



Product

BEAM1224S Beam Smoke Detector

Architectural/Engineering Specifications

Smoke detector shall be a System Sensor beam type smoke detector model number BEAM1224, listed to Underwriters Laboratories UL 268 for Fire Protection Signaling Systems. The detector shall be a 4 wire conventional reflected beam smoke detector. The detector shall include a transmitter and receiver both within the detector unit. The detector shall have an integral sensitivity test feature, consisting of a test filter attached to a servo motor inside the detector optics. The detector shall include a reflector. The detector shall allow for beam alignment between the detector and the reflector to be done at the detector. The detector shall have four standard selectable sensitivity settings, along with two Acclimate™ settings for adjustable sensitivity. The detector shall be capable of automatically adjusting its sensitivity by means of advanced software algorithms. The detector shall be rated for use in temperatures between -22° F and 131° F. Protection range shall be 16 ft. to 230 ft. nominal; 16 ft. to 328 ft. with use of long range kit, model BEAMLRK.

Electrical Specifications

The Operating Voltage shall be; Nominal: 12/24V non-polarized, Minimum: 15.0V, Maximum: 32.0V. The BEAM1224S should not be used with 12V power sources. The Maximum Ripple Voltage shall be 6.0 volts peak to peak of applied voltage, and must not fall below minimum operating voltage specification. The Standby Current shall be 70 mA maximum average. The Sensitivity Test voltage shall be 500 mA maximum. The Maximum Alarm Current shall 35 mA maximum average. The Alarm Contact Ratings shall be 0.5 A @ 30V AC/DC.

Physical Specifications

The BEAM1224 detector dimensions shall be 10.0 inches (254 mm) height; 7.5 inches (191 mm) width; 3.3 inches (84 mm) depth. The reflector dimensions shall be 7.9 inches (200 mm) wide; 9.1 inches (230 mm) height. The approximate detector weight shall be 3.9 pounds (1.77 kilograms) for both the detector and reflector. The Operating Temperature Range shall be -22° F-131° F (-30° C-55° C). The Operating Humidity Range shall be 10 to 93% RH non-condensing. The Input Terminals shall be 12-22 AWG.

LED Modes

In Normal (standby) mode, the local LED shall blink Green every 5 seconds. In Trouble mode, the local LED shall blink Yellow. In Alarm mode, the local LED shall be solid Red. During alignment, the digital display shall indicate 00-99 for fine adjustment.