

Features

Dual point operation provides an unsupervised input and a relay output in a single package using only one address:

- Typical applications are for fan control with single unsupervised status feedback monitoring
- For use with Simplex® 4100U Fire Alarm Control Panels operating with software revision 11 or higher and providing IDNet™ communications**

Input/Output details:

- Input provides unsupervised monitoring of normally open, dry contacts
- Total wiring distance to supervised contacts is up to 500 ft (152 m); for indoor wiring applications
- Both data and power are provided by the IDNet communications link over a single wire pair
- Form C relay output is rated 2 A @ 30 VDC, and 1/2 A @ 120 VAC (resistive ratings)

Compact, sealed construction:

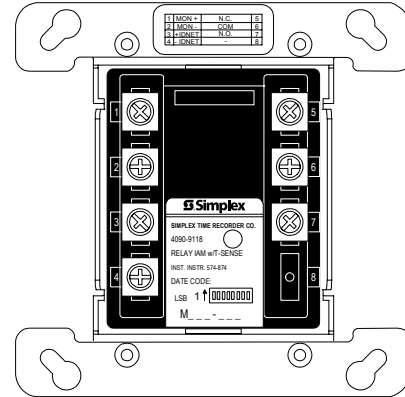
- Enclosed design minimizes dust infiltration
- Mounts in standard 4" square electrical box
- Visible LED flashes to indicate communications
- Screw terminals for wiring connections
- Optional covers are available to allow LED to be viewed after installation

UL Listed to Standard 864

Description

Single Address Dual Point Module. The 4090-9119 Relay IAM allows a Simplex 4100U IDNet communication channel to monitor an unsupervised input contact closure with one point and control an output relay with the other point, both from a compact module requiring a single address. Module power is supplied from the IDNet communications channel eliminating the need for separate power wiring.

Multi-Point Device Description. The input circuit and relay operation are controlled independently and may be disabled separately. Point association is determined at the 4100U host panel. At the 4100U host display, the device address is designated as a single hardware location (such as 1-1). The individual points are considered "sub-points" and are layered underneath (such as 1-1-1 and 1-1-2).



4090-9119 Relay IAM with Unsupervised Input (shown approximately 1/2 size)

Product Selection

Model	Description	
4090-9119	Relay IAM with Unsupervised Input for 4100U Systems	
4090-9801	Optional trim plate with LED viewing window, includes mounting screws; painted beige	For semi-flush mounted box
4090-9802		For surface mounted box

Typical Applications

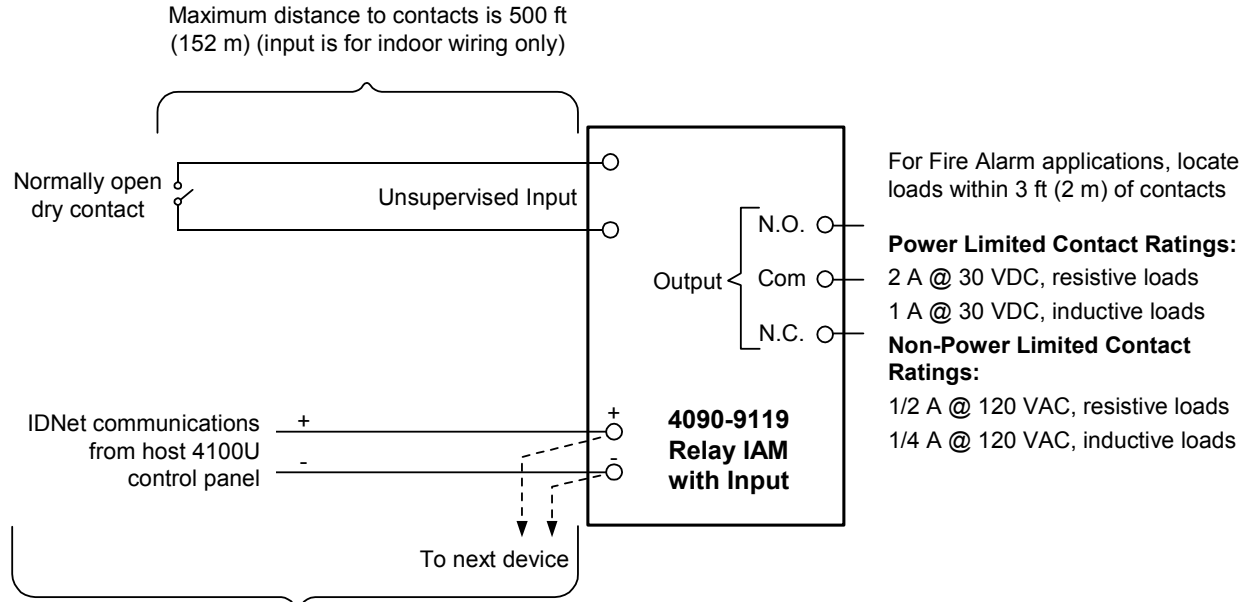
Efficient Package. For smoke control applications, this module provides an efficient package for fan control with single status feedback. The monitor point provides feedback from a single set of unsupervised contacts (such as a sail switch or pressure switch) allowing the host panel to track the result of the requested relay control operation.

