SK-HEAT-W Series

Intelligent Thermal (Heat) Detector

Honeywell Silent Knight SK-HEAT-W Series intelligent thermal detectors are designed for both performance and aesthetics. A new modern, sleek, contemporary design and advanced thermal technologies make the SK-HEAT-W Series ideal for both system operation and building design.

The point ID address, set using rotary decimal switches, provide specific detector locations. The series includes a 135°F/57°C fixed temperature, rate-of-rise and a 190°F/88°C fixed high-temperature detectors. These thermal detectors provide effective, intelligent property protection in a variety of applications.



SK-HEAT-W

FEATURES & BENEFITS

- Sleek and stylish contemporary design
- Advanced thermal technology for fast response
- Fixed temperature model (SK-HEAT-W) factory preset to 135°F (57°C)
- Rate-of-rise model (SK-HEAT-W-ROR), 15°F (8.3°C) per minute
- High temperature model (SK-HEAT-W-HT) factory preset to 190°F (88°C)
- Addressable by device
- Two-wire SLC connection
- Visible LEDs “blink” every time the unit is addressed
- Built-in tamper-resistant feature
- 360°-field viewing angle of the visual alarm indicators (two bi-color LEDs). LEDs blink green in Normal condition and turn on steady red in Alarm.
- Integral communications and built-in device-type identification
- Remote test feature from the panel
- Built-in functional test switch activated by external magnet
- Walk test with address display (an address of 121 will blink the detector LED 12-(pause)-1)
- Low standby current
- Designed for directsurface or electrical box mounting
- Sealed against back pressure
- Plugs into separate base for ease of installation and maintenance
- SEMS screws for wiring of the separate base
- Optional remote, single- gang LED accessory

APPLICATIONS

Use thermal detectors for protection of property. For further information, refer to manual I56-6541, Applications Manual for System Smoke Detectors, which provides detailed information on detector spacing, placement, zoning, wiring, and special applications

INSTALLATION

The SK-HEAT-W Series plug-in intelligent thermal detectors use a separate base to simplify installation, service, and maintenance. Installation instructions are shipped with each detector

Mount base (all base types) on an electrical backbox which is at least 1.5" (3.81 cm) deep.

NOTE:

• Because of the inherent supervision provided by the SLC loop, end-of-line resistors are not required. Wiring "T-taps" or branches are permitted for Style 4 (Class "B") wiring.

• When using relay or sounder bases, consult the installation sheet for device limitations between isolator modules and isolator bases.

NOTE: Detectors must be mounted to one of the Intelligent Bases listed below.

ORDERING INFORMATION

SK-HEAT-W: Thermal heat detector, 135°F fixed, white.

SK-HEAT-ROR-W: Thermal heat detector, 135°F rate of rise, white.

SK-HEAT-HT-W: Thermal heat detector, 190°F high temp, white.

INTELLIGENT BASES

B300-6: White, standard flanged low-profile mounting base.

B300-6-BP: Bulk pack of B300-6, package contains 10.

B300-6-IV: Ivory, standard flanged low-profile mounting base.

B300A-6-IV: Ivory, standard flanged low-profile mounting base. UL listed.

B501-WHITE: White, standard European flangeless mounting base. UL listed.

B501-BL: Black, standard European flangeless mounting base. UL listed.

B501-IV: Ivory, standard European flangeless mounting base. UL listed.

B200S-WH: White, Intelligent, programmable sounder base.

B200S-IV: Ivory, Intelligent, programmable sounder base.

B200SR-WH: White, Intelligent sounder base for retrofit applications.

B200SR-IV: Ivory, Intelligent sounder base for retrofit applications.

B200S-LF-WH: White, Low Frequency Intelligent, programmable sounder base.

B200S-LF-IV: Ivory, Low Frequency Intelligent, programmable sounder base.

B200SR-LF-WH: White, Low Frequency Intelligent sounder base for retrofit applications.

B200SR-LF-IV: Ivory, Low Frequency Intelligent sounder base for retrofit applications.

B224RB-WH: White, plug-in System Sensor relay base.

B224RB-IV: Ivory, plug-in System Sensor relay base.

B224BI-WH: White, plug-in System Sensor isolator detector base.

B224BI-IV: Ivory, plug-in System Sensor isolator detector base.

ACCESSORIES

CK300: Color Kit (includes cover and trim ring), white, 10-Pack.

CK300-IV: Color Kit (includes cover and trim ring), ivory, 10-Pack.

CK300-BL: Color Kit (includes cover and trim ring), black, 10-Pack.

M02-04-01: Detector test magnet.

M02-09-00: Telescoping test magnet.

RA100Z: Remote LED annunciator

SMB600: Surface Mounting Kit (flanged).

TR300: Replacement trim ring for B300-6, white.

TR300-IV: Replacement trimring for B300-6-IV, ivory..

SK-HEAT-W Series Detector Technical Specifications

PHYSICAL

Height: 2.0" (51mm) installed in B300-6 base

Diameter: 6.2" (156mm) installed in B300-6 base 4.1" (104 mm) installed in B501 base

Weight: 3.4 oz (95 g)

ENVIRONMENTAL

Operating Temperature range:

Heat -Fixed temperature: -4°F to 100°F (-20°C to 38°C)

Heat -Rate of Rise (ROR): -4°F to 100°F (-20°C to 38°C)

Heat -High Temperature: -4°F to 150°F (-20°C to 66°C)

Humidity: 10% to 93% non-condensing

Thermal Ratings: Fixed Temperature Set point: 135°F (57°C)

Rate-of-Rise Detection: 15°F/min. (8.3°C/min

High Temperature Heat: 190°F (88°C)Electrical Ratings

ELECTRICAL RATINGS

Voltage Range: 15 to 32VDC peak

Standby current (max. avg.): 200uA @ 24 VDC (one communication every 5 seconds with LED enabled).

LED current (max.): 4.5mA @ 24 VDC ("ON").

COMPATIBILITY

The SK-HEAT-W series detectors 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 voice 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 voice system

AGENCY LISTINGS AND APPROVALS

For exact certification listings for each model, please reference the respective agency Web site.

UL listed: S2101

FM Approved

CSFM: 7270-0559:0511

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

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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

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