

Product Selection

Model	Description
4090-9118	Relay IAM with T-Sense

Optional Adapter and Trim Plates

Model	Description	
4090-9813	Adapter plate to fit 4 1 ¹ / ₁₆ " (119 mm) square electrical box	
4090-9801	For semi-flush mounted box	Trim Plate, galvanized steel, with LED viewing window; includes mounting screws
4090-9802	For surface mounted box	

End-of-Line Resistor Harnesses (ordered separately as required)

Model	Reference No.	Description
4081-9003	733-896	4.7 k Ω , 1/2 W
4081-9005	733-984	1.8 k Ω , 1/2 W

Use for current limited monitoring, refer to diagram below

T-Sense Input Operating Modes

Common Circuit Status Modes

Circuit Status	Device Status	Panel Display
Normal	Switches open	Normal
Open circuit	Wiring discontinuity	Trouble

Damper Position Monitoring Status Modes

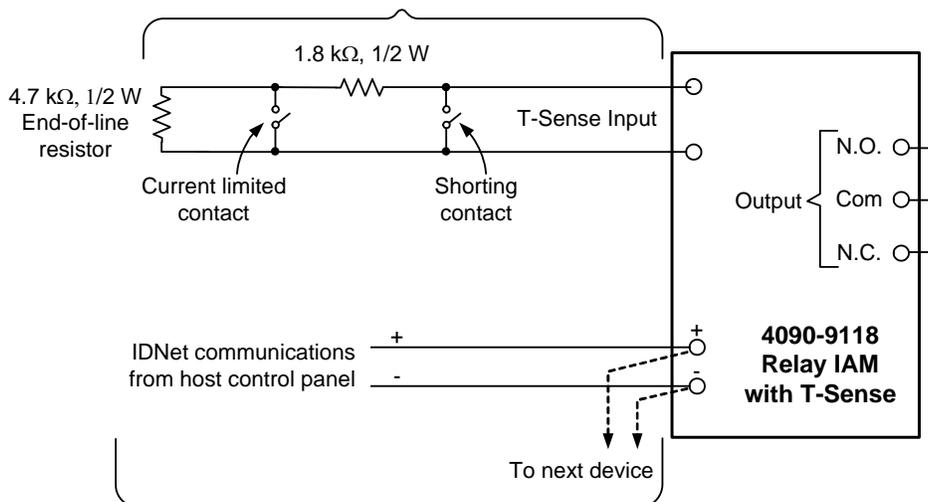
Circuit Status	Device Status	Typical Panel Display
Short	Switch A closed	Damper Closed
Current Limited	Switch B closed	Damper Open

Waterflow and Tamper Switch Monitoring Status Modes

Circuit Status	Device Status	Panel Display
Short	Waterflow switch closed	Fire Alarm
Current Limited	Tamper switch closed	Supervisory

Wiring Reference

Maximum distance to contacts is 500 ft (152 m) (input is for indoor wiring only)



For Fire Alarm applications, locate loads within 3 ft (1 m) of contacts

Power Limited Contact Ratings:

2 A @ 30 VDC, resistive loads
1 A @ 30 VDC, inductive loads

Non-Power Limited Contact Ratings:

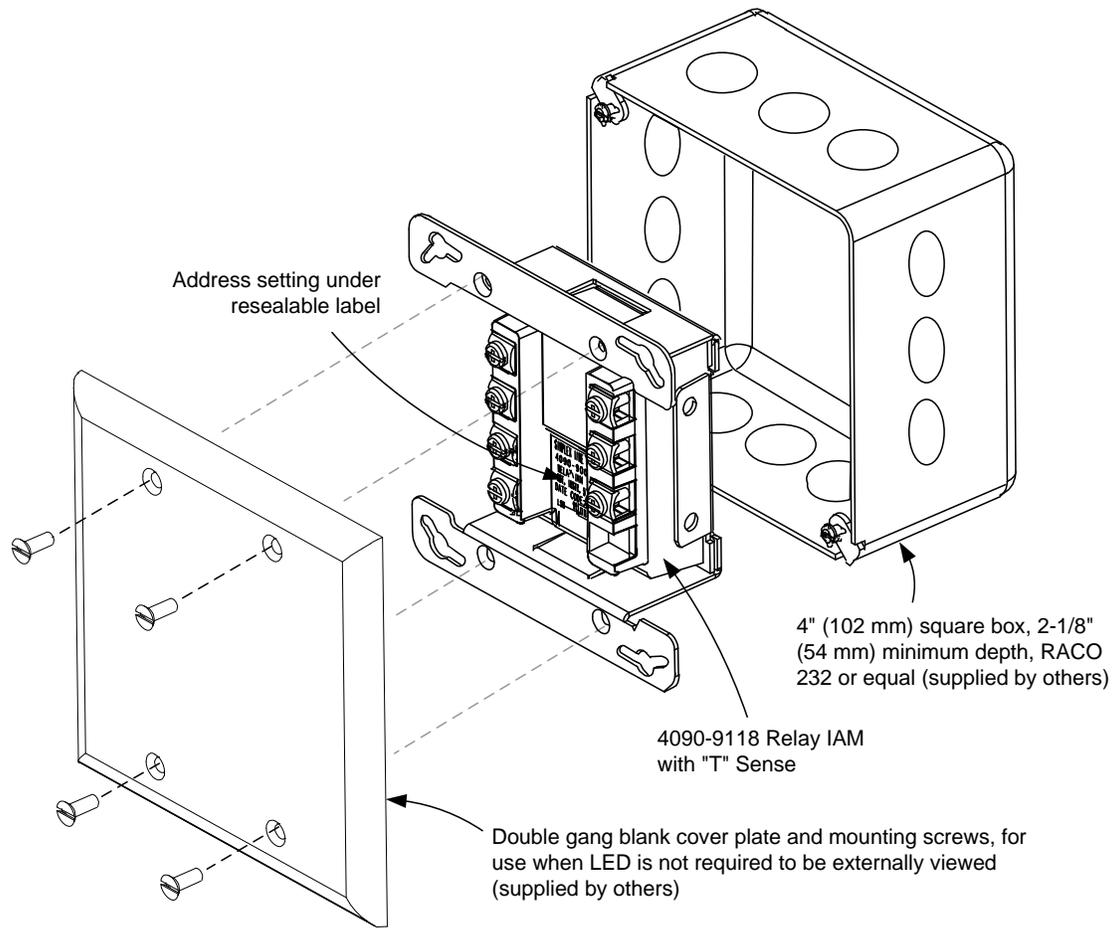
0.5 A @ 120 VAC, resistive loads
0.25 A @ 120 VAC, inductive loads
(refer to specifications for additional information)

