AUTOCALL

*UL, ULC Approved**

Features

IDNet communications compatible Monitor ZAMs (Zone Adapter Modules) provide an addressable interface to a conventional initiating device circuit (IDC)

Available for Class B or Class A IDCs:

- A4090-9101, Class B monitoring for 2-wire or 4-wire initiating devices, with power reset connections for 4-wire devices
- A4090-9106, Class A monitoring for 2-wire initiating devices
- Zone device power is supplied separately (typically from fire alarm control panel)
- Refer to device compatibility list Monitor ZAM Two-Wire Initiating Device Compatibility Reference Chart on page 3

For use with the following Autocall fire alarm control panels:

- Model Series 4007ES, 4010ES, and 4100ES fire alarm control panels using IDNet communications

Compact, sealed construction:

- Enclosed design minimizes dust infiltration
- Mounts in standard 4" (102 mm) square electrical box
- Screw terminals for wiring connections
- Visible LED flashes to indicate communications
- Optional covers are available to allow LED to be viewed after installation
- UL listed to Standard 864

Description

IDNet Monitor ZAMs

IDNet Monitor ZAMs allow a single addressable point to monitor a conventional initiating device circuit (IDC) populated with 2-wire or 4-wire initiating devices. Refer to Monitor ZAM Two-Wire Initiating Device Compatibility Reference Chart on page 3 for compatible devices.
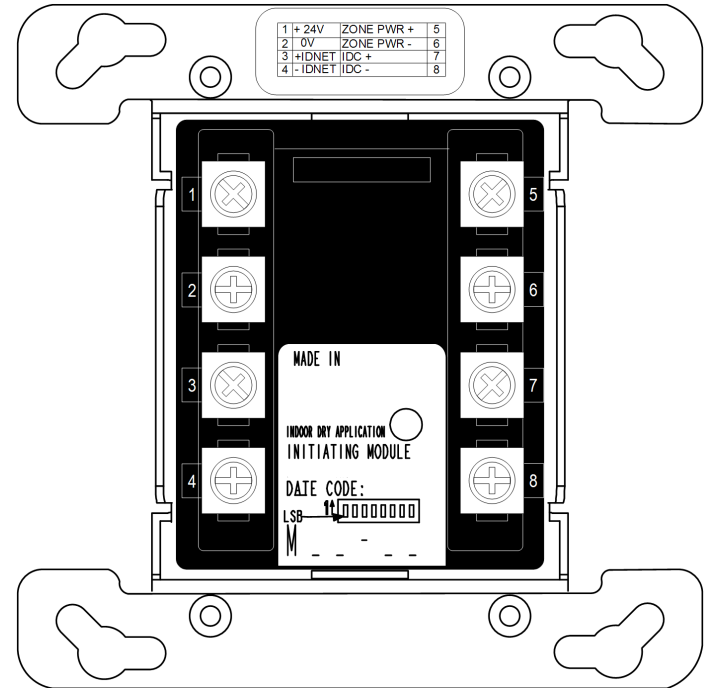

1	+ 24V	ZONE PWR +	5
2	0V	ZONE PWR -	6
3	+IDNET	IDC +	7
4	- IDNET	IDC -	8

Fig 1: A4090 Series ZAM Package (shown approximately 1/2 size)

Specifications

<p style="text-align: center;">Table 1: Specifications</p>

Specification	Rating
Communications	IDNet, 1 address per device
ZAM Input Voltage	18.9 to 32 VDC (nominal 24 VDC)
ZAM Current @ 24 VDC	Supervisory = 16 mA maximum Alarm = 72 mA maximum (actual current is determined by total device requirements)
A4090-9101 ZAM, Zone Supervision Resistor	3.3 kΩ, 1 W
Wire Connections	Screw terminals for in/out wiring, 18 to 14 AWG wire (0.82 to 2.08 mm^2)
IDNet Wiring	Up to 2500 ft (762 m) from fire alarm control panel
	Up to 10,000 ft (3048 m) total wiring distance (including T-Taps)
	Compatible with Autocall, A2081-9044 Overvoltage Protectors
Dimensions	4 ⅛" H x 4 ⅛" W x 1 ⅜" D (105 mm x 105 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 100° F (38° C)

