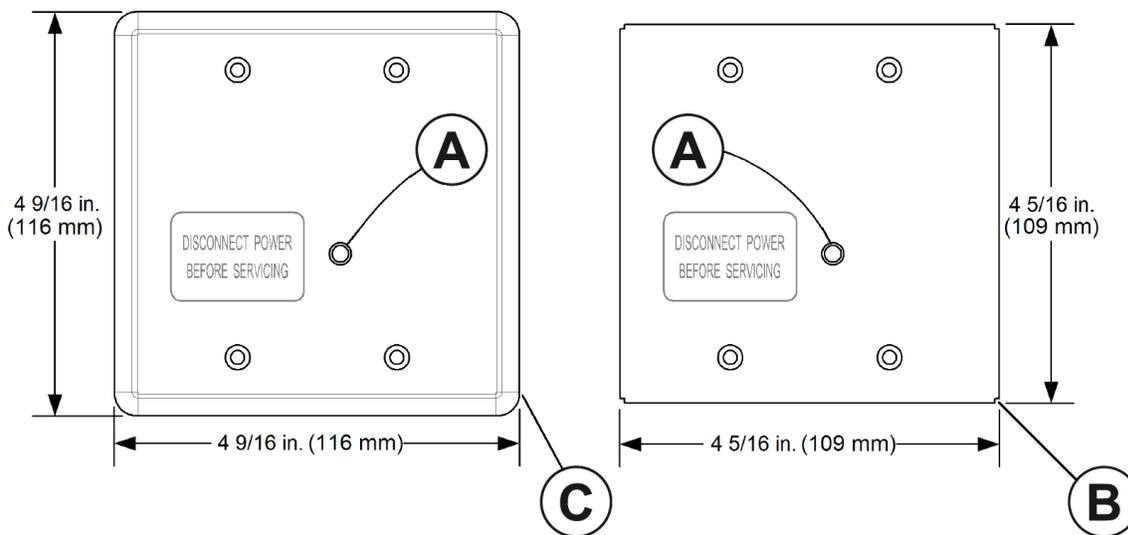
ZAM mounting information

Mounting the 4090-5260 ZAM.

Figure 2: Monitor ZAM mechanical installation

Callout	Description
1	Number 8/32 panhead screw. Not supplied.
2	UL listed 4 in. (10.16 cm) square and 2 in. (5.08 cm) deep back box. Not supplied.
3	Monitor ZAM assembly.
4	Standard UL listed 2 gang back box cover. Not supplied.
5	Number 6/32 flathead screw. Quantity: 4. Not supplied.

The following images are of the 4090-9801 trim plate for semi-flush mounted boxes and the 4090-9802 trim plate for surface mounted boxes.

Figure 3: Optional trim plates for visible LED

Callout	Description
A	Light pipe for LED viewing
B	4090-9802, trim plate for surface mounted box.
C	4090-9801, trim plate for semi-flush mounted box.