

PRECISION

Ionization Smoke Detector

VFD-200



Product Description

The PRECISION Ionization Smoke Detector is a highly intelligent device that has been optimized to detect incidents resulting from flaming fires, which makes it particularly suitable for the protection of property. The detector includes false alarm rejection and automatic drift compensation algorithms to provide greater stability and accuracy, without compromising its sensitivity to fire.

The Ionization Detector is designed for operation with the PROACTIV Fire Alarm Control Panel (FACP) System. The detector has a moulded white polycarbonate case with two red LEDs, wind-resistant smoke inlets and an insect-resistant mesh.

Function

The PRECISION Ionization Smoke Detector can operate in five (5) different modes and are easily programmable from the PROACTIV FACP. The detector can report three (3) alarm conditions: ALERT, ACTION and ALARM.

The five different modes allow for preset combinations of smoke sensitivity and confirmation delays, enabling application in a wide range of operating conditions.

Features

- Distributed Intelligence Architecture
- Five (5) individually programmable operating modes
- Three (3) alarm levels
 - Alert
 - Action
 - Fire Alarm
- False alarm rejection
- Automatic drift compensation
- Conventional Alarm reporting
- Dual LED status indicators
- Optional remote LED
- Fits 4 and 6 inch universal mounting bases
- PRECISION SLC device
 - Style 4, 6 or 7 wiring
 - Priority Alarm reporting

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Operation

The ionization chamber consists of a reference chamber contained inside a smoke chamber. The reading at the sensor electrode is converted to a digital format, which is processed to provide a digital value for transmission to the PROACTIV FACP when the device is polled.

The detector has two integral LED indicators, which can be illuminated by the FACP to indicate that the device is in alarm. The detector can be programmed to flash each time the device is polled.

If communication with the FACP is interrupted, the detector automatically switches to its conventional alarm reporting mode. When a fire is detected, the detector imposes an alarm signal on the SLC which is received by the FACP.

Ordering Information

PRECISION Devices

Description	Model	Description	Model
PRECISION LaserCOMPACT Detector	VLC-828	Remote Indicator	VFD-603
Photoelectric Smoke Detector	VFD-100	Switch Monitor Module	VFD-501
Ionization Smoke Detector	VFD-200	Priority Switch Monitor Module	VFD-502
Heat Detector	VFD-300	Mini Switch Monitor Module	VFD-506
Multi-sensor Detector	VFD-400	Priority Mini Switch Monitor Module	VFD-505
4-inch Mounting Base	VFD-000	Sounder Control Module	VFD-504
4-inch Relay Base	VFD-003	Input Output Monitor Module	VFD-503
4-inch 20D Isolator Base	VFD-004	Short Circuit Isolator	VFD-500
6-inch E-Z Fit Mounting Base	VFD-005	Short Circuit Isolator Base	VFD-001
6-inch Trim Ring	VFD-002	PRECISION Addressing Cards	PSP-2039

Note: Not all of the above products are available in all regions. Consult your local distributor or Xtralis office for more information.

Specifications

Device Type

PRECISION device

PRECISION SLC

Universal wiring bases support NFPA 72 Style 4, 6 and 7. Style 7 requires the use of isolators

Operating voltage

24 VDC

Standby current

380 μ A average

Alarm current, LED illuminated

3.38 mA

Alarm indicator

2 red LEDs

Optional remote LED

Operating Temperature

32°F to 140°F (0°C to 60°C)

Humidity

0 to 95% RH, non-condensing

Dimensions

4 inch (100 mm) diameter

1.7 inch (42 mm) height

2 inch (50 mm) height (in base)

Weight

Detector 3.7 oz (105 g)

Note: Specifications are typical at 24 V, 23°C and 50% relative humidity unless otherwise stated.

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