

PRECISION Heat Detector

VFD-300



Features

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

Product Description

The PRECISION Heat Detector provides combined fixed heat and rate of rise detection. This combination makes it suitable for use in harsh environments where elevated and fluctuating temperatures are considered normal, such as kitchens, laundries and boiler rooms.

The Heat Detector is designed for use with the PROACTIV Fire Alarm Control Panel (FACP) System. The detector has a similar physical profile to the Ionization and Photoelectric smoke detectors, including two indicating LEDs, but has a low airflow resistance case allowing ambient air to flow freely to the temperature sensor.

Function

The PRECISION Heat 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 modes each provide a different response behavior making the detector suitable for a range of applications. All modes incorporate a fixed temperature response where the detector raises an alarm when the selected temperature is reached. In addition, two of the five modes support rate-of-rise response, allowing the detector to respond rapidly to sudden increases in temperature.

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Operation

The Heat Detector uses a single thermistor to sense the ambient air temperature at the detector position. The reading at the thermistor 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

350 μ A average

Alarm current, LED illuminated

3.35 mA

Alarm indicator

2 red Light Emitting Diodes (LEDs)
Optional remote LED

Operating Temperature

32°F to 140°F (0°C to 60°C)

Humidity

0 to 95% RH

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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