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Gamewell FCI FIRE CONTROL INSTRUMENTS

by Honeywell

Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 03/10/14

Photoelectric Smoke Sensor

Description

The Gamewell-FCI XP95-P analog addressable photoelectric sensor operates with the Gamewell-FCI analog addressable Fire Alarm Control Panels (FACPs). 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, which flashes red briefly when the device is polled and turns on continuously when the device is in alarm.

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 utilizes 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 because of the arrangement of the chamber. When smoke enters the chamber, it scatters light from the emitter onto the photo diode receptor in proportion to 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.

Trouble and Alarm conditions of the XP95 sensors are actually determined 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 that 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.

CS-2054ph1.wmf

XP95-P

Features

- Compatible with the Gamewell-FCI 600 Series analog addressable control panels
- Fits 4.0" (10.16 cm) or 6.0" (15.24 cm) ultra-low- profile E-Z fit bases
- Audible alarm sounder base
- Four-wire relay base
- Address is stored in the sensor base
- Address is set by XPert addressing card
- Two-color status LED
- Infrared smoke sensing design
- Continuous communications
- Optional remote LED

An ISO 9000-2000 Company

SIGNALING UL LISTED S1195 FM APPROVED MEA Approved 149-99-E

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Operation (Continued)

The XP95-P photoelectric device is connected to a two-wire SLC carrying both data and a 17 to 28 VDC supply voltage, and 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.

Engineer's Specifications

The contractor shall furnish and install, where indicated on the plans, photoelectric smoke sensors with one of the several addressable mounting base options available. The combination sensor head and twist-lock mounting base shall be UL Listed and UL Listed as compatible with the Gamewell-FCI 600 Series analog addressable fire alarm control panels. The base shall permit free interchange of sensor heads without requiring any additional wiring or additional programming of the head or base. The smoke sensor shall contain an integral LED that shall latch in when the unit goes into alarm. RF suppression techniques shall be employed to minimize false alarms. The photo-electric smoke sensor shall be the Gamewell-FCI model XP95-P.

Specifications

Standby Current:	340 µA
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.

Ordering Information

Model	Description
XP95-P	Photoelectric se addressable (55
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
71112	Additional blank XPert addressing cards
30203	Remote LED (24 V) on single gang plate

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