NOTIFIER® by Honeywell

# FPTI-951 Series Multi-Criteria Photo/Thermal/Infrared Detectors

## General Description

The FPTI-951/-IV and FPTI-951A/-IV are plug-in addressable multi-criteria detectors that replace the FAPT-851 Series. They combine photoelectric, thermal, and infrared (PTIR) sensors in one unit to sense multiple components of a fire. This approach enables enhanced sensitivity to real fire with heightened immunity to nuisance particulates.

Multiple sensors and communication can greatly reduce nuisance alarms compared to single sensing methods. Sophisticated algorithms maximize the advantages of the sensor types. This detection strategy offers heightened immunity to nuisance particulates and enhanced sensitivity to real fire.

- Photoelectric sensors detect airborne particles associated with smoke.
- Thermal sensors detect heat and rate-of-rise (135°F fixed temperature threshold).
- The Infrared sensor discerns light patterns in the environment as an additional data point for alarm determination.

This ability to reject certain nuisance alarm triggers, such as theater smoke, supports the use of the detector in applications where moderate to heavy nuisance conditions exist that might cause single sensing detectors to trigger a false alarm.

The PTIR detector meets both UL 268 7th edition and UL 521 listing requirements and can indicate distinct smoke and heat alarms. This dual nature supports a local alarm setting for photoelectric detection and a general evacuation setting based on thermal detection. This can minimize work interruptions in multi-level buildings. Canadian models meet listing requirements of CAN/ULC S529 and CAN/ULC S530.

## Features

- Multi-criteria detection
- UL 268 7th Edition and UL 521 Listed; Canadian models CAN/ULC S529 and CAN/ULC S530
- New modern profile
- Analog communications
- Low standby current
- Rotary address switches
- Dual LEDs for 360° visibility
- Expanded color options
- FlashScan® protocol support on all models; FlashScan and CLIP protocol support on -IV models

## Specifications

### *PHYSICAL*

- Height: 2.0" (51 mm) installed in B300(A)-6 base
- Diameter: 6.2" (156 mm) installed in B300(A)-6 base; 4.1" (104 mm) installed in B501-WHITE/-IV/-BL base
- Weight: 3.4 oz. (95 g)
- Color: White (-IV models are ivory)
- Operating Humidity Range: 15% to 90% Relative Humidity, Non-condensing
- Operating Temperature Range: 32°F to 100°F (0°C to 38°C)
- Air Velocity: 0 to 300 ft./min. (0 to 91.4 m/min.)



FPTI-951 Multi-Criteria Detector installed in B200S-WH sounder base

### *ELECTRICAL SPECIFICATIONS*

- Operating Voltage Range: 15 to 32 VDC
- Operating Current @ 24 VDC: 200 uA (one communication every 5 seconds with green LED blink on communication)
- Maximum Alarm Current: 2 mA @ 24 VDC (one communication every 5 seconds with red LED solid on)
- Maximum Current: 4.5 mA @ 24 VDC (one communication every 5 seconds with amber LED solid on)
- Isolator Load Rating: 0.0063

## Standards

The devices in this datasheet meet the standards of UL 268 7th Edition and CAN/ULC S529.

## Agency Listings and Approvals

The listings and approvals below apply to the FPTI-951 Series. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult the factory for the latest listing status.

UL/ULC: S1111

FM Approved

CSFM: 7272-0028:0510

## Ordering Information

*"-IV" suffix indicates support of FlashScan and CLIP.*

**FPTI-951:** Multi-criteria photoelectric, thermal and infrared smoke detector, FlashScan, UL listed, white. For ivory, order FPTI-951-IV (FlashScan and CLIP).

**FPTI-951A:** Multi-criteria photoelectric, thermal and infrared smoke detector, FlashScan, ULC listed, white. For ivory, order FPTI-951A-IV (FlashScan and CLIP).

### *BASES*

**B501-WHITE:** 4" Mounting base, white

**B501-WHITE-BP:** 4" mounting base, white, 10-pack

**B501-IV:** 4" Mounting base, ivory

**B501-BL:** 4" Mounting base, black

**B300-6:** 6" Flanged mounting base, white (For ULC, order B300A-6)

**B300-6-BP:** 6" Flanged mounting base, white, 10-pack

**B300-6-IV:** 6" Flanged mounting base, ivory (For ULC, order B300A-6-IV)

**B200S-WH:** Intelligent addressable sounder base, white (For ULC, order B200SA-WH)

**B200S-IV:** Intelligent addressable sounder base, ivory (For ULC, order B200SA-IV)

**B200S-LF-WH:** Intelligent addressable sounder base, low-frequency, white, UL-listed

**B200S-LF-IV:** Intelligent addressable sounder base, low-frequency, ivory, UL-listed

**B224BI-WH:** Isolator base, white (For ULC, order B224BIA-WH)

**B224BI-IV:** Isolator base, ivory (For ULC, order B224BIA-IV)

**B224RB-WH:** Relay base, white (For ULC, order B224RBA-WH)

**B224RB-IV:** Relay base, ivory (For ULC, order B224RBA-IV)

### *ACCESSORIES*

**SMB600:** Surface mounting kit (flanged)

**TR300:** Trim ring, white

**TR300-IV:** Trim ring, ivory

**CK300-IR:** IR color kit (includes cover and trim ring), white, 10-pack

**CK300-IR-IV:** IR color kit (includes cover and trim ring), ivory, 10-pack

**CK300-IR-BL:** IR color kit (includes cover and trim ring), black, 10-pack

**RA100Z:** Remote LED annunciator, (For ULC, order RA100ZA)

**M02-04-00:** Detector test magnet

**M02-09-00:** Telescoping test magnet

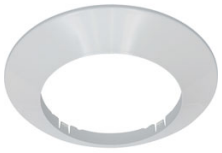
### *ACCESSORIES*



**RA100Z(A)**
**Remote LED Annunciator**



**CK300-IR-BL**
**Color Kit**



**TR300**
**Trim Ring**

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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.

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