

# HM-PSE-UL-W

## | Addressable Photoelectric Smoke Detectors

### APPLICATION

The HM-PSE-UL-W intelligent plug-in smoke detectors are designed for both performance and aesthetics. A new modern, sleek, contemporary design and enhanced optical sensing chamber is engineered to sense smoke produced by a wide range of combustion sources in accordance with more stringent code standards.

Exclusively for use with Honeywell Morley-IAS addressable fire alarm control panels, the HM-PSE-UL-W Series point ID capability allows each detector's address to be set with rotary, decimal address switches, providing exact detector location for emergency personnel to quickly locate a fire during its early stages, potentially saving precious rescue time while also reducing property damage. Two LEDs on each sensor light to provide a local, visible sensor indication.



### FEATURES

#### SLC LOOP

- Two-wire SLC loop connection
- Unit uses base for wiring
- Compatible with CLIP protocol systems
- Stable communication technique with noise immunity

#### ADDRESSING

- Addressable by device
- Rotary, decimal addressing (Refer to the compatible panel manuals for device capacity.)

#### ARCHITECTURE

- Sleek, low-profile, stylish design
- Unique single-source design to respond quickly and dependably to a broad range of fires
- Integral communications and built-in device-type identification
- Built-in tamper resistant feature
- Remote test feature from the panel
- Built-in functional test switch activated by external magnet
- Removable cover and insect-resistant screen for simple field cleaning
- Expanded color options

**Honeywell**

MORLEY IAS  
FIRE SYSTEMS

## OPERATION

- Designed to meet UL 268 7th Edition
- Factory preset at 1.5% nominal sensitivity for panel alarm threshold level
- LED “blinks” when the unit is polled (communicating with the fire panel) and latches in alarm.
- Low standby current

## MECHANICALS

- Sealed against back pressure
- SEMS screws for wiring of the separate base
- Designed for direct-surface or electrical-box mounting
- Plugs into separate base for ease of installation and maintenance
- Separate base allows interchange of photoelectric, ionization and thermal sensors

## INSTALLATION

The plug-in intelligent smoke detectors use a detachable base to simplify installation, service and maintenance. Installation instructions are shipped with each detector.

Mount detector base (all base types) on an electrical backbox which is at least 1.5” (3.81 cm) deep.

**NOTE:** Because of the inherent supervision provided by the SLC loop, end-of-line resistors are not required. Wiring “T-taps” or branches are permitted for Class “B” wiring only.

## CONSTRUCTION

These detectors are constructed of fire-resistant plastic. These plug-in intelligent smoke detectors are designed to commercial standards and offer an attractive appearance.

## OPERATION

Each detector uses one of the panel’s addresses (total limit is panel dependent) on the Signaling Line Circuit (SLC). It responds to regular polls from the control panel and reports its type and the status. If it receives a test command from the panel (or a local magnet test), it stimulates its electronics and reports an alarm. It blinks its LEDs when polled and turns the LEDs on when commanded by the panel. The detector offers features and performance that represent the latest in smoke detector technology.

## DETECTOR SENSITIVITY TEST

Each detector can have its sensitivity tested (required per NFPA 72, Chapter 14 on Inspection, Testing and Maintenance) when installed/connected to an Honeywell Morley-IAS addressable fire alarm control panel. The results of the sensitivity test can be printed for record keeping.

## PRODUCT LINE INFORMATION

**HM-PSE-UL-W:** Ivory, low-profile intelligent photoelectric sensor

### INTELLIGENT BASES

**B300-6-IV:** Ivory, 6" base, standard flanged low-profile mounting base

**B501-IV:** Ivory color, 4" standard European flangeless mounting base. UL listed (system sensor branded /UL Approved)

### MOUNTING KITS AND ACCESSORIES

**M02-04-00:** Test magnet

**M02-09-00:** Test magnet with telescoping handle

**CK300-IV:** Color Kit (includes cover and trim ring), ivory, 10-pack

## SYSTEM SPECIFICATIONS

Sensitivity	UL Applications: 0.5% to 4.0% per foot obscuration.
Size	2.0" (51mm) high; base determines diameter - B300-6-IV: 6.1" (15.6 cm) diameter - B501: 4" (10.2 cm) diameter
Shipping weight	3.4 oz. (95 g)
Operating temperature range	HM-PSE-UL-W: 32°F to 122°F (0°C to 50°C)
UL Listed Velocity Range	0-4000 ft/min. (1219.2 m/min.), suitable for installation in ducts
Relative humidity	10% - 93% non-condensing
Thermal ratings	fixed-temperature set point 135°F (57°C), rate-of-rise, detection 15°F (8.3°C) per minute, high temperature heat 190°F (88°C)

## ELECTRICAL SPECIFICATIONS

Voltage range	15 - 32 volts DC peak
Standby current (max. avg.)	200µA @ 24 VDC (one communication every 5 seconds with LED enabled)
Max current	4.5 mA @ 24 VDC ("ON")

## DETECTOR SPACING AND APPLICATIONS

Honeywell Morley IAS recommends spacing detectors in compliance with NFPA 72. In low airflow applications with smooth ceiling, space detectors 30 feet (9.1m). For specific information regarding detector spacing, placement, and special applications refer to NFPA 72. A System Smoke Detector Application Guide, document SPAG91, is available at [www.systemsensor.com](http://www.systemsensor.com).

## LISTINGS AND APPROVALS

Listings and approvals below apply to the detectors. 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 Listing: S36216

### For more information,

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