

# SK-HEAT-W SERIES

## Addressable Heat Detectors

The Silent Knight® SK-HEAT-W Series heat 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 series includes a 135°F/57°C fixed-temperature, rate-of-rise, and a 180°F/88°C fixed high-temperature detectors and are direct replacements for the SK-HEAT Series heat detectors. The point ID address, set using rotary decimal switches, provide specific detector locations. These thermal detectors provide effective, intelligent property protection in a variety of applications.

- SK-HEAT-W offers 135°F fixed thermal detection.
- SK-HEAT-ROR-W offers 135°F fixed and rate-of-rise thermal detection.
- SK-HEAT-HT-W provides fixed high-temperature detection at 190°F.

## FEATURES AND BENEFITS

- Designed to meet UL 268 7th Edition
- 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-ROR-W), 15°F (8.3°C) per minute
- High temperature model (SK-HEAT-HT-W) factory preset to 190°F (88°C)
- Addressable by device
- Rotary, decimal addressing (Refer to the Silent Knight panel manuals for device capacity)
- Two-wire SLC connection
- LEDs blink every time the unit is polled
- 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
- Built-in tamper-resistant feature
- Designed for direct-surface 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
- Optional sounder, relay, and isolator bases
- Optional flanged surface mounting kit

## APPLICATIONS

Use thermal detectors for protection of property. For further information, refer to manual I56-6529, 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. For a chart of compatible junction boxes, see SK-61045.

**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.

**Note:** When using relay or sounder bases, consult the SK-ISO installation sheet I56-3627 for device limitations between isolator modules and isolator bases.

## PRODUCT LINE INFORMATION

**SK-HEAT-W:** White, low-profile intelligent 135°F fixed thermal sensor

**SK-HEAT-ROR-W:** White, low-profile intelligent rate-of-rise thermal sensor

**SK-HEAT-HT-W:** White, low-profile intelligent 190°F fixed thermal sensor

**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

**B501-WHITE:** White, standard European flangeless mounting base

**B501-BL:** Black, standard European flangeless mounting base

**B501-IV:** Ivory, standard European flangeless mounting base

**B501-WHITE-BP:** Bulk pack of B501-WHITE, contains 10

**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

**TR300:** White, replacement flange for B210LP or B300-6 bases

**TR300-IV:** Ivory, replacement flange for B210LP or B300-6 bases

**RA100Z(A):** Remote 3 – 32 VDC LED annunciator, mounts to a U.S. single-gang electrical box, for use with B501 and B300-6 bases only

**M02-04-00:** Test magnet

**M02-09-00:** Test magnet with telescoping handle

**CK300:** White, detector color kit, pack of 10

**CK300-IV:** Ivory, detector color kit, pack of 10

**CK300-BL:** Black, detector color kit, pack of 10

# SK-HEAT-W SERIES TECHNICAL SPECIFICATIONS

## PHYSICAL/ENVIRONMENTAL

**Size:** 2.0" (5.3 cm) high; base determines diameter

-**B300-6:** 6.1" (15.6 cm) diameter

-**B501:** 4" (10.2 cm) diameter

For a complete list of detector bases, see SK-61045.

**Operating temperature range:** SK-HEAT-W, SK-HEAT-ROR-W: -4°F to 100°F (-20°C to 38°C)

SK-HEAT-HT-W: -4°F to 150°F (-20°C to 66°C)

**Detector spacing:** UL approved for 50 ft. (15.24 m) center to center; FM approved for 25 x 25 ft. (7.62 x 7.62 m) spacing

**Relative humidity:** 10% – 93% non-condensing

**Thermal ratings:** Fixed-temperature set point 135°F (57°C), rate-of-rise detection 15°F (8.3°C) per minute, high temperature heat 190°F (88°C)

## ELECTRICAL SPECIFICATIONS

**Voltage range:** 15 - 32 volts DC peak

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

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

## AGENCY LISTINGS AND APPROVALS

These listings and approvals apply to the modules specified in this document. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. *Consult factory for latest listing status.*

- **UL Listed:** S6228
- **FM Approved**
- **CSFM:** 7270-0559:0511

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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.

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### Honeywell Silent Knight

12 Clintonville Road  
Northford, CT 06472-1610  
203.484.7161  
www.silentknight.com

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