

# XP95-P

## Photoelectric Smoke Sensor

### General

The Gamewell-FCI XP95-P Analog Addressable Photoelectric Sensor is designed to operate with the Gamewell-FCI, Fire Alarm Control Panels (FACPs):

- ILI95-E3 Series
- 600 Series

The photoelectric sensor digitally transmits its address and the chamber's analog values to the FACP for analysis. The photoelectric sensor is distinguished by the clear status LED in the following conditions:

- When the device is polled, the LED flashes red.
- When the device is in alarm, the LED turns on continuously.

### Operation

The XP95-P photoelectric sensor constantly monitors its sensing chamber and its internal electronics. The results are then reported along with the unit's address through the integral communications electronics located in the sensor head. The XP95 photoelectric sensor uses a patented smoke chamber and infrared smoke sensing design. The infrared emitter generates a burst of light every second, or in response to direct interrogation.

In clean air, the photo diode receives no light from the emitter, due to the arrangement of the chamber. When smoke enters the chamber, it scatters light from the emitter onto the photo diode receptor in proportion to the smoke characteristics and density. As the smoke content in the chamber increases, the signal from the photo diode receptor increases. This information is processed and conditioned by an on-board, advanced-technology ASIC and digitally transmitted to the FACP.

You can identify the trouble and alarm conditions of the XP95 sensors at the control panel. The status information of each sensor is analyzed for off-normal conditions by the FACP. If the sensor reports a condition that matches its programmed trouble signature, the FACP will detect the sensor is in trouble and will follow its programmed response sequence. If the status reported matches the alarm signature, the FACP will follow the programmed alarm response for the specific device in alarm. When a sensor is in alarm, the integral LED in the sensor's housing will light continuously.

You can connect the XP95-P photoelectric device to a two-wire SLC carrying both data and a 17 to 28 VDC supply voltage. It is insensitive to loop connection polarity. A remote LED indicator may be connected. The device is compatible with point-or group-addressable relay and sounder bases.

### Ordering Information

**XP95-P:** Photoelectric sensor, analog addressable (55000-650)

**XP95-B4:** 4.0" (10.16 cm) mounting base with XPert addressing card (45681-2101)

**XP95-B6R4:** 6.0" (15.24 cm) relay base (four-wire) with XPert addressing card

**XP95-B6SNDR:** 6.0" (15.24 cm) mounting base with XPert addressing card and audible alarm sounder in the base

**GW71112:** Additional blank XPert addressing cards

**GW30203:** Remote LED (24 V) on single gang plate



XP95-P

## FEATURES & BENEFITS

- Compatible with the following Gamewell-FCI analog addressable fire alarm control panels
  - 600 Series
  - ILI95-E3 Series
- Fits the following ultra low profile E-Z fit bases:
  - 4-inch (10.16 cm)
  - 6-inch (15.24 cm)
- Includes an audible alarm sounder base
- Contains a four-wire relay base
- Stores the address in the sensor base
- Sets the address by an XPert addressing card
- Provides a two-color status LED
- Includes an optional remote LED
- Offers an infrared smoke sensing design
- Transmits continuous communications

# XP95-P Technical Specifications

## SYSTEM

**Standby Current:** 340  $\mu$ A

**Alarm LED Current:** 0.00434 A

**Remote Alarm Output:** 0.004 A @ 5 VDC

**Temperature Range:** 32°F to 140°F (0° C to 60° C)

**Relative Humidity:** (non-condensing) 0% to 95%

**Recommended Spacing:** Meets the 30 ft. (9.1 m) spacing guidelines in NFPA 72 Chapter 2. However, this spacing is based on ideal conditions and is to be used as a layout guide only. Appropriate installation-specific engineering is required.

## ENGINEER'S SPECIFICATIONS

Where indicated on the plans, the contractor will furnish and install dual chamber ionization sensors with one of the several available addressable mounting base options. The combination sensor head and twist-lock mounting base are UL® Listed as compatible with the Gamewell-FCI, 600 Series or ILI95-E3 Series Analog Addressable FACP. The base permits free interchange of sensor heads without requiring any additional wiring or additional programming of the head or base. The Gamewell-FCI model XP95-I smoke sensor has an LED that turns on when the unit goes into alarm.

## STANDARDS

The XP95-P is designed to comply with the following standard:

### UL STANDARDS

UL Standard 864 9th Edition

### AGENCY LISTINGS AND APPROVALS

These listings and approvals apply to the modules specified in this document. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult the factory for the latest listing status.

**UL Listed:** S1195

**FM Approved**

**FDNY Approved:** 149-99-E

**CSFM:** 7272-1703-0155

**ISO 9001 Certification**

For a complete listing of all compliance approvals and certifications, please visit: <http://www.gamewell-fci.com/en-US/documentation/Pages/Listings.aspx>

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This document is not intended to be used for installation purposes. We try to keep our 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.

Country of origin: U.S.A.

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