Simplex

*UL Listed**

Datasheet

MX Technology Addressable Devices

Dual Input IAM (Individual Addressable Module) Model 4090-5261

Description

Individual addressable modules (IAMs)

IAMs receive both power and communications from a two-wire MX circuit. They provide location specific addressability to a single initiating device, such as single station smoke detector alarm contacts or heat detector contacts or multiple devices at the same location, by monitoring normally open dry contacts and the wiring to an end-of-line resistor.

Features

MX Digital addressable communications supply both data and power over a single wire pair to provide the following:

- Two Class B or one Class A supervised and power-limited detection circuits for monitoring normally open or normally closed contacts.
- Maximum resistance of wiring distance from IAM to supervision resistors is 10 ohms.
- Choice of hard (DIP switch) or soft (Digital Enrollment) addressing.
- For use in indoor locations up to 120°F (49°C) such as attic spaces or similar applications.

For use with the following Simplex fire alarm control units (FACUs):

Model series 2050, 2250, 4007ES, 4010ES, and 4100ES FACUs with MX communications.

Model 4090-5261 has the following features:

- Enclosed design minimizes dust infiltration.
- Mounts in 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.

Multiple operation modes are available and are selectable at the FACU:

- Contact closure status can be tracked.
- Momentary contact closure conditions can be selected at the panel to be latched or tracked.

UL listed to Standard 864

Operation

Contact change

A change in the status of the monitored contact initiates an alarm or other response as programmed at the FACU. An opening in the monitored circuit wiring causes a trouble to be reported.

Panel selections

You can make selections at the FACU to maintain the alarm condition if the initiating device contacts are momentary, such as from a rate-of-rise heat detector or to track the device contact status.



Figure 1: 4090-5261 dual input IAM

Specifications

Table 1: Electrical

Specification	Rating
Power and communications	MX, one address for each IAM.
Input requirements	Normally open or normally closed, dry contacts.
Wire connections	Screw terminals for in/out wiring, 18 AWG to 14 AWG wire (0.82 mm^2 to 2.08 mm^2).
Installation instructions	579-1460

Table 2: Wiring distances

Specification	Rating
Distance from IAM to contacts	564 ft (172 m) maximum using 16 AWG (1.31 mm²).
Wiring distance reference for each MX Digital channel	6560 ft (2000 m) maximum from FACU.

Table 3: Mechanical

Specification	Rating
Dimensions	4 1/10 in. x 4 1/10 in. x 1 3/10 in. (105mm x 105mm x 35mm) H x W x D
Housing material	Black thermoplastic
Temperature range	32°F to 120°F (0°C to 49°C); intended for indoor operation
Humidity range	Up to 93% RH at 90°F (32°C)

* Additional listings may be applicable; contact your local Simplex product supplier for the latest status. Listings and approvals under Simplex Time Recorder Co. are the property of Tyco Fire Protection Products.

IAM product selection

Table 4: IAM product selection

Model	Description
4090-5261	Dual input supervised IAM, mounted in thermoplastic housing with screw terminals. See the following applicable options.

Table 5: Optional trim plates and mounting bracket

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

Table 6: End-of-line resistor harnesses, ordered separately as required

Model	Description
4081-9020	200 ohms, 1/2 W; UL listed, standard end-of-line resistor harness for N.O. or N.C. contact supervision.
4081-9011	100 ohms, 1/2 W; UL listed, supervision resistor harness.

