

HML/PTSE MULTI CRITERIA PHOTOELECTRIC SMOKE/THERMAL DETECTOR



The HML/PTSE photoelectric smoke/thermal detector forms part of the HML Series of Addressable detectors. This range of detectors has been produced using the latest in manufacturing and design techniques, pushing out the boundaries of existing detector technology.

The HML/PTSE photoelectric smoke/thermal detector incorporates an optical chamber and a thermal element, which in turn are continually monitored by an on board processor by using algorithms developed specifically for the unit. An alarm signal is only enabled in the detector once the processor is satisfied that an incipient fire has been detected. By using a combination of inputs, the incidence of nuisance alarms is reduced while at the same time, the response time to an actual fire is also improved.

The HML/PTSE and other detectors in the HML Series range are backward compatible with the Series 100 detector bases, thus providing the capability to upgrade, extend and maintain existing Series 100 installations. The HML/PTSE detector incorporates a bi-colour LED indicator. The integral LED changes colour according to the detector's status - Green = Normal, Red = Alarm. This benefits the user by providing clear, instant visual indication of the detector's condition. The Green LED can be programmed for blink/no blink operation.

Drift compensation' algorithms are one of the key features of the HML/PTSE detector. These algorithms ensure a consistent alarm sensitivity threshold for periods between service intervals. This provides the user with both a reduction in the frequency of nuisance alarms and maintenance savings by extending the period before cleaning of the detector chamber is required.

The sensitivity of a smoke detector is critical to its overall performance, this is reflected in both its ability to detect real fire conditions and its resilience to non-fire stimuli. The HML/PTSE's performance can be optimised for its application by selecting from one of three preset alarm thresholds - Low, Medium and High, offering greater stability and optimum performance within the environment in which it has been installed. The selection is easily achieved through the use of a remote hand-held tool.

The remote hand-held programming unit can also be used in conjunction with the HML Series range of detectors to gain access to other advanced features. The features available include: read/write last maintenance date, read chamber contamination level, read value of thermal element and perform an alarm test.

FEATURES

- Low profile design
- Low current draw
- Backward compatible with Series 100 detector range of bases
- Wide operating voltage 8 to 30VDC
- Bi-colour LED detector status indicator
- Programmable sensitivity
- Automatic drift compensation
- Addressable feature
- Advanced maintenance features via remote hand-held test unit
- Range of detector bases available

Honeywell

HML/PTSE ARCHITECT/ENGINEER SPECIFICATIONS

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Each unit can be given a unique address that will be displayed on the Morley Lite fire alarm control panel whenever the detector is in alarm. All the features via the hand-held programming unit are achieved effectively and effortlessly without the need to remove the detector or having to gain direct physical access (other than by the use of 'No Climb Products' or similar servicing tool), saving valuable commissioning/maintenance time. They provide the end user with the confidence to know that his system is being regularly serviced and that it is operating at its optimum level, with minimum disruption to his own business activities.

ELECTRICAL SPECIFICATIONS

| | |
|--------------------------------|---------------------------------|
| Operating Voltage Range | 8 to 30VDC (Nominal 12/24VDC) |
| Typical Standby Current @ 25°C | 65 µA @ 24VDC (LED no blink) |
| Maximum Alarm Current (LED On) | 80mA @ 24VDC (Limited by panel) |

ENVIRONMENTAL SPECIFICATIONS

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|-------------------------------|---|
| Application Temperature Range | -30°C to +70°C |
| Humidity | 5 to 95% Relative Humidity (non condensing) |

MECHANICAL INFORMATION

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|------------------------------|---|
| Height | 38mm (plus 9mm for B401 base) |
| Diameter | 102mm |
| Weight | 105g (plus 60g for B401 base) |
| Max Wire Gauge for Terminals | 0.75mm ² to 2.5mm ² |
| Colour | Pantone Warm Grey 1C |
| Material | Bayblend FR110 |

Notes: Bases with other resistor values are available to suit the requirements of most Honeywell Morley Lite Panels.

For more information,

<https://honeywellbuildings.in>

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In addition to the comprehensive programming tool, a simple laser based alarm test unit is also available. The coded signal transmitted by this device can instruct the detector to generate a full alarm condition at a range of up to 5 metres from the detector, and is an ideal tool for initial commissioning and routine system testing.

A variety of detector bases can be used with the HML/PTSE detector, providing application flexibility and compatibility with a wide range of Honeywell Morley Lite Fire Alarm Panels. All bases are fitted with a shorting spring to permit circuit testing prior to fitting the detector and have a tamper resistant feature, which when activated prevents removal of the detector without the use of a tool.

All Morley Lite products are covered by standard 1 year warranty.

PRODUCT RANGE

COMPATIBLE BASES (see notes)

| |
|---|
| B401 Standard Base |
| B401R Resistor base with 470 ohm resistor |
| B401RSD Standard base with 470 ohm resistor and Shottky diode |
| B401RM Standard recess base with 470 ohm resistor |
| B401DGR Deep base with 470 ohm resistor |
| B312NL 12V non-latching relay base |
| B324RL 24V latching relay base |
| B312RL 12V latching relay base |
| B401DGSD Deep base with Shottky diode |
| B401SD Standard base with schotty diode |
| B401DG Deep base |

ACCESSORIES

| | |
|---|----------------------------|
| S300RPTU Remote Programming and Test Unit | S300RTU Remote Test Unit |
| S300ZDU Zonal Display Unit | S300ZDU Zonal Display Unit |

OTHER HML DETECTOR

HML/PSE & HML/RHSE

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