FIRECOM™

Technology Protecting Life®

F900-450

XP95A Heat Detector

F900-450 Addressable Heat Detector

Operating Principles

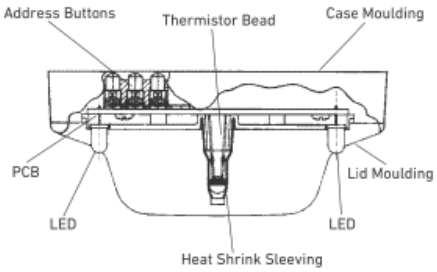
The F900-450 XP95A Heat Detector has a common profile with the F900-550 XP95A Ionization and F900-650 XP95A Photoelectric Smoke Detectors but has a low air flow resistance case made of self-extinguishing white polycarbonate. The detector monitors temperature by using a single thermistor network which provides a voltage output proportional to the external air temperature. It is classified as a combination rate of rise and fixed temperature detector by UL.

Approvals and Listings

Underwriters Laboratories (File No. S6350)
NYC MEA (MEA No. 32-95-E)
California State Fire Marshal (7270-1496:141)
City of Chicago

Electrical Description

The F900-450 is designed to be connected to a two wire loop circuit carrying both data and a 17V to 28V dc supply. The detectors are connected to the incoming and outgoing supply via terminals L1 & L2 in the mounting base. A remote LED indicator requiring not more than 4mA at 5V may be connected between the R+ & R- terminals.



Sectional View F900-450 XP95A Heat Detector

FIRECOM™, INC.
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Electrical Specifications

Specifications are typical and given at 23°C and 50% relative humidity unless otherwise specified.

Detector Type:
Addressable Fixed Temperature Rate of Rise
Ordinary Heat Detector.

Detection Principle:
Linear approximation over temperature range of 25ºC to 90ºC

Sensor:
Silicon NTC Thermistor.

Smoke Sampling Frequency:
Continuous.

Supply Wiring:
Two wire supply.

Terminal Functions:
L1 and L2; supply in and out connections
+R; remote indicator positive connection (internal 2KΩ resistance to supply +ve).
-R; remote indicator negative connection (internal 2KΩ resistance to supply –ve).

Supply Voltage:
17 to 28 Volts dc.

Modulation Voltage at Monitor:
5 to 9 Volts peak to peak

Quiescent Current:
250µA.

Power-up Surge Current:
1mA.

Normal Surge Current:
(synchronized to ADC operation)
310µA.

Duration of power-up Surge Current:
0.3 seconds.

Maximum power-up time:
(measured from application of power and protocol)
4 seconds for communications

Operating Temperature:
0ºC to 49ºC.

Alarm Indicator:
Red light emitting diode (LED).

Alarm LED Current:
2mA.

Remote LED Current:
4mA at 5V (measured across remote load).

Humidity:
(no condensation)
0% to 95% relative humidity.

Wind Speed:
Unaffected in fixed temperature use.

Atmospheric Pressure:
Unaffected.

Dimensions:
Monitor: 4 in x 1.65 in (diameter x height)

Weights:
3.0 oz.

Materials:
Housing: White polycarbonate V-O rated to UL 94.
Terminals: Stainless Steel, nickel plated.

Ordering Information

Model No.	Part No.	Description
F900-450	75004	XP95A Heat Detector

It is our intention to keep the product information up to date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice. For more information contact: FIRECOM, INC.

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