W-SD355, W-SD355T, W-H355R(A), W-H355(A)

SWIFT Wireless Detectors

FIRE·LITE ALARMS
by Honeywell

Intelligent Wireless Devices

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 $135°F$ $(57°C)$ 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.

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 and heat detectors, pull stations, and A/V bases.

Features

- Wireless installation
- Class A mesh network
- Addressable code wheels
- Commercial applications
- UL 268 listed; ULC S530 listed Canadian heat detectors
- Frequency hopping
- Bi-directional communications

Compatible Control Panels

NOTE: *Refer to panel documentation for UL/ULC compatibility.*

- ES-50X/C
- ES-200X/C
- MS-9200UDLS *(UL applications)*
- MS-9600(UD)LS *(UL applications)*

Components and Ordering Information

- **W-SD355:** Intelligent, wireless photo detector. Ships with B501W base included. Requires (4) CR-123A batteries (included). UL listed.
- **W-SD355T:** intelligent wireless photo/heat detector. Ships with B501W base included. Requires (4) CR-123A batteries (included). UL listed.
- **W-H355R(A):** Intelligent wireless rate of rise (135°F/57°C) heat detector. Ships with B501W base included. Requires (4) CR-123A batteries (included). Order W-H355RA for ULC applications.
- **W-H355(A):** Intelligent wireless fixed-temperature (135°F/57°C) heat detector. Ships with B501W base included. Requires (4) CR-123A batteries (included). Order W-H355A for ULC applications.
- **W-GATE(A)**: Fire•Lite Wireless SWIFT Gateway. One SWIFT Gateway is required for each wireless mesh, and supports up to 48 SWIFT detectors or modules. 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. See *DF-60821* for other components available for use with the SWIFT Gateway. Order W-GATEA for ULC applications.

  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.*

- **SMB500-WH**: Optional surface-mount backbox.

SYSTEM SPECIFICATIONS

Physical/Operating Specifications

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

Diameter: 4.0 in. (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)

Air Velocity: 0 to 4,000 fpm (0 to 20 m/sec)

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

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

Electrical Specifications

Radio Frequency Range: 902-928 MHz

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

Agency Listings and Approvals

The file number(s) below reference the specific listings for the equipment 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 the factory for the latest listing status.

- **UL Listed:** S1059 (Photo, Photo/Heat) & S2517 (Heat)
- **ULC Listed:** S2517 (Heat detectors only)
- **CSFM:** 7272-0075:0230, 7254-0075:0229
- **FM Approved**
- **FCC ID:** AUBWFSSD

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.

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
- ULC S530/CAN/ULC S529 (Canadian heat detectors)

ISO 9001
CERTIFIED
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. www.firelite.com
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