

Engineering Specification for FIRERAY ONE Standalone Optical Beam Smoke Detector

The motorized reflective Optical Beam Smoke Detector shall be compliant with EN54:12 and the CPR, or listed to UL 268 7th Edition, and shall consist of a single standalone transceiver which will provide set-up, reporting and testing in accordance with UL and FM requirements.

The beam detector shall operate between a range of 5m to 120m (16.5ft to 394ft).

The detector head shall have an integral laser pointer to assist prism positioning.

The detector head shall include an Auto Optimize, self-correcting, motorized feature to ensure the transceiver is always receiving maximum signal available, which shall automatically compensate for natural building movement.

The beam detector shall be capable of automatic motorized alignment, which allows alignment of each detector head in under 2 minutes and shall feature automatic gain control (AGC), which will compensate for gradual signal deterioration from dust accumulation on the lenses.

The beam detector shall provide a light cancellation technology to reduce false alarms caused by direct sunlight and artificial light sources.

The beam detector shall have the capability to point beams facing each other or be installed in irregular configurations without causing undesired alarms.

The beam detector shall have an operating voltage range of 14 to 36VDC with a maximum current requirement of 5mA in all operational modes.

The beam detector shall be configurable as latching or non-latching. Provisions for resetting shall not cause the detector to fault.

The beam shall have an operating range of -4°F to +131°F.

The beam detector shall be capable of providing form-C relay contacts for fire and fault signals rated at 2A, 30VDC, and shall be capable of programming alarm thresholds of 25%, 35%, 55% and 85% using on-board DIP switches.

A full range of installation accessories shall be available for flexibility during installation.

The Reflective beam type smoke detector shall be a Fireray One.

