SWIFT™

Wireless System Gateway

FIRE·LITE® A
by Honey

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

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General

Fire•Lite Alarms' SWIFT™ Wireless System can be applied in many situations that are problematic for traditional wired devices. In cases where areas of a building are difficult or impossible to wire, visually sensitive, or have restricted access, SWIFT wireless sensors provide an efficient, reliable solution.

SWIFT wireless devices communicate via a proprietary wireless mesh protocol to communicate with a Fire•Lite® fire alarm system by means of a SWIFT Wireless Gateway. The SWIFT Gateway connects to the SLC loop of an MS-9200UDLS or MS-9600(UD)LS panel using LiteSpeed™ protocol.

Wireless devices in a SWIFT network develop "parent-child" communication links with other devices in the mesh, so that a message originating from a remote device "hops" to the closest parent device, and then to successive parent devices until the message reaches gateway. Alternate paths are also identified and supervised by the SWIFT protocol providing approved Class A wireless communication. If a device does not have an established communication path with adequate signal strength, an additional device such as a wireless module may be installed in between so that it will act as a repeater.

A SWIFT Gateway system supports up to 50 devices: 1 SWIFT Gateway and up to 48 wireless detectors and monitor modules, and 1 display driver. The Gateway assumes one SLC address (module), each wireless device assumes one module or detector address, and the display driver assumes one SLC address. The maximum number of gateways on a system is limited by the number of available SLC addresses on the FACP, or a maximum of 4 gateways within common wireless range. One W-DIS-D Wireless Display Driver and ANN-80-W Annunciator are required with each W-GATE installed. The W-DIS-D and ANN-80-W display wireless-specific events that cannot be displayed on the FACP.

The SWIFT system has been designed so that it can be installed using only typical hand tools and magnets. However, the SWIFT Tools PC utility provides many benefits that can enhance the process of performing a site evaluation (Site Survey), installing a system (Mesh Configuration), or extracting detailed information from the system (Diagnostics). The utility runs on a Windows® laptop, and uses a USB radio antenna (W-USB) inserted into a USB slot to communicate with wireless devices within range of the PC. Once devices have formed a mesh, SWIFT Tools can provide current information on all devices in the mesh as long as the PC is within range of the SWIFT Gateway.

The result is a fire system that combines both wired and wireless detection and presents all event information at the panel and/or display driver/annunciator.

Features

- Wireless mesh technology (902-928 MHz frequency)
- Cascading-wave mesh operation provides a verification of redundant communication paths
- Any wireless device can be added to act as a repeater
- Each gateway supports up to 50 addresses: 1 wireless gateway, 1 display driver, and up to 48 devices

W-GATE Wireless System Gateway

- Up to 4 wireless networks can be installed with overlapping radio network coverage
- Site Survey feature allows for an evaluation of a site before the installation
- Standard "code wheel" for setting the SLC address
- Wireless devices use (4) CR-123A lithium batteries
- Battery Life – UL listed for 1 year of operation and actual is expected to be approximately 2 years

SWIFT Tools

SWIFT Tools is a Windows PC-based utility that is used for site evaluation, system configuration, and diagnostics. The SWIFT Tools program is used with the W-USB adapter to communicate with wireless devices that are not joined in a network, or with one or more wireless gateways and all devices that have formed a network with each gateway. A graphic representation of the wireless network provides important system data in an effective format, including communication links, signal strength, battery voltage, and more.

Tool-less operation is supported, allowing you to perform site evaluation and system configuration and installation can be accomplished without using SWIFT Tools when necessary. Multi-colored LEDs on SWIFT devices provide feedback for interactions. At any point, only one instance of SWIFT Tools can run on a laptop or PC.

SWIFT Tools has the following utilities:

- Site Survey
- Create Mesh Network
- Diagnostics

SWIFT Tools works in a wireless environment with the W-GATE and devices within a range of approximately 20 feet.

SWIFT Tools is designed for systems running Microsoft Windows.

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MINIMUM SYSTEM REQUIREMENTS

Operating System: Windows XP Professional (SP3), Vista, Windows 7, and Windows 8 (32 bit and 64 bit).

Hard Drive: 20 GB hard drive space with minimum 1GB free space on hard disk.

RAM: Minimum 512MB RAM.

Processor speed: 1GHz minimum (2 Processor, 512K Cache.

Example of SWIFT Tools' Diagnostic Utility

SWIFT Components and Ordering Information

- **W-GATE:** Fire•Lite Wireless SWIFT Gateway - 1 SWIFT Gateway is required for each wireless mesh, and supports up to 48 SWIFT detectors or modules, and one display driver. Connects to the SLC loop of a compatible panel using LiteSpeed protocol. Power may be supplied by the SLC circuit or via an optional 24VDC input.

NOTE: *Use of the 24VDC input may be more convenient for service as it allows for powering down a gateway without shutting down an SLC loop.*

- **W-DIS-D:** LCD user interface for use with the W-GATE wireless gateway and an ANN-80-W Remote Annunciator. Connects to the FACP via the ANN-BUS. Both W-DIS-D and ANN-80-W are required to display trouble and supervisory conditions that are specific to the W-GATE and its devices. One W-DIS-D is required for each W-GATE.
- **ANN-80-W:** White 80 character LCD annunciator used with the W-DIS-D to display wireless-specific events not display ed on the FACP.
- **W-SD355:** intelligent, wireless photo detector. Ships with B501W base included. Requires (4) CR-123A batteries (included).
- **W-H355R:** intelligent wireless rate of rise heat detector. Ships with B501W base included. Requires (4) CR-123A batteries (included).
- **W-SD355T:** intelligent wireless photo/heat detector. Ships with B501W base included. Requires (4) CR-123A batteries (included).
- **W-H355:** intelligent wireless fixed-temperature heat detector. Ships with B501W base included. Requires (4) CR-123A batteries (included).
- **W-MMF:** wireless monitor module. Used to monitor devices with mechanical contact actuation. 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. (See data sheet for more information).
- **W-PTOOL:** SWIFT Tools programming and diagnostic utility. Free download from firelite.com. For installation on a (typically laptop) PC running an approved version of Windows (See Minimum System Requirements for SWIFT Tools). Requires the W-USB radio/antenna dongle for communication with SWIFT Wireless devices.
- **W-USB:** Wireless USB radio/antenna dongle that plugs into the USB port of a PC running SWIFT Tools. The W-USB provides a communication link with SWIFT Wireless devices that are within approximately 20 feet and have not formed a mesh. Alternately, when the devices have formed a mesh, bringing the PC/W-USB within range (20 ft.) of the gateway for that mesh will allow SWIFT Tools to acquire information on all devices in that mesh, including point-to-point signal strength for all links.

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Agency Listings and Approvals

The listings and approvals below apply to the W-GATE. 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: 7300-0075:0232

FM Approved

FCC ID: PV3WFSGW

Standards and Codes

The SWIFT Wireless System complies with the following UL Standards and with NFPA 72 Fire Alarm system requirements.

UL 864

UL 268

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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.

Made in the U.S. A.

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