FW-MM & FW-RM SWIFT Wireless Modules

The SWIFT® wireless monitor module is intended for use with a wireless gateway 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 when using field wiring or 20 feet in non-metallic conduit.

The SWIFT wireless relay module allows the control panel to switch contacts by code command. The relay contains an isolated set of Form-C contacts, which operate as a SPDT switch. Circuit connections to the relay are not supervised by the module. The SWIFT relay module can be used to activate functions such as a remote power supply (in conjunction with a monitor module), elevator recall, door holders and fan shutdown of wired devices or SWIFT devices within the same mesh network. The module also includes a panel-controlled LED indicator.

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 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, pullstations, and AV bases.

Features

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

Compatible Control Panels

- NFS2-3030
- NFS-320
- NFW-100X
- NFS2-640
- NFS-320SYS
- NFW-50X
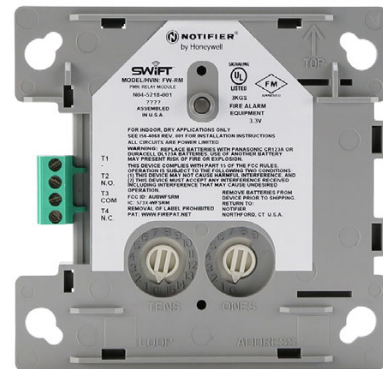
FW-RM Wireless Relay Module

Monitor Module 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

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: 2 years

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

Relay Module Specifications

PHYSICAL / OPERATING SPECIFICATIONS

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

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

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

ELECTRICAL SPECIFICATIONS

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: 2 years

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

Relay Contact Ratings

Current Rating	Maximum Voltage	Load Description	Application
2 A	25 VAC	PF = 0.35	Non-coded
3 A	30 VDC	Resistive	Non-coded
2 A	30 VDC	Resistive	Coded
0.46 A	30 VDC	(L/R = 20ms)	Non-coded
0.7 A	70.7 VAC	PF = 0.35	Non-coded
0.9 A	125 VDC	Resistive	Non-coded
0.5 A	125 VAC	PF = 0.75	Non-coded
0.3 A	125 VAC	PF = 0.35	Non-coded

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 modules. 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: S635

CSFM (Monitor Module)**:** 7300-0028:0273; (Relay module): 7300-0028:0277

FM Approved

FCC ID: (Monitor Module) AUBWFSMM and (Relay Module) AUBWFSRM

IC ID: (Monitor Module) 573X-WFSMM and (Relay Module) 573X-WFSRM

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

SWIFT Devices and Ordering Information

- **FW-MM:** FlashScan wireless monitor module. Used to monitor devices with mechanical contact actuation. Includes a special cover with a built-in tamper magnet. Recommended for installation in a SMB500-WH box (ordered separately) rather than a metal backbox for best performance. Requires (4) CR-123A batteries (included).

- **FW-RM:** Wireless relay module. Includes a special cover with a built-in tamper magnet. Recommended for installation in an SMB500-WH box (ordered separately) rather than a metal backbox for best performance. Requires (4) CR-123A batteries (included).

- **FWSG:** FlashScan Wireless SWIFT Gateway - 1 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. Power may be supplied by the SLC circuit or via an optional 24VDC input.

- **FWD-200P:** FlashScan intelligent, wireless photo detector. Requires one B210W base for installation. Requires (4) CR-123A batteries (included).

- **FWD-200ACCLIMATE:** FlashScan 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).

- **FWH-200ROR135:** FlashScan intelligent wireless rate of rise (135°) heat detector. Requires one B210W base for installation. Requires (4) CR-123A batteries (included).

- **FWH-200FIX135:** FlashScan intelligent wireless fixed-temperature (135°) heat detector. Requires one B210W base for installation. Requires (4) CR-123A batteries (included).

- **NBG-12WL**: Wireless addressable pullstation. Requires (4) CR-123A batteries (included).

- **NBG-12WLSP**: Wireless addressable pullstation. Spanish text. Requires (4) CR-123A batteries (included).

- **WAV-CRL, WAV-CWL:** SWIFT Wireless Addressable A/V bases. Requires (8) CR-123A batteries (included). Requires a non-compact ceiling System Sensor® L-series notification device (ordered separately).

- **W-SYNC:** Wireless sync module. Requires (4) CR-123A batteries (included).

