HARRINGTON SIGNAL INC.
FIRE ALARM

XP95 Series Detectors

Photo, Ion, Heat & Multi Detectors

Harrington Signal Inc.
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Description

The XP95 series of fire intelligent detectors are advanced in design, improved in performance, and have unique features that benefit the installer and end users. All have a unobtrusive profile, a zero insertion force, user friendly addressing and extended data and alarm features.

The choosing of a detector follows a well established principle on design. The type of detector selected should depend upon the fire risk, fire load, and type of environment of where the sensor is to be placed.

Smoke detectors are suggested for general use giving the highest level of protection. The Ionization have a high sensitivity to flaming, fast burning fires where as a Photo are more for smoldering type fires; Ionization for property protection, optical sensors for life protection.

The Multisensor is a Photo sensor and will respond well to smoldering fire smoke plus the sensor also senses air temperature, giving it a response to fast burning (Flaming) type fires. The Multi sensor might be recommended for those "Dirty" or "Smokey" environments (recommended the heat detector will only respond once the fire is "well established").

All XP95 sensors are non-polarity sensitive and transmit its analogue value in a Digital format back to the HSI Fire Alarm Control Panel for processing and operation of the detector.

The Addressing of the detectors is accomplished by the removal of the associated binary X-pert card numbered pins or tabs totaling the address required. This unique, patented X-pert card holds the address in the base keeping it entirely free from electronic parts. This plastic card is inserted into the base keeping the address at the base if a detector is replaced, as in servicing requirements.

XP95 Series Sensors
Heat, Ion, Photo, Multi

Features

- Digital Communication
- Non-Polarity sensitive
- Ionization or Photoelectric Smoke Detector
- Electronic Heat detector or Combination Smoke/Heat detector
- Multiple base configurations
- Automatic Type Identification
- Address Confirmation
- XP95 Device Flag
- Parity Error Check
- Interrupt or Alarm Address
- Easily Maintained
- Surface mounted components
- X-pert Card addressing
- Compatible with Harrington Addressable Fire Panels

Ordering Information

Model Number	Part Number	Description
55000-450	55000-450	XP95 Heat Detector
55000-550	55000-550	XP95 Ion Smoke Detector
55000-650	55000-650	XP95 Photo Smoke Detector
55000-886	55000-886	XP95 Multi Sensor Detector
IS804	IS804	4" Mounting Base
IS807	IS807	6" Low Profile Relay Base
IS808	IS808	Isolator Base
IS809	IS809	6" E-Z Fit Mounting Base
IS821	IS821	6" Addressable Sounder Base
IS840	IS840	Pre-Addressed XPert Cards 1-126
IS841	IS841	Blank XPert Cards (per 12)

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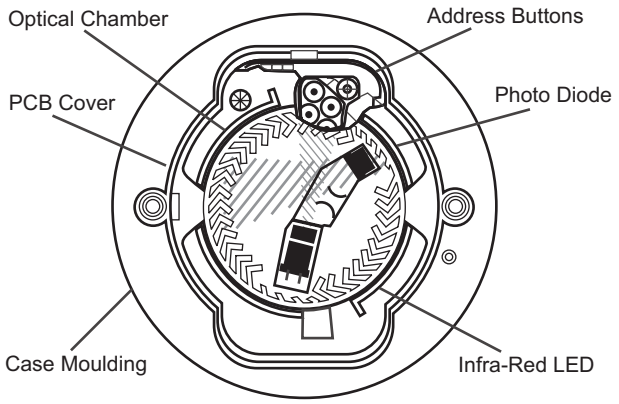
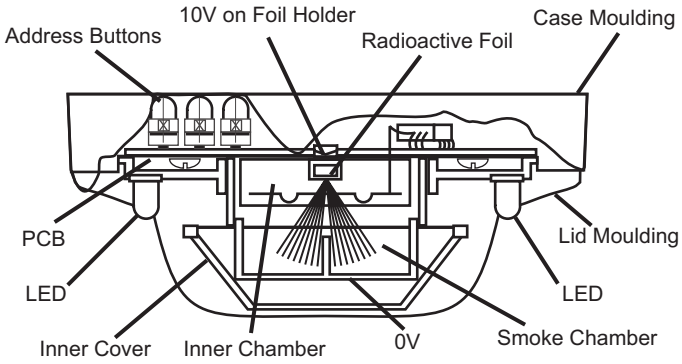
ELELECTRICAL SPECIFICATION:

Standby current	280 micro amps (ion) 340 micro amps (photo) 250 micro amps (thermal) 500 micro amps (multi)
Alarm LED current	2 mA (ion) 4 mA (photo) 2 mA (thermal) 3.5 mA (multi)
Operating Voltage	16-28 VDC
SLC Styles	4, 6, or 7
Supply Wiring insensitive	two-wire supply, polarity
Wind Speed	10 m/s maximum
Dimensions	3.9” x 1.65” (100 mm x 42 mm) photo/io 3.9” x 1.97” (100 mm x 50 mm) heat/multi
Weight	3.7 oz (105 g)
Alarm indicator	Red LED
Termination	Screw Terminals
Radioactive element	XP95 ION only Americium 241 (0.9 microcuries)
Operating Temperature	32°F to +155° F -20°C to +70°C
Humidity	10% to 85% relative humidity



XP95 Photoelectric Smoke Detector Head



XP95 Ionization Smoke Detector Head

Engineering Specification

The alarm sensor shall be capable of several mounting base operation options. The detector shall permit change of detector without rewiring or re-addressing. The base shall have a permanently addressable expert card with the address clearly visible. The detector shall contain integral LED that will latch in when the unit goes into alarm.