General Applications. The monitor and control points can be applied for a variety of associated or independent operations. Flexible programming abilities at the host panel can provide the association logic required for a wide variety of fire or utility operations.

* This product was not approved by MEA (NYC) or CSFM as of document revision date. Additional listings may be applicable, contact your local Simplex® product supplier for the latest status.

** IDNet addressable communications designs are protected by U.S. Patent No. 4,796,025.

Wiring Reference



IDNet Wiring Distances:

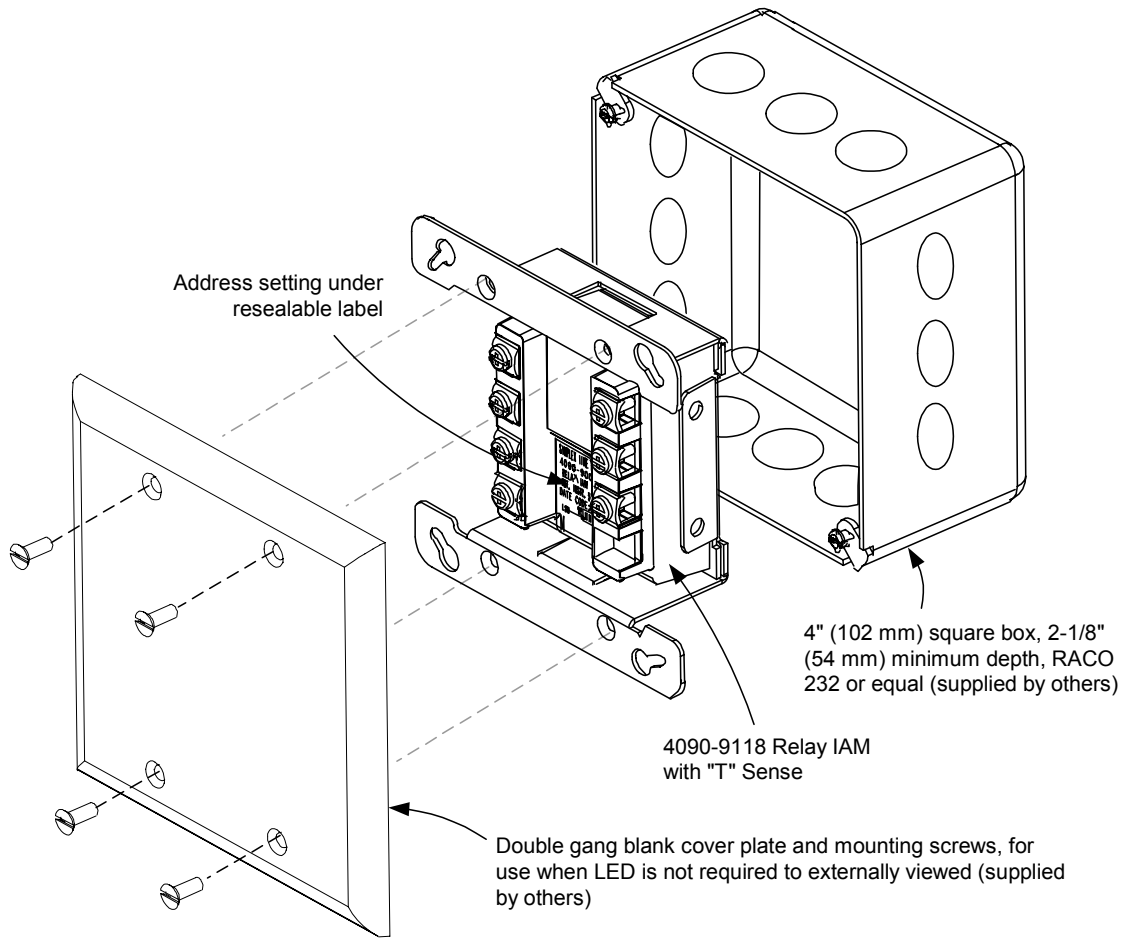
1. Up to 2500 ft (762 m) from host control panel.
2. Up to 10,000 ft (3048 m) total wiring distance, including "T" taps.