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

- **B210W:** Detector base used for wireless detectors. Includes a built-in magnet so that wireless devices can establish installed and tampered states.

- **SWIFT Tools:** Programming and diagnostic utility. Free download from www.notifier.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.

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W-SYNC SWIFT Sync Module

General

The **SWIFT® synchronization module (W-SYNC)** provides audio and visual synchronization between SWIFT notification appliances and System Sensor wired notification appliances supporting the integrated wired-wireless solution. The module only operates with notification appliances that use the System Sensor synchronization protocol. Synchronization of the SWIFT notification appliances within a single mesh network is inherent in the wireless system so a wireless synchronization module is not needed. The W-SYNC also provides wireless control and monitoring of a Notification Appliance Circuit (NAC) expander or power supply. The wireless synchronization module operates from 24V power with supplemental battery support and communicates through the mesh network with the gateway and FACP.

SWIFT SYSTEM OVERVIEW

The SWIFT Smart Wireless Integrated Fire Technology wireless system offers intelligent (addressable) devices which provide secure, reliable communication to the Fire Alarm Control Panel (FACP) across a Class A mesh network. Wireless devices 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. It allows fast installation for time-critical situations and provides the flexibility to add wireless onto wired systems for retrofit installations. Both wired and wireless devices can be present on the same FACP for an integrated solution.

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. Once an initial mesh network is formed, mesh restructuring automatically occurs to find the strongest paths possible within the network.

The SWIFT system also engages frequency hopping to prevent system interference whether intentional or accidental. Each device complies with FCC Title 47 Part 15c: 1) The device may not cause harmful interference and 2) The device must accept any interference received including interference that may cause undesired operation.

Features

- Class A mesh network
- Addressable code wheels
- Commercial applications
- UL 864 listed
- Frequency hopping
- Bi-Directional Communications
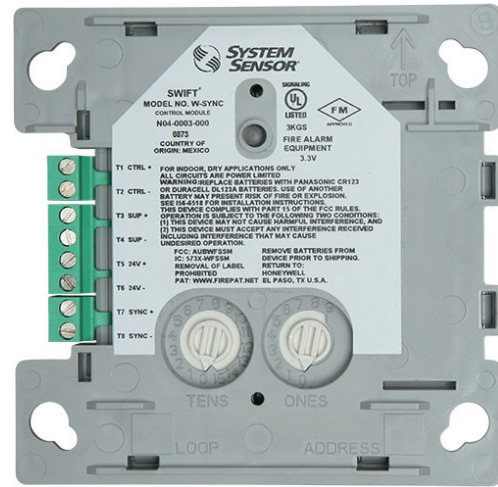
W-SYNC SWIFT® Synchronization Module

Specifications

PHYSICAL/OPERATING SPECIFICATIONS

- **Dimensions:** Height 4.25 in. (10.8 cm); Width 4.25 in. (10.8 cm); Depth 1.5 in. (3.8 cm)
- **Weight:** 8.5 oz. (241 grams) includes 4 batteries

ELECTRICAL SPECIFICATIONS

- **Maximum Transmit RF Power:** 17 dBm
- **Radio Frequency Range:** 902-928 MHz
- **Temperature Range:** 32°F to 120°F (0°C to 49°C)
- **Humidity:** 10% to 93% Non-condensing
- **Battery Type (Supplemental):** 4 Panasonic CR123A or 4 Duracell DL123A
- **Battery Life:** 2 year minimum
- **Battery-only Current Draw:** 268 µA (with 3.9k ELR)
- **Battery Replacement:** Upon TROUBLE BATTERY LOW display and/or during annual maintenance

PART NO./DESCRIPTION

- **W-BATCART:** Wireless battery cartridge 10-pack
- **SMB500-WH:** White surface mount back box
- **WAV-CRL:** Wireless AV base, ceiling, red
- **WAV-CWL:** Wireless AV base, ceiling, white
- **W-SYNC:** Wireless sync module

Standards

The W-SYNC SWIFT Sync Module is designed to comply with the following standards:

- UL 864 9th Edition and 10th Edition
- NFPA 72

Agency Listings and Approvals

These listings and approvals apply to the modules specified 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:** S3705, Vol.2
- **FM Approved:** 3062564
- **CSFM:** 7300-1653:0160

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