

SWIFT WIRELESS DETECTORS

TC806W1000, TC840W1000, TC808W1000(CDN), TC808W2010(CDN)

SWIFT® wireless detectors are intelligent, addressable detectors which provide secure, reliable communication to the Fire Alarm Control Panel (FACP)

SWIFT wireless detectors communicate 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 Fire Alarm Control Panel (FACP) providing an integrated wired-wireless solution for increased installation potential.

The SWIFT detection line includes a photoelectric, photo-heat, 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 TC840W1000 Acclimate® detectors combine a photoelectric chamber and a 135°F (57°C) fixed temperature heat detector. Acclimate can also transmit an alarm signal due to heat per UL 521. The fixed heat detector and rate-of-rise detectors use sensors designed for open area protection with 50 foot spacing capability as approved by UL 521 and ULC S530.

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.



SWIFT Wireless Detector in B210W Base

FEATURES AND BENEFITS

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

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COMPATIBLE CONTROL PANELS

Note: Refer to panel documentation for UL/ULC compatibility.

- XLS4000 (UL applications)
- XLS3000
- XLS140-2
- XLS120/C

COMPONENTS AND ORDERING INFORMATION

- **TC806W1000:** Intelligent, wireless photo detector. Requires one B210W base for installation. Requires (4) CR-123A batteries (included). UL listed.
- **TC840W1000:** Intelligent wireless Acclimate® heat and photo detector using combined heat and smoke sensor information and the ability to automatically adjust sensitivity based on ambient changes in the environment. Requires one B210W base for installation. Requires (4) CR-123A batteries (included). UL listed.
- **TC808W1000(CDN):** Intelligent wireless rate of rise (135°F/57°C) heat detector. Requires one B210W base for installation. Requires (4) CR-123A batteries (included). Order TC808W1000CDN for ULC applications.
- **TC808W2010(CDN):** Intelligent wireless fixed-temperature (135°F/57°C) heat detector. Requires one B210W base for installation. Requires (4) CR-123A batteries (included). Order TC808W2010CDN for ULC applications.
- **XLS-WSG(CDN):** Wireless SWIFT Gateway. One SWIFT Gateway is required for each wireless mesh, and supports up to 49 SWIFT detectors or modules. Connects to the SLC loop of a compatible panel using FlashScan protocol. See 74-5175 for other components available for use with the SWIFT Gateway. Order XLS-WSGCDN for ULC applications.
- **B210W:** Detector base used for wireless detectors. Includes a built-in magnet so that wireless devices can establish installed and tampered states.

SWIFT WIRELESS DETECTORS TECHNICAL SPECIFICATIONS

PHYSICAL / OPERATING

Height: 2.4" (61 mm) installed in B210W base

Diameter: 6.0" (152mm) installed in B210W base

Device Weight (includes 4 batteries): 9.2 oz (261 g) installed in B210W base

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

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

Operating Humidity Range: 10% - 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

Radio Frequency Range: 902-928 MHz

BATTERY

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

Battery Life: 2 years

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

AGENCY LISTINGS AND APPROVALS

The file number(s) below reference the specific listings for the basic intelligent wireless detectors. In some cases, certain devices may not be listed by certain approval agencies or listing may be in process. Consult Honeywell for latest listing status.

- **UL Listed:** S1196 (Photo/PhotoHeat), S751 (Heat)
- **ULC Listed:** S751 (Canadian heat detectors)
- **CSFM:** 7272-1130:0291, 7254-1130:0290
- **FM Approved**
- **FCC ID:** AUBWFSSD
- **IC ID:** 573X-WFSSD

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 268 / UL 529 (Photo detectors)
- UL 521 (Heat detectors)
- ULC S530 (Canadian heat detectors)

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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.

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