NOTE: Refer to Installation Instructions 574-875 for detailed installation information.

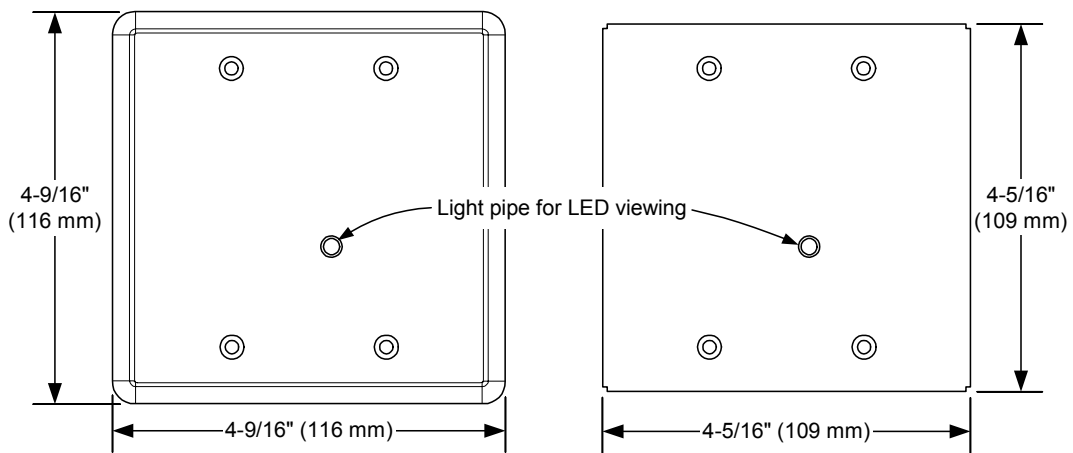
Specifications

Electrical	
Communications	4100U IDNet, one address
Power	Consumes one unit load, power supplied from 4100U IDNet communications
Input Requirements	Normally open dry contacts
	Up to 500 ft (152 m) total distance from Relay IAM
	For indoor wiring applications only
Wire Connections	Screw terminals for input and output wiring, 18 to 14 AWG wire (0.82 mm ² to 3.31 mm ²)
Relay Contact Ratings, Form C (SPDT)	Power-Limited 2 A resistive, 1 A inductive @ 30 VDC
	Nonpower-Limited 1/2 A resistive, 1/4A inductive @ 120 VAC
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
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)

Mounting Information



Mounting Reference, Double Gang Blank Cover Plate



4090-9801, Trim plate for semi-flush mounted box

4090-9802, Trim plate for surface mounted box

Optional Trim Plates for Visible LED

Tyco, Simplex, the Simplex logo, and IDNet are trademarks of Tyco International Services AG or its affiliates in the U.S. and/or other countries.



Westminster, Massachusetts 01441-0001 USA www.simplexnet.com

S4090-0008 4/02

© 2002 Simplex Time Recorder Co. DBA TEPG-US (a Tyco company). All rights reserved.
All specifications and other information shown were current as of document revision date and are subject to change without notice.