



XP95A Ionization Smoke Sensor Head

Model ISH-550

General Description

The XP95A Smoke Sensor Head is molded from white polycarbonate material with wind resistant smoke inlets and an insect resistant screen. Stainless steel wiper contacts connect the sensor to the terminals, which are polarity insensitive, in the mounting base. Inside the sensor case is a circuit board with the sensing system on one side and the address capture, signal processing, and communication electronics on the other side.



The Ionization sensor is a dual chamber, single radioactive source system that provides analog readings, which are converted to a digital signal and transmitted to the FACP for interpretation. The alarm threshold is programmed into the FACP.

Specifications

Sensor Part Number:	55000-550
Chamber Configuration:	Compensating, dual chamber using one single sided ionizing radiation source
Radioactive Isotope:	Americium 241
Sensitivity:	0.9± 0.4%/ft. nominal for 55 counts fixed alarm threshold.
Alarm Indicator:	Red LED
Remote LED Current:	4mA at 5V (measured across remote load)
Wind Speed:	2000 ft./min. (10 m/s) Caution: sensors subjected to continuous velocities above 300 ft./min. may require more frequent maintenance.
Atmospheric Pressure:	Automatic compensation by dual chambers to maintain sensitivity up to a height of 6500 ft.
SLC wiring:	Two wire supply, polarity insensitive
Supply Voltage:	17-28 VDC
Standby Current:	280µA (.000280 A)
Style:	Styles 4, 6, and 7
Terminations:	Stainless steel wiper contacts
End-of-Line Resistor:	None
Storage Temperature:	-20°F to +175°F (-23°C to 80°C)
Operating Temperature:	0°F to 155°F (-18°C to 68°C)
Operating Range:	32°F to 100°F (0°C to 38°)
Humidity:	0% to 95% relative humidity (No condensation)
Dimensions:	Sensor: 4in. X 1.65in. (100mm X 40mm)
Weight:	3.75 oz. (106g)
Mounting:	Snaps onto an XP95A base as listed below
Ceiling Spacing:	30 feet
Materials:	Sensor housing is white polycarbonate V-O rated to UL 94. Terminals are stainless steel, nickel plated
Approvals:	Underwriters Laboratories



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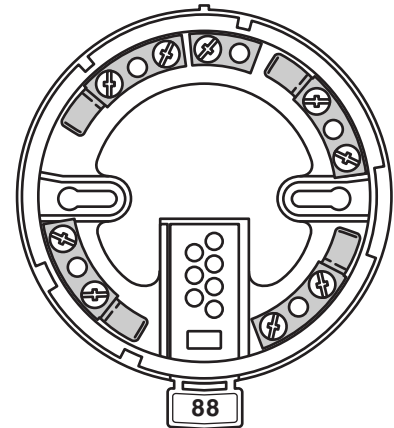
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Bases

Low Profile: Model number LPB-234, P/N 45681-234, 6 in. (150mm) diameter, 0.35 in. (89mm) high

Base w/Sounder: Model number ASB-SDR, P/N MB-SDR-XP95, 6-in. (150mm) diameter with integral sounder

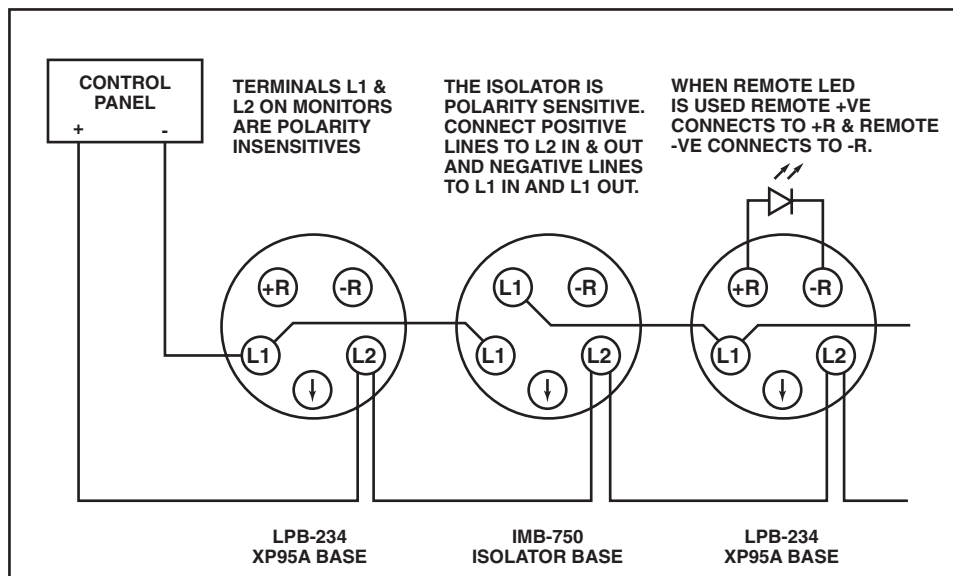
Base w/Relay: Model number ARB-RLY, P/N MB-RLY-XP95, 6-in. (150mm) diameter with integral relay



An XP95 Address Programming Card is included with each base

XP95A Mounting Base with XPERT Card LPB-234

Typical Style 4 Wiring of detector and Isolator bases. Please refer to Section 2 of the Series 3000 installation manual (PN 3000-6000) and the information provided with the device for Style 6 and 7 wiring, addressing and device installation information.



SAFETECH™ International, Inc.
9550 Dice Lane, Lenexa, KS 66215
913.894.4855 Fax 913.894.4899
<http://www.safetechintl.com>

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