

by Honeywell

Description

The Gamewell-FCI Analog Addressable Ionization Sensor (XP95-I) is designed for operation with the Gamewell-FCI, 600 Series and ILI95-E3 Series, fire alarm control panels. Each XP95-I ionization smoke sensor digitally transmits its address but also the chamber's analog "real time" value to the Fire Alarm Control Panel (FACP) for analysis. The Ionization Sensor head has a molded case design with wind resistant smoke inlets. The external alarm indication is a Light Emitting Diode (LED) easily visible through the housing. The Ionization sensor is distinguished by the red status LED, which flashes briefly when the device is polled and turns on continuously when the device is in alarm.

Operation

The XP95-I Ionization Sensor uses a dual chamber design. The ionization chamber system has an inner reference chamber and outer sensing chamber. A single radioactive source mounted within the inner reference chamber irradiates air in both chambers to produce positive and negative ions. When the smoke particles enter the ionization chamber, ions become attached to the smoke particles and the current flowing through the ionization chamber decreases. This information is processed electronically and digitally transmitted to the 600 Series or the ILI95-E3 Series FACP.

Trouble and Alarm conditions of the XP95-I Sensors are identified at the FACP. The status information of each sensor is analyzed for off normal conditions by the control panel. If the sensor reports a condition that matches its programmed trouble signature, the FACP will report the sensor 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.

Analog Addressable Ionization Smoke Sensor



XP95-I

Features

- Compatible with the following Gamewell-FCI, analog addressable fire alarm control panels
 - 600 Series
 - ILI95-E3 Series
- Dual chamber design
- Fits 4-inch (10.16 cm) or 6-inch (15.24 cm) ultra low profile E-Z fit bases
- Audible alarm sounder base
- 4 Wire relay base
- Address is stored in the sensor base
- Address is set by X-Perit addressing card
- Wind resistant case
- Two-color status LED
- Optional remote LED

SIGNALING



LISTED
S1195



APPROVED

MEA
Approved



149-99-E 7271-1703:0157

Operation (Continued)

The XP95-I Ionization detector can be connected to a two-wire SLC carrying both data and a 17V to 28V DC supply voltage, and 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.

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 is 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.

Specifications

Standby Current:	280 μ A
Alarm LED Current:	2 mA
Remote Alarm Output:	0.228 @ 5 VDC
Temperature Rating:	Maximum continuous operating: 140°F (60°C) Minimum continuous operating: 32°F (0°C) Minimum operating (non-condensation) Minimum operating (non-condensation) -5°F (-20.55°C)
Relative Humidity:	0% - 95%, non-condensing

Ordering Information

Part Number	Description
XP95-I	Analog Addressable Ionization Sensor (55000-550)
XP95-B6EZ	6-Inch (15.24 cm) Ultra Low Profile EZ-Fit Mounting Base with X-Pert Card (45681-250)
XP95-B4	4-Inch (10.16 cm) Mounting Base with X-Pert Addressing Card (45681-2101)
XP95-B6R4	6-Inch (15.24 cm) Relay Base (4-Wire) with X-Pert Addressing Card
XP95-B6SNDR	6-Inch (15.24 cm) Mounting Base with X-Pert Addressing Card and Audible Alarm Sounder in the base
GW30203	Remote LED (24V)
GW71112	Additional Blank X-Pert Addressing Cards
XP95-B6LOW	6.0" (15.24 cm) low-profile mounting base with XPert addressing card (45681-234)

GAMEWELL-FCI