WSK-HEAT, WSK-HEAT-ROR, WSK-PHOTO & WSK-PHOTO-T

SWIFT® Wireless Detectors

SWIFT® (**S**mart **W**ireless **I**ntegrated **F**ire **T**echnology) wireless detectors are intelligent addressable detectors which provide secure, reliable communication to the Fire Alarm Control Panel (FACP) across a Class A mesh network. SWIFT detectors are compatible with 6000 Series Silent Knight FACPs using SK protocol.

The SWIFT detection line includes photoelectric, photo/thermal, standard fixed heat, and rate-of-rise heat detectors. The photoelectric detectors transmit a digital representation of smoke density through a wireless mesh to a gateway and the FACP. The SWIFT detection line The photo/thermal detectors combine a photoelectric chamber and a 135°F fixed temperature heat detector. The fixed heat detector and rate-of-rise detectors utilize sensors designed for open area protection with 50 foot spacing capability.

All sensors offer addressable code wheels and two LEDs controlled by the panels. Operation modes include red, green, and amber colors with various solid or blink patterns. The mesh network within the SWIFT system creates a child-parent relationship between the devices so that each device has two parents providing a second path for communications on every device. If one device becomes non-operational, remaining devices can still communicate with each other, directly or through one or more intermediate devices. The system also engages frequency hopping to prevent system interference whether intentional or accidental.

WIRELESS DETECTOR WITH B501W BASE

SWIFT devices seamlessly integrate with existing or new wired installations and provide a unique level of reliability as a result of its proprietary smart, true mesh technology. With redundant paths of communication, SWIFT provides Class A system reliability. If a wireless path is disrupted, the system automatically heals itself. It is ideal for hard-to-wire locations, buildings where new wiring is not allowed, or to provide an easy-install fire system for new construction projects.

COMPATIBILITY

The SWIFT detectors are compatible with the following Honeywell Silent Knight FACPs:

- 6820: Addressable fire alarm control panel with up to 1,110 addressable points

- 6820EVS: Addressable fire alarm control panel with an emergency mass notification system, up to 1,110 addressable points

- 6808: Addressable fire alarm control panel with up to 198 addressable points

- 6700: Addressable fire alarm control panel with up to 100 addressable points

FEATURES & BENEFITS

- SWIFT detectors include those most commonly used in fire systems to meet common needs

- No need for separate dedicated repeaters or antennas as each device acts as a repeater; lowering equipment costs and space requirements

- For enhanced reliability, SWIFT's smart mesh technology establishes redundant and continuous paths of communication. It "self-heals" if a wireless communication path is disrupted.

- SWIFT devices integrate with previously installed FACPs through the SWIFT gateway and the FACP's SLC loop, for a seamless, easy and cost-effective system addition

- Wireless devices use (4) CR-123A lithium batteries or reliable, long lasting battery life. CR-123A batteries have a UL listed life of 2 years. All devices ship with batteries.

- Ideal for hard-to-wire buildings and can be combined with hard-wired devices for enhanced design and install options

- Swift Tools provides valuable information for device placement associated with conducting Site Surveys, diagnostics, history, statistics and mesh visualization. Swift Tools can be downloaded from the Silent Knight website at no cost. It is also available on the WSK-USB.

SWIFT Detectors Technical Specifications

SPECIFICATIONS

Physical

Height: 2.4" (61 mm) installed in B501W base

Diameter: 4.0" (102mm) installed in B501W base

Device Weight (includes 4 batteries): 8.1oz (230g) installed in B501W base

ENVIRONMENTAL

Operating Temperature Range: Photo: 32°F to 120°F (0°C to 49°C); Photo/thermal with Heat: 32°F to 100°F (0°C to 38°C)

Air Velocity: Photo/thermal with Heat: 0 to 4,000 fpm (0 to 20 m/sec)

Humidity: 10 to 93% relative humidity (non-condensing)

Thermal Ratings: Fixed Temperate Set Point: 135°F (57°C); Rate-of-Rise Detection: 15°F/min (8.3°C/min)

ELECTRICAL:

Maximum Operating Voltage: 3.3VDC

Maximum Standby Current: 210µA @ 3.3VDC (one communication every 23.9 seconds with LED blink enabled)

Maximum Alarm Current (LED on): 5mA @ 3.3VDC (LED on)

Radio Frequency Range: 902-928MHz

BATTERY SPECIFICATIONS

Battery Type: 4 Panasonic CR123A or 4 Duracell DL 123A

Battery Life: 2 years

Battery Replacement: Upon TROUBLE BATTERY LOW display and/or during annual maintenance

ORDERING INFORMATION

NOTE: All devices ship with batteries.

WSK-HEAT: Wireless fixed-temperature (135° F) heat detector for use with the WSK-WGI wireless gateway, B501W base included

WSK-HEAT-ROR: Wireless rate-of-rise (135° F) heat detector for use with the WSK-WGI wireless gateway, B501W base included

WSK-PHOTO: Wireless photoelectric smoke detector for use with the WSK-WGI wireless gateway, B501W base included

WSK-PHOTO-T: Wireless multi criteria photoelectric smoke detector with thermal (135°) for use with the WSK-WGI wireless gateway, B501W base included

WSK-WGI: Wireless Gateway.

B501W: 4" wireless mounting base.

W-USB: Wireless USB radio/antenna dongle that plugs into the USB port of a PC running SWIFT Tools.

AGENCY LISTINGS AND APPROVALS

Each device complies with part 1 of the FCC rules meaning operation is subject to two conditions:

1) The device may not cause harmful interference
2) The device must accept any interference received including interference that may cause undesired operation

The listings and approvals below apply to the basic intelligent wireless detector. In some cases, certain modules may not be listed by certain approval agencies or listing may be in process. Consult factory for latest listing status.

UL Listed: S2424

CSFM: (pending)

FM: (pending)

FDNY: (pending)

For more information

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

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