

features

- Combined transmitter and receiver unit
- Can be connected directly to the analogue addressable loop
- Range 10-100 metres
- Sensitivity/threshold adjustment
- Operates in the visible light spectrum
- Visual LED indicators to aid alignment of beam
- Standby, fault and alarm LED indicators
- Integral horizontal and vertical beam alignment
- Drift compensation
- Optional - Remote engineer's switch
- Optional - Heat pad kits and filters
- Vds approved to prEN54-12 and EN60825-1

The model MI-LPB is an intelligent reflector-type linear optical beam smoke detector designed to operate as a component of an intelligent fire alarm system. It operates primarily on the principle of light obscuration utilising a laser beam. Optical beam smoke detectors are particularly appropriate for protecting buildings with large open spaces such as warehouses, atriums etc.

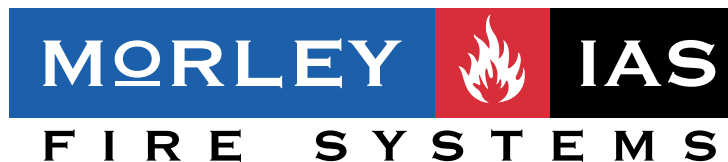
The MI-LPB detector is a combined transmitter/receiver unit, which can be directly connected to an analogue addressable loop without the need of a local power supply. Each second the laser diode within the detector generates a visible pulsed light towards a high efficiency reflector. The reflector returns the beam to the MI-LPB detector receiver where an analysis of the received signal is made. The change in the strength of the received signal is used to determine the alarm condition.

The installer only needs to terminate the loop cabling to the detector, with no separate wiring for individual transmitter and receiver units or local power supplies.

There are several reflectors that are used in conjunction with the MI-LPB detector, the REFL20, REFL30, REFL40, REFL50 and REFL60, providing a range of 10 to 100M.

Alignment of the MI-LPB detector is simplified with the aid of the detector's installation set up. During commissioning the detector can be put into installation mode by means of a switch. Selecting this mode provides the installer with a visible targeting spot of light. Alignment of the MI-LPB detector with the reflector can then be "fine tuned" with the aid of alignment LED indicators.

The MI-LPB detector has an advanced sensitivity adjustment feature providing application flexibility to suit the environment in which the detector will be installed. The sensitivity adjustment has five different settings for this purpose.



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MI-LPB intelligent optical smoke beam detector Data Sheet