Mounting information

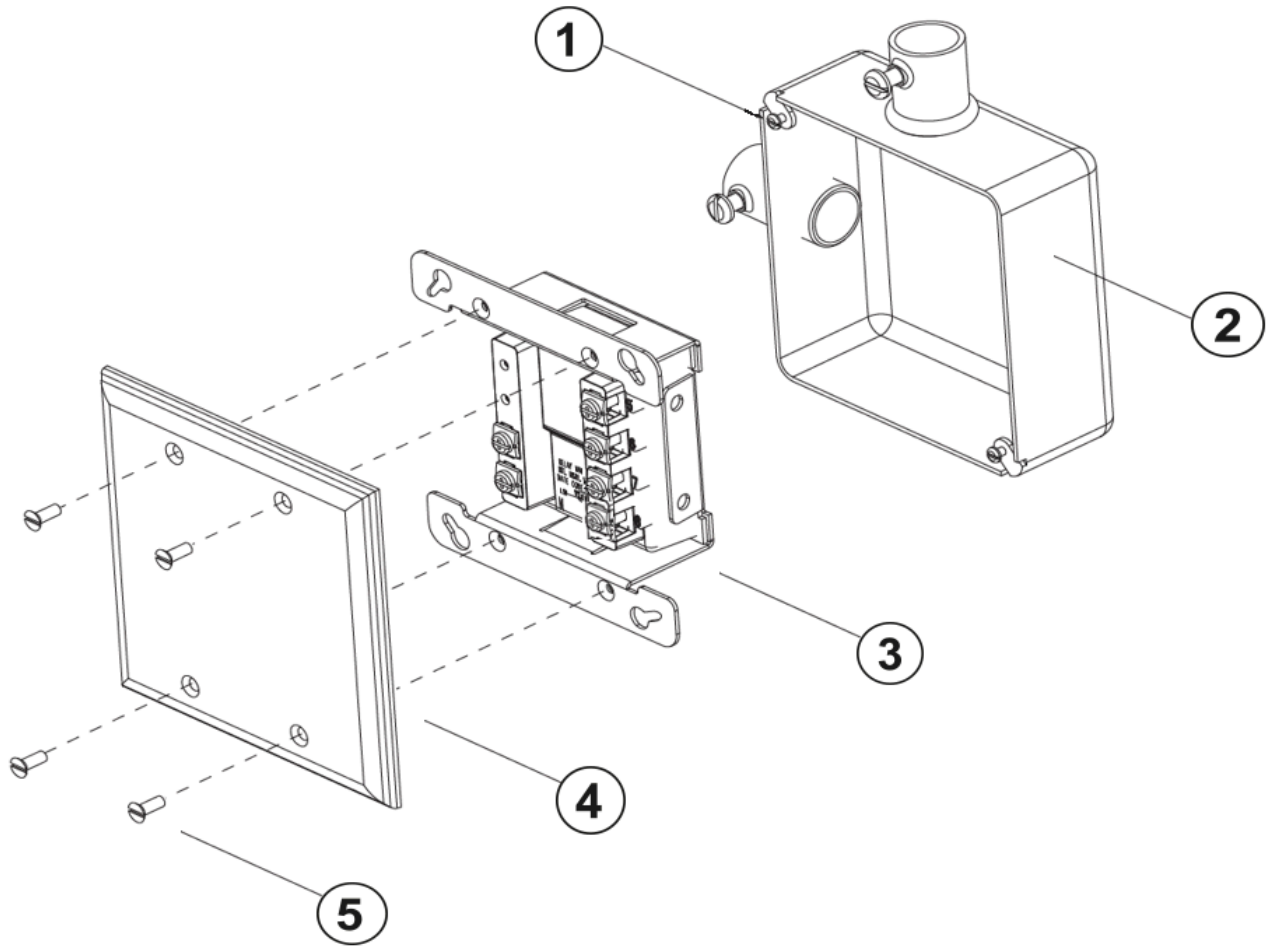


Figure 2: Mounting reference, single gang blank cover plate

Callout	Description
1	Number 8/32 panhead screw. Not supplied.
2	U. L. listed 4 in. square and 2 in. deep back box. Not supplied.
3	Dual input IAM assembly.
4	Standard U. L. listed 2 gang back box cover. Not supplied.
5	Number 6/32 flathead screw. Quantity: 4. Not supplied.

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