SWIFT™

Intelligent Wireless Module

FIRE·LITE A
by Honey

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 01/17/18

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Date: 07/22/15

Ad

General

Fire•Lite Alarms' SWIFT™ wireless modules are intelligent (addressable) modules which provide secure, reliable communication to the Fire Alarm Control Panel (FACP) across a Class A mesh network. Wireless modules 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 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.

The SWIFT monitor module is intended for use with a wireless gateway or wireless FACP to interface with a device having contacts used to signal status conditions. It is designed to provide an interface to contact devices such as security contacts, waterflow switches, or pull stations. The input to the monitor module is non-latching and does not require a reset. The device has a panel controlled LED indicator. The monitor module must be within 3-feet of the monitored device.

The devices communicate across the mesh network through a gateway to the FACP. The FACP views the SWIFT wireless device and another addressable device on the system providing similar detection functions and outputs as a wired counterpart. In addition, both wired and wireless devices can be present on the same FACP to meet the needs of a given application. A SWIFT wireless system can use any combination of modules, smoke, or heat detectors.

Features

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

Specifications

PHYSICAL / OPERATING SPECIFICATIONS

Dimensions: Height 4-1/2 inches; Width 4-1/2 inches; Depth 1-1/2 inches

Device Weight (includes 4 batteries): 7.9 oz (224 g)

Operating Temperature Range: 32°F to 120°F (0°C to 49°C)

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

ELECTRICAL SPECIFICATIONS

Maximum Operating Voltage: 3.3 VDC

W-MMF Wireless Monitor Module

Average Operating Current: 210µA, 3.9 EOL

Maximum Current Draw: 5 mA (LED only)

EOL Resistance: 3.9K Ohms

Maximum IDC Wiring Resistance: 10 Ohms

Maximum IDC Voltage: 3.2 Volts

Maximum Average IDC Current: 5.5µA

Maximum Transmit RF Power: 17 dBm

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

FM Approved

FCC ID: AUBWFSMM

Standards and Codes

The SWIFT Wireless Intelligent Detectors comply with the following UL Standards and with NFPA 72 Fire Alarm System requirements.

UL 864

UL 268

Ordering Information

W-MMF: Wireless monitor module for use with the W-GATE wireless gateway. Includes a special cover with a tamper magnet built in. Recommended for installation in a SMB500 box (ordered separately) rather than a metal backbox for best performance. Ships with 4 Panasonic CR123A or 4 Duracell DL123A batteries.

W-GATE: LiteSpeed™ Wireless Gateway

W-DIS-D: LCD user interface for use with the W-GATE wireless gateway and an ANN-80W Remote Annunciator.

ANN-80-W: White 80 character LCD annunciator.

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

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ENGINEERING & MANUFACTURING QUALITY SYSTEMS

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 more information, contact Fire•Lite Alarms. Phone: (800) 627-3473, FAX: (877) 699-4105.
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