

HML/PSE PHOTOELECTRIC SMOKE DETECTOR



The HML/PSE photoelectric smoke detector forms part of the Honeywell Morley Lite range 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/PSE photoelectric detector incorporates an Application Specific Integrated Circuit (ASIC). Combined with the latest state of the art optical chamber the detector provides efficient and accurate detection of fires with a high level of resilience to non-fire environmental influences.

The HML/PSE detector is backward compatible with the Series 100 detector bases, thus providing the capability to upgrade, extend and maintain existing Series 100 installations.

The HML/PSE 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/PSE 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/PSE'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 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
- Automatic drift compensation
- Programmable sensitivity
- Addressable feature
- Advanced maintenance features via remote hand-held test unit
- Range of detector bases available

HML/PSE ARCHITECT/ENGINEER SPECIFICATIONS

HML/PSE PHOTOELECTRIC SMOKE DETECTOR

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	50µA @ 24VDC (LED no blink)
Maximum Alarm Current (LED On)	80mA @ 24VDC (Limited by panel)

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

MECHANICAL INFORMATION	
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 Fire Alarm Control Panels.

For more information,

<https://honeywellbuildings.in>

Call: 1-800-103-0339

Email: HBT-Indiabuildings@honeywell.com

Honeywell HBT India Buildings

Unitech Trade Center, 5th Floor, Sector-43,
Block C, Sushant Lok Phase - I,
Gurgaon - 122 002

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/PSE detector, providing application flexibility and compatibility with a wide range of Fire Alarm Control 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 schottky diode	
B401DG Deep base	

ACCESSORIES	
S300RPTU Remote Programming and Test Unit	S300RTU Remote Test Unit
S300SAT Remote Programming Interface Unit	S300ZDU Zonal Display Unit
Other HML Detectors	HML/PTSE, HML/RHSE

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

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HML/PTSE ARCHITECT/ENGINEER SPECIFICATIONS

HML/PTSE PHOTOELECTRIC SMOKE / THERMAL DETECTOR

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

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

MECHANICAL INFORMATION

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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Gurgaon - 122 002

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

**HML/PTSE
MULTI CRITERIA
PHOTOELECTRIC SMOKE/
THERMAL DETECTOR**

HML/RHSE RATE OF RISE & FIXED TEMPERATURE THERMAL DETECTOR



The HML/RHSE thermal detector forms part of the HML Series range 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/RHSE thermal detector incorporates an Application Specific Integrated Circuit (ASIC). Combined with the latest in thermal element technology the detector provides efficient and accurate detection of fires, especially in environments such as bars or kitchens where smoke detectors are inappropriate due to the high level of airborne contamination.

The HML/RHSE 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/RHSE 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.

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 value of thermal element and perform an alarm test.

Each unit can be given a unique address that will be displayed on the Honeywell Morley Lite Panel LCD 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.

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
- Addressable feature
- Advanced maintenance features via remote hand-held test unit
- Range of detector bases available

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HML/RHSE ARCHITECT/ENGINEER SPECIFICATIONS

HML/RHSE RATE OF RISE & FIXED TEMPERATURE THERMAL DETECTOR

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.

A variety of detector bases can be used with the HML/RHSE detector, providing application flexibility and compatibility with a wide range of Fire Alarm Control 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.

ELECTRICAL SPECIFICATIONS

Operating Voltage Range	8 to 30VDC (Nominal 12/24VDC)
Typical Standby Current @ 25pC	60µA @ 24VDC (LED no blink)
Maximum Alarm Current (LED On)	80mA @ 24VDC (Limited by panel)

ENVIRONMENTAL SPECIFICATIONS

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

MECHANICAL INFORMATION

Height	48mm (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.

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B401DGR Deep base with 470 ohm resistor
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ACCESSORIES

S300RPTU Remote Programming and Test Unit
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OTHER HML DETECTOR

HML/PSE & HML/PTSE

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