SWIFT™

Intelligent Wireless Detectors

FIRE·LITE ALARMS
by Honeywell

Addressable

CITY OF PORTLAND, MAINE
Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 01/17/18

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 07/22/15

General

Fire•Lite Alarms' SWIFT™ wireless detectors are intelligent (addressable) detectors which provide secure, reliable communication to the Fire Alarm Control Panel (FACP) across a Class A mesh network. Wireless detectors create an opportunity for applications where it is costly (concrete walls/ceilings, buried wires), obtrusive (surface mount conduit), or possibly dangerous (asbestos) to use traditional wired devices. In addition, both wired and wireless devices can be present on the same FACP providing an integrated wired-wireless solution for increased installation potential.

The SWIFT detection line includes a 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 on to a FACP. 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 as approved by UL 521.

All sensors offer addressable code wheels and two LEDs. The LEDs are 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 can no longer operate for any reason, the rest of the devices can still communicate with each other, directly or through one or more intermediate devices.

The SWIFT system also engages frequency hopping to prevent system interference whether intentional or accidental.

Features

- Wireless installation
- Class A mesh network
- Addressable code wheels
- Commercial applications
- UL 268 listed
- Frequency hopping
- Bi-directional communications

Specifications

PHYSICAL / OPERATING SPECIFICATIONS

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

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

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

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)

Operating Humidity Range: 10% to 93% non-condensing

Intelligent Wireless Detector with B501W Base

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

ELECTRICAL SPECIFICATIONS

Maximum Operating Voltage: 3.3 VDC

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

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

Radio Frequency Range: 902-928 MHz

BATTERY SPECIFICATIONS

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

Battery Life: 1 year minimum tested, 2 years expected

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

Agency Listings and Approvals

Each device complies with part 15 of the FCC rules meaning operation is subject to two conditions.

1) The device may not cause harmful interference and 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: 7272-0075:0230, 7254-0075:0229

FM Approved

FCC ID: AUBWFSSD