Product Selection

<p style="text-align: center;">Table 2: ZAM Modules</p>

SKU	Description
A4090-9101	Zone Adapter Module for Class B monitoring of 2-wire or 4-wire initiating devices; with power reset connections for 4-wire devices
A4090-9106	Zone Adapter Module for Class A monitoring of 2-wire initiating devices

<p style="text-align: center;">Table 3: Optional Adapter and Trim Plates</p>

SKU	Description	
A4090-9813	Adapter plate to fit 4 11⁄16" (119 mm) square electrical box	
A4090-9801	For semi-flush mounted box	Trim plate with LED viewing window, includes mounting screws; galvanized steel
A4090-9802	For surface mounted box	

<p style="text-align: center;">Table 4: End-of-Line Resistor Harness</p>

SKU	Reference No.	Description
A4081-9002	733-893AC	3.3 kΩ, 1 End-of-Line Resistor Harness for A4090-9101, Class B zone monitoring

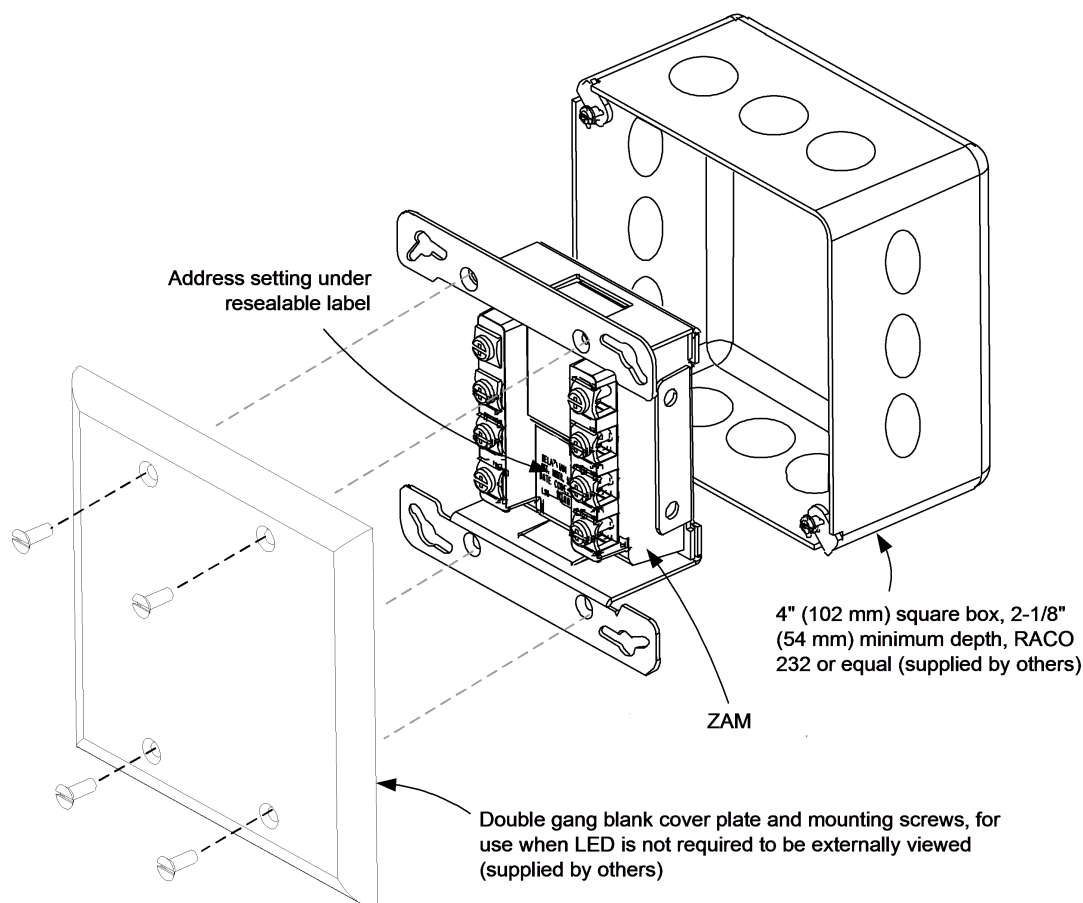## Monitor ZAM Two-Wire Initiating Device Compatibility Reference Chart

