



XP95A Photoelectric Smoke Sensor Head

Model PSH-650

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 Photoelectric system operates on the light scattering principle. When smoke enters the optical chamber it scatters light in proportion to the smoke characteristics and density. The sensor's electronics read the analog value, convert that value to a digital signal and communicate the digital signal to the FACP. The alarm threshold is programmed into the FACP.

Specifications

Sensor Part Number:	55000-650
Chamber Configuration:	Horizontal optical bench housing an infrared emitter and sensor arranged radially to detect forward-scattered light
SLC wiring:	Two wire supply, polarity insensitive
Supply Voltage:	17-28 VDC
Standby Current:	280 μ A (.000280 A)
Style:	Styles 4, 6, and 7
Terminations:	Stainless steel wiper contacts
End-of-Line Resistor:	None
Alarm Indicator:	Clear LED emitting red light
Remote LED Current:	4mA at 5V (measured across remote load)
Sensitivity:	2.05 \pm 1.55%/ft. nominal for 55 counts fixed alarm threshold
Wind Speed:	3000 ft./min. (15 m/s) Caution: sensors subjected to continuous velocities above 300 ft./min. may require more frequent maintenance
Atmospheric Pressure:	Unaffected
Storage Temperature:	-20°F to +175°F (-30°C to 80°C)
Operating Temperature:	0°F to +155°F (-18°C to +68°C)
Continuous Operating Range:	32°F to 100°F (0°C to 38°C)
Humidity:	0% to 95% relative humidity (No condensation)
Ceiling Spacing:	30 Ft.
Dimensions:	4in. X 1.65in. (100mm X 40mm)
Weight:	3.75 oz. (102g)
Materials:	Sensor housing is white polycarbonate V-O rated to UL 94. Terminals are stainless steel, nickel plated
Approvals:	Underwriters Laboratories

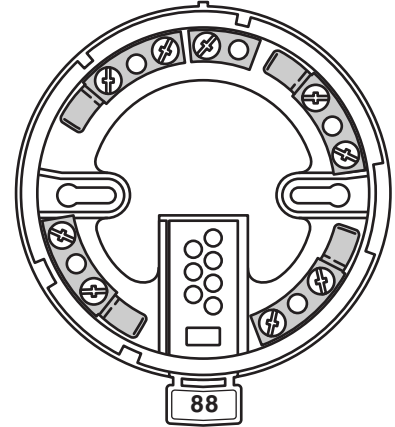


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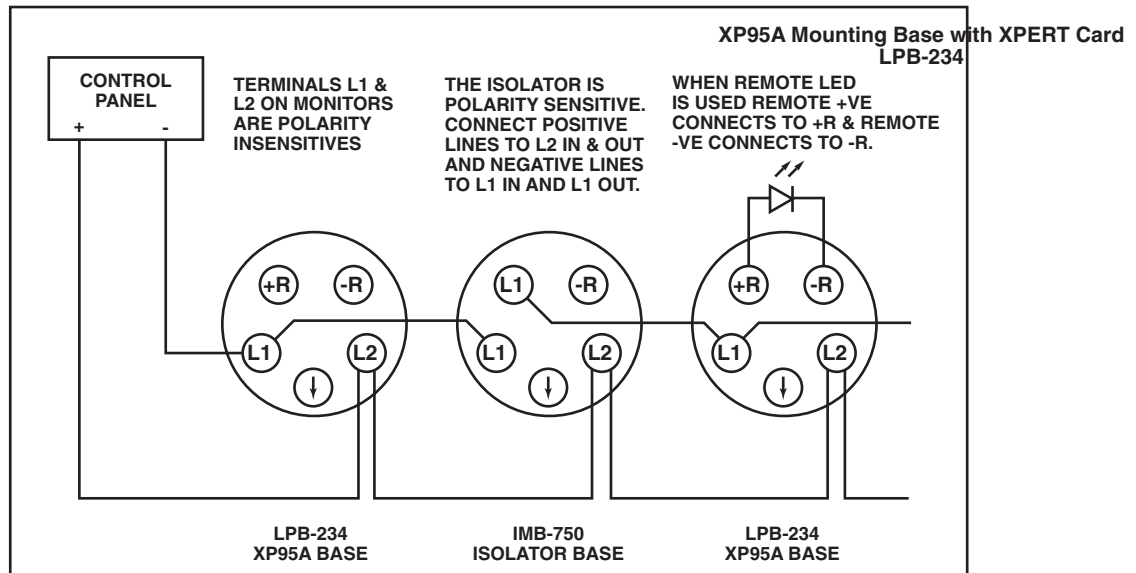
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Bases

- 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



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.

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