SK-BEAM / SK-BEAM-T

Addressable Beam Smoke Detectors

The SK-BEAM and SK-BEAM-T are uniquely suited for protecting open areas with high ceilings where other methods of smoke detection are difficult to install and maintain.

The SK-BEAM and SK-BEAM-T are addressable beam smoke detectors for use with Silent Knight IntelliKnight series fire alarm control panels (FACPs). The SK-BEAM-T also includes an integrated sensitivity test feature.

Installation of the single-ended reflective design is much easier than dual ended projected beam detectors. Alignment is quickly accomplished using an optical sight and a two-digit signal strength meter incorporated into the SK-BEAM and SK-BEAM-T.

Listed for operation from -22°F to 131°F (-30°C to 55°C), the SK-BEAM and SK-BEAM-T can be used in applications to provide early warning in environments where temperature extremes exceed the capability of other types of smoke detectors.

The SK-BEAM and SK-BEAM-T consist of transmitter/receiver unit and one reflector. When smoke enters the area between the unit and the reflector it causes a reduction in the signal. When the smoke level reaches the predetermined threshold, the detector generates an alarm signal.

These beam smoke detectors have four sensitivity selections along with two acclimate settings. When either of the two acclimate settings are selected, the detector will automatically adjust its sensitivity using advanced software algorithms to select the optimum sensitivity for the specific environment..

SK-BEAM AND SK-BEAM-T

FEATURES & BENEFITS

- 16 to 328 foot protection range
- Single-ended, reflective design
- Remote test station available
- Six user selectable sensitivity levels
- The SK-BEAM-T is equipped with an integral sensitivity test feature that consists of a test filter attached to a servo motor inside the detector optics, . allowing the user to quickly and easily meet the annual maintenance and test requirements of NFPA 72.
- Removable plug-in terminal blocks
- Digital display for easy alignment
- User friendly alignment procedure
- Built-in automatic gain control compensates for signal deterioration from dust build-up
- Rotary address switches for fast installation
- Paintable cover

SK-BEAM and SK-BEAM-T Technical Specifications

PHYSICAL

Detector: 10"H x 7.5"W x 3.3"D (25.4cm x 19.1cm x 8.4cm)

Reflector for 16' – 230': 7.9" H x 9.1" W (20cm x 23cm)

Reflector for Beyond 230': 15.7" H x 18.1" W (40cm x 46cm)

Shipping Weight: 3.9lbs (1.77 kg)

ELECTRICAL

Operating Voltage: 15 – 32VDC

Standby Current (Avg): 2mA max

Current During Testing (Avg): 500mA max

Alarm Current: 8.5mA max

Fault Current: 4.5mA max

Alignment Mode Current: 20mA

ENVIRONMENTAL

Operating Temperature: -22°F – 131°F (-30°C – 55°C)

Humidity: 10% – 93% non-condensing

OPERATING

Protection Range: 16' – 328' (5 – 100m)

Adjustment Angle: +/–10° horizontal & vertical (optics move independent of the unit)

Sensitivity Levels: Level 1–25%; Level 2–30%; Level 3–40%; Level 4–50%; Level 5–30 to 50% (Acclimate) Level 6–40 to 50%(Acclimate) Fault Condition (Trouble): 96% or more obscuration blockage in alignment mode; improper alignment; selfcompensation limit reached Alignment Aid: Optical gun sight; integral signal strength indication; 2-digit display

LEDs: Normal–flashing green; Yellow–trouble; Red–alarm Test/Rest Feature: Integral sensitivity test filter (SK-Beam-T only); sensitivity filter (incremental scale on reflector); local test switch; local reset switch; remote test and reset switch (compatible with RTS151 and RTS151KEY test station)

ORDERING INFORMATION

SK-BEAM: Reflected beam smoke detector without test feature

SK-BEAM-T: Reflected beam smoke detector with test feature

ACCESSORIES.

BEAMLRK: Long Range Accessory Kit. Required for applications in excess of 230ft (70m).

BEAMMMK: Multi-Mount Kit. Provides ceiling or wall mount capability with increased angular adjustment for either the beam or the reflector. When installed with the transmitter/receiver unit, BEAMSMK must also be used.

BEAMSMK: Surface Mount Kit RTS151 Remote Test Station. Used to initiate the NFPA sensitivity test function.

RTS151KEY: Remote Test Station with Key Lock

BEAMHK: Heater Kit for Transmitter/Receiver Unit. See electrical requirements in the Specifications.

BEAMHKR: Heater Kit for Reflector. See electrical requirements in the specifications section.

INSTALLATION

The SK-BEAM and SK-BEAM-T transceiver/receiver can be mounted over a recessed junction box or surface mounted using the System Sensor surface mounting kit BEAMSMK. The reflector is surface mounted. For applications in which the reflector cannot be placed at the necessary angle, the multimounting kit is required System Sensor PN BEAMMMK.

COMPATIBILITY

The SK-BEAM AND SK-BEAM-T are compatible with the following Honeywell Silent Knight fire alarm control panels:

6820: Addressable fire alarm control panel

6820EVS: Addressable fire alarm control panel with an emergency mass notification system.

6808: Addressable fire alarm control panel

6700: Addressable fire alarm control panel

5700: Addressable fire alarm control panel

5808: Addressable fire alarm control panel

5820XL: Addressable fire alarm control panel

5820XL-EVS: Addressable fire alarm control panel with an emergency mass notification system.

For a complete listing of all compliance approvals and certifications, please visit www.silentknight.com.

This document is not intended to be used for installation purposes. We try to keep our product information up-to date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice.

For Technical Support, call 800-446-6444.

For more information

Learn more about Honeywell Silent Knight and other products by visiting www.silentknight.com

Honeywell Silent Knight
12 Clintonville Road
Northford, CT 06472
800-328-0103

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