

# HM-PTSE-UL

## General

The HM-PTSE-UL detector is an intelligent, addressable, multi-sensing, low-profile detector designed for Fire Alarm Control Panels.

The detector uses a combination of photoelectric and thermal sensing technologies to reduce to false alarms. Unlike traditional intelligent detectors, it has a microprocessor that processes alarm data. As a result, the detector adjusts its sensitivity automatically, without operator intervention or control panel programming.

Areas where the detector is especially useful include office complexes, schools, college campuses, manufacturing, and industrial facilities, and anywhere else where the use of a particular area may change. The detector automatically adjusts its sensitivity to the environment.

## Installation

The HM-PTSE-UL plug-in detector uses a separate base to simplify installation, service, and maintenance. A special tool allows maintenance personnel to plug-in and remove detectors without using a ladder. Suitable mounting base boxes include:

- 4.0" (10.16 cm) square box
- 3.5" (8.89 cm) or 4.0" (10.16 cm) octagonal box
- Single-gang box (except relay or isolator base)



HM-PTSE-UL

NOTE: Avoid installing these detectors in locations that are susceptible to rapid and high temperature changes. An example of an incorrect application would be near or in line with the output of a self-contained heater.

## FEATURES & BENEFITS

- Automatically adjusts sensitivity levels without operator intervention or programming
- Sensitivity increases with heat
- Microprocessor-based, combination photo and thermal technology
- Addressable-analog communication
- Sleek, low-profile design
- Two-wire SLC connection
- Addressing:
  - Addressable by device
  - Rotary, decimal addressing: 1- 159 for models SMX and STX
- Addresses can be viewed and changed without electronic programmers
- Dual bi-color LED design provides 360° viewing angle
- LEDs lock red when in alarm.
- Built-in, tamper-resistant feature
- Constructed of off-white, fire-resistant plastic, designed to commercial standards, and offers an attractive appearance
- SEMS screws for wiring of the separate base
- Several base options, including relay, isolator, and sounder
- Built-in functional test switch activated by external magnet
- Listed to UL 268

# HM-PTSE-UL Technical Specifications

| TECHNICAL SPECIFICATIONS                    |                                                                                    |
|---------------------------------------------|------------------------------------------------------------------------------------|
| Parameter                                   | Specification                                                                      |
| <b>Sensitivity fixed-sensitivity levels</b> | 1, 2, and 4%/ft with classic CLIP systems                                          |
| <b>Size</b>                                 | • 2.0" (53 cm) height, base determines diameter<br>• B501: 4.1" (10.4 cm) diameter |
| <b>Shipping weight</b>                      | 5.2 oz (147g)                                                                      |
| <b>Operating temperature</b>                | 0°C to 38°C (32°F to 100°F)                                                        |
| <b>UL-Listed velocity range</b>             | 0 – 4000 ft./min. (1219.2 m/min.), suitable for installation in ducts              |
| <b>Relative humidity</b>                    | 10% – 93% non-condensing                                                           |
| <b>Thermal sensing rating</b>               | fixed-temperature setpoint 135°F (57°C)                                            |

| ELECTRICAL SPECIFICATIONS          |                                                                                              |
|------------------------------------|----------------------------------------------------------------------------------------------|
| Parameter                          | Specification                                                                                |
| <b>Voltage range</b>               | 15 – 32 volts DC peak                                                                        |
| <b>Standby current (max. avg.)</b> | 300 µA                                                                                       |
| <b>Loop resistance</b>             | 50 ohms maximum; varies according to control panel used. Refer to panel installation manuals |
| <b>LED current (max.)</b>          | 6.5 mA @ 24 VDC ("ON")                                                                       |

| ACCESSORIES        |                                                                                                                     |
|--------------------|---------------------------------------------------------------------------------------------------------------------|
| <b>SMB600</b>      | Surface mounting kit                                                                                                |
| <b>M02-04-00</b>   | Test magnet                                                                                                         |
| <b>M02-09-00</b>   | Test magnet with telescoping handle                                                                                 |
| <b>XR2B</b>        | Detector removal tool. Allows installation and/or removal of detector heads from bases in high ceiling applications |
| <b>T55-127-010</b> | Detector removal tool without pole                                                                                  |
| <b>XP-4</b>        | Extension pole for XR2B. Comes in three 5-foot (1.524m) sections                                                    |

## Agency Listings and Approvals

Listing and approval below apply to the modules specified in this. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL Listed:** S36216

## Product Line Information

**HM-PTSE-UL:** Low-profile, intelligent, multi-sensor detector

### Honeywell Building Technologies ASEAN

Level 25, UOA Corp Tower B, Avenue 10  
The Vertical, Bangsar South City  
59200, Kuala Lumpur, Malaysia  
Email: Buildings.ASEAN@Honeywell.com

### Honeywell Building Technologies META

Emaar Business Park, Building 2, 2<sup>nd</sup> Floor  
Sheikh Zayed Road  
P.O.Box 232362, Dubai, U.A.E.  
Phone: +971 4 4505 847

### Honeywell Building Technologies India

Unitech Trade Centre, 5<sup>th</sup> Floor  
Sector – 43, Block C, Sushant Lok Phase – 1  
Gurgaon – 122002, Haryana, India  
Email: HoneywellSecurity&Fire@Honeywell.com  
Toll Free: 1-800-103-0339  
www.honeywell.com

HM-PTSE-UL | Rev 01 | 08/19  
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