



## features

- Low profile design
- Low current draw
- Remote alarm test feature
- Easy maintenance
- Remote LED option
- Designed to comply with EN54 Pt.7:2000
- Extended warranty

The HRZ-1003 photoelectric smoke detector is one of the Horizon range of conventional detectors.

These detectors have been produced using the latest in manufacturing technology and supplied with an array of advanced features, making them 'better by design'.

# HRZ-1003

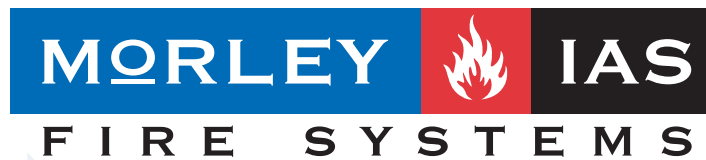
conventional smoke detector

# Data Sheet

We reserve the right to amend any design or specification in line with our policy of continuing development and improvement. © Morley-IAS Fire Systems 2004

The HRZ-1003 photoelectric smoke detector uses a state of the art optical chamber combined with an application specific integrated circuit (ASIC) to provide quick and accurate detection of fires. A combination of the unique chamber design and other technically advanced features will significantly extend the service intervals before the cleaning of the detector becomes necessary.

A laser-based hand held Remote Test Unit can be used in conjunction with the range of Horizon detectors for alarm test purposes. The unit transmits a coded message, preventing spurious alarms being generated by other laser-based devices. With a range of several metres, the hand held test unit provides a fast and simple way of remotely testing the Horizon range of detectors and removes the need for any direct physical access to the detector by the user.



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The HRZ-1003 detector has an integral LED, which illuminates to provide a local alarm signal. This latches on, and remains illuminated until the detector is reset by a momentary power interruption. An optional remote LED annunciator may be used to repeat any alarm signal.

The detector base is fitted with a shorting spring to permit circuit testing prior to fitting the detector and has a tamper resistant feature, which when activated prevents removal of the detector without the use of a tool. All detectors are covered by our extended 3-year warranty.

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## electrical

<b>Operating Voltage Range</b>	14–28 VDC (Nominal 24VDC)
<b>Typical Standby Current</b>	45µA @ 24VDC
<b>Maximum Permissible Alarm Current</b>	80mA (current limited by control panel)

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## environmental

<b>Operating Temperature Range</b>	–30°C to +70°C
<b>Storage Temperature Range</b>	–40°C to +85°C
<b>Humidity</b>	5 to 95% Relative Humidity (non-condensing)

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## mechanical

<b>Height (without Base)</b>	32.5mm
<b>Diameter</b>	102mm
<b>Weight</b>	75g
<b>Max Wire Gauge for Terminals</b>	1.5mm <sup>2</sup>
<b>Colour</b>	Approximates to RAL9016
<b>Material</b>	ABS

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## product range

<b>Bases</b>
HRZ-1000BSD Standard Base with schottky diode

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## accessories and other detectors

- 2020LT Remote Test Unit
- HRZ-1002 Photoelectric Detector / Thermal Detector
- HRZ-1004T High Temperature Thermal Detector
- HRZ-1005 High Rate of Rise & Fixed Temperature Thermal Detector
- HRZ-1005T Fixed Temperature Thermal

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## local distributor

Every care has been taken in the preparation of this data sheet but no liability can be accepted for the use of information therein. Design features may be changed or amended without prior notice.

