

Engineering Specification for FIRERAY 5000 Multi Head Optical Beam Smoke Detector

The motorised reflective Optical Beam Smoke Detector system shall be compliant with EN54:12 and the CPR, or listed to UL 268, and shall consist of up to two transceiver detector heads connected to a single low-level remote-control unit with LCD display for set-up, reporting and testing in accordance with UL and FM requirements. The control unit shall be password protected.

The beam system shall operate between a range of 8m to 100m (26.5ft to 330ft).

The detector heads shall have an integral laser pointer to assist prism positioning. The detector head shall include an Auto Optimise, self-correcting, motorised feature to ensure the transceiver is always receiving maximum signal available, and shall automatically compensate for natural building movement.

The beam system shall be capable of automatic motorised alignment, which allows alignment of each detector head in under 5 minutes and shall feature automatic gain control (AGC), which will compensate for gradual signal deterioration from dirt accumulation on the lenses.

The beam system shall be capable of sending separate fire and fault signals from each detector, shall be capable of programming alarm thresholds for 10% to 60% in 1% increments and shall be capable of programming 'delay to fault' and 'delay to alarm' from 2 seconds to 30 seconds, in 1 second increments.

The beam system shall also be capable of logging the 50 most recent events per detector and accessible from the low-level control unit.

The low-level control unit shall be capable of performing software fire testing acceptable for Fire Authority Acceptance and Routine Maintenance per UL 258-5.

A full range of installation accessories shall be available for flexibility during installation. The Reflective beam type smoke detector shall be a Fireray 5000.

