5 Simplex

MAPNET II[®] Addressable Fire Alarm Systems

UL ULC* Listed FM Approved

Communicating Devices 2190-9172, Individual Addressable Module (IAM)

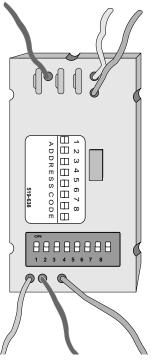
FEATURES:

- Provides Supervised Style B Monitoring of Normally Open, Dry Contacts:
 - Total Wiring Distance From IAM to Supervision Resistor is up to 400 ft (122 m)
 - Internal Supervision Resistor is Provided for Wiring Convenience
 - External Supervision Resistor is Supplied if Remote Resistor Location is Preferred
 - (Contact Monitoring is for Indoor Wiring Applications only)
- MAPNET II[®] Addressable Communications[†]
 Provide both Data and Power Using a Single Twisted, Shielded Wire Pair
- Selectable Latching Operation for Momentary Contacts
- Small Size Allows Single Gang Box Mounting

SPECIFICATIONS:

MAPNET II Input	24 to 40 VDC with Data
	Factorx 1.5
	(maximum of 85 per channel) **
Address Means	Dip Switch, SW 1-7
Latching Operation S	Select Dip Switch, SW 8
Input/Output Connec	ctions Wire Leads, #18 AWG
Dimensions	2 3/8" L x 1 5/16" W x 1/2" D
	(60 mm x 33 mm x 13 mm)
Input Requirements	Normally Open, Dry Contacts
Distance from IAM to	o Contacts400 ft (122 m),
1)	Note: for indoor applications only)
Supervision Resisto	r 100 kΩ, 1/2 w,
	internal or external (supplied)
Temperature	32° F to 120° F
	(0° C to 49° C)
Humidity	85% Non-Condensing
-	@ 86° F (39° C)

- * ULC listed model is 2190-9172C.
- ** When multiple types of devices are on the same MAPNET II channel, consider the 2190-9172 as 1.5 devices for determining channel loading.



2190-9172 SUPERVISED IAM (full size)

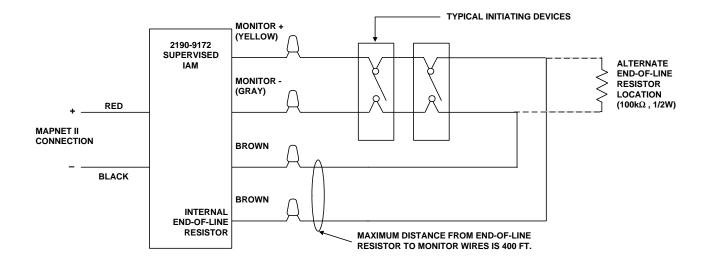
DESCRIPTION:

The 2190-9172 is an individually addressable module that has both its power and its communications supplied by a two wire MAPNET II[†] circuit. It provides location specific addressability to a single initiating device or multiple devices by monitoring normally open, dry contacts. Closure of the monitored contacts initiates an alarm. An open in the initiating circuitry wiring will cause a trouble to be reported at the Fire Alarm Control Panel.

If the initiating device contacts are momentary, such as from a rate-of rise heat detector, enabling the latch feature allows the IAM to latch the alarm condition until the system is reset. For applications where the contact closure latches, or if its condition needs to be tracked at the control panel, non-latching operation may be enabled.

† MAPNET addressable communications is protected by U.S. Patent No. 4,796,025.

TYPICAL WIRING DIAGRAM



For detailed installation information, refer to Simplex publication PER-21-025 (574-675).

COMPATIBLE SIMPLEX FIRE ALARM CONTROL PANELS	REFER TO SIMPLEX DATA SHEET
4100 Fire Alarm Control Panels	S4100-0013, and S4100-0002
4100 Universal Transponder (U.T.)	S4100-0006
4100 MINIPLEX® Transponder	S4100-0015
4020 Fire Alarm Control Panels	S4020-0001
4120 Network Nodes (with MAPNET II Capabilities)	S4120-0001