

BEAM200(S): The Only Intelligent Beam Detector to Ever Hit the Market

Product Briefing

System Sensor's BEAM200(S) is an intelligent, single-ended, loop-powered, reflected-type beam smoke detector. Each detector can protect an area up to 328 feet and operates in conditions with temperature extremes ranging from minus 22 to 131 degrees Fahrenheit. Designed for large, open areas with high-ceilings and temperature extremes, the BEAM200(S) is ideal for churches, atriums, warehouses, garages and other places where standard smoke detectors may be difficult to install and maintain.

Product Features

If smoke enters and obscures the infrared beam between the detector's transmitter/receiver unit and reflector, the detector generates an alarm signal. However, because the detector is sensitive to the environment, if dirt and dust start collecting on the detector's

lens, the detector generates a trouble signal, indicating the need for service.

Designed to simplify installation and maintenance, the BEAM200(S) detector features six sensitivity levels, including two Acclimate™ settings. When either Acclimate setting is selected, the detector automatically adjusts its sensitivity to the environment using advanced software algorithms, leading to a reduced number of false alarms. Additionally, the device is addressable, which means that the location of the alarm will be indicated at the fire alarm panel.

The most revolutionary feature of the BEAM200(S) is the integral sensitivity test feature. The product is capable of meeting the maintenance and testing requirements for NFPA 72 by blocking the beam's path with a calibrated test filter, internal to the unit. The beam, upon command by either a remote test station (RTS451/RTS451KEY) or the fire

alarm control panel, will, using a servo-motor, insert a test filter into the path of the beam and indicate whether it passes its internal test criteria. This patented feature cements the reputation of the beam detector as a market leader.

Other features of the intelligent beam detector include an optical sight and a 2-digit signal strength meter for easy alignment.

Product Installation

The BEAM200(S) is easier to install than dual-ended projected beam detectors. Spacing guidelines for the BEAM200(S) are 30 to 60 feet between projected beams and not more than one-half that spacing between a projected beam and a side wall. The detector is mounted with the transmitter/receiver and the reflector on opposite walls or hanging from the ceiling or any combination of the two.

When mounting the detector, the reflector must be mounted within 10 degrees horizontally and vertically to the transmitter/receiver unit. The maximum tolerance for non-perpendicular mounting locations for the reflector is 10 degrees.

Beam Online Training

Online product training and testing modules on System Sensor's conventional beam detector series are now offered at www.systemsensor.com/training/beam.

The comprehensive, specification-focused primers on System Sensor products require users to sign in by providing basic contact information. Once registered, users can navigate through several screens that highlight "sales features" of the beam detectors and then complete a multiple-choice test to gauge retention. The test results are then archived under the registrant's sign-in for future reference. LS



Intelligent, Reflected-Type Beam Smoke Detector

The BEAM200S is a single-ended, reflected-type beam smoke detector that includes an 8-inch reflector and an integral sensitivity test.

BEAM200S

Operating Temperature Range:	-22°F to 131°F (-30°C to 55°C)
Operating Humidity Range:	10% to 93% RH non-condensing
Dimensions: Detector:	10" (254 mm) H x 7.5" (191 mm) W x 3.3" (84 mm) D
Reflector:	16-230 ft.: 7.9" (200 mm) H x 9.1" (230 mm W)
Operating Voltage Range:	15 to 32 VDC
Alarm Current:	8.5 mA max.
Standby Current:	2 mA max. avg. @ 24 VDC