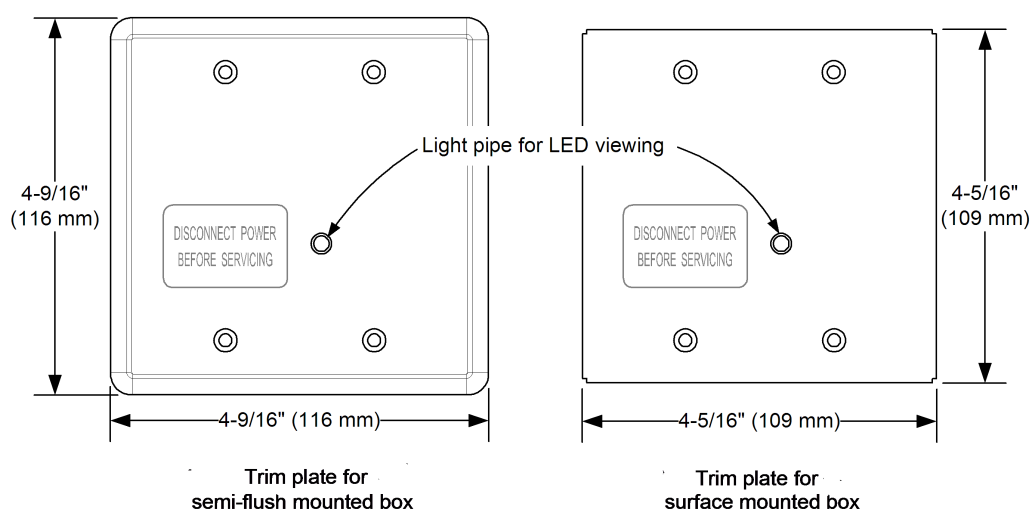| Description	SKU	Compatible Bases	Maximum Quantity
Electronic heat detectors	A4098-9401 A4098-9402 A4098-9403 A4098-9403 A4098-9404	No base required	20
	A4098-9612	A4098-9788	20
	A4098-9613	A4098-9684	
	A4098-9614 A4098-9615	A4098-9683	1
Photoelectric smoke detectors	A4098-9601	A4098-9788	20
	A4098-9602 A4098-9605	A4098-9683	1
Duct detector housing with A4098-9601 detector	A4098-9685	N.A.	20

Note:

1. Four-wire detector operation is compatible with conventional listed contact closure initiating devices.
2. Four-wire detectors require detector voltage to be connected to resettable power terminals.
3. Refer to installation instructions 574-183AC and field wiring diagram 842-073 for additional information.
4. Contact your local Autocall product supplier for additional compatible devices.

ZAM Mounting Information

The mounting of the A4090-9101/A4090-9106 ZAM. The A4090-9801 Trim plate for semi-flush mounted boxes and the A4090-9802 trim plate for surface mounted boxes are also illustrated.

Address setting under resealable label

4" (102 mm) square box, 2-1/8" (54 mm) minimum depth, RACO 232 or equal (supplied by others)

ZAM

Double gang blank cover plate and mounting screws, for use when LED is not required to be externally viewed (supplied by others)

Mounting Reference, Double Gang Blank Cover Plate

4-9/16" (116 mm)

Light pipe for LED viewing

DISCONNECT POWER BEFORE SERVICING

DISCONNECT POWER BEFORE SERVICING

4-5/16" (109 mm)

4-9/16" (116 mm)

4-5/16" (109 mm)

Trim plate for semi-flush mounted box

Trim plate for surface mounted box

Optional Trim Plates for Visible LED