IDNet Wiring Distances:

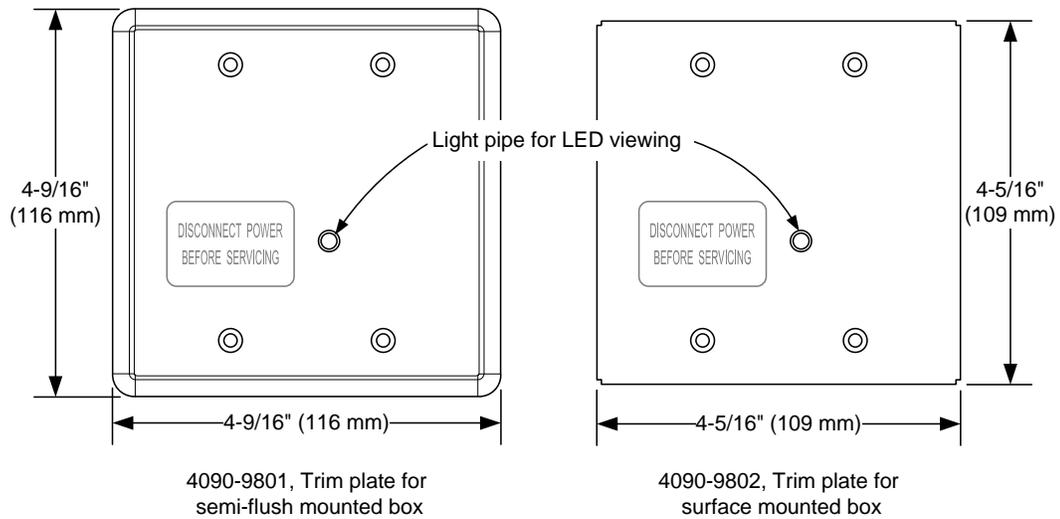
1. Up to 2500 ft (762 m) from host control panel.
2. Up to 10,000 ft (3048 m) total wiring distance, including "T" taps.

NOTE: Refer to Installation Instructions 574-874 for detailed installation information.

Mounting Information



Mounting Reference, Double Gang Blank Cover Plate



Optional Trim Plates for Visible LED

Specifications

Electrical

Communications	IDNet communications, one address		
Power	Consumes one unit load, power supplied from a compatible IDNet communications channel		
Point Allocation Reference	Point Type	TRIAM	
	I/O Point Usage per Panel	2; 1 for relay, 1 for input	
	Public Points Usage	up to 3; 1 for relay, 1 for input, 1 for trouble; for points mapped to the Fire Alarm Network	
Input Requirements	Normally open dry contacts		
	Up to 500 ft (152 m) total distance from Relay IAM		
	For indoor wiring applications only		
Input Supervision Resistors	Two required, refer to Installation Instructions 574-874 for additional information and wiring detail		
Wire Connections	Screw terminals for input and output wiring, 18 to 14 AWG wire (0.82 mm ² to 2.08 mm ²)		
Relay Contact Ratings* Form C (SPDT) (not rated for incandescent switching)	Power-Limited	2 A @ 30 VDC, resistive	from listed fire alarm supply
		1 A @ 30 VDC, inductive	
	Nonpower-Limited	0.5 A @ 120 VAC, resistive	
		0.25 A @ 120 VAC, inductive	
IDNet Wiring Distance Reference	Up to 2500 ft (762 m) from the fire alarm control panel		
	Up to 10,000 ft (3048 m) total Class B wiring distance including T-Taps		
	Compatible with 2081-9044 Overvoltage Protectors		

* Provide circuit fusing and transient suppression as required per application. DC inductive loads can typically be diode suppressed; 120 VAC loads may require RC networks or varistors, depending on device type. Refer to Installation Instructions 574-874 for additional information.

Mechanical

Dimensions	4-1/8" H x 4-1/8" W x 1-3/8" D (105 mm x 105 mm x 35 mm)
Package	Black thermoplastic housing on metal mounting plate
Temperature	32° to 120° F (0° to 49° C) indoor operation only
Humidity Range	10 to 90% RH at 90° F (32° C)
Installation Instructions	574-874

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