DATA SHEET

FIK-W-MONITOR & FIK-W-RELAY

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.

FIK-W-MONITOR

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.

FIK-W-RELAY

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 a given application's needs. A SWIFT wireless system can use any combination of modules, smoke, or heat detectors.

SWIFT wireless modules are intelligent (addressable) modules that 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.

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The mesh network within the SWIFT system creates a child-parent relationship between the devices. 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.

COMPATIBLE CONTROL PANELS

- FCP-75
- FCP-300 / FCP-300ECS
- FCP-2100 / FCP-2100ECS
- RFCP-2100

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 detectors. Certain devices may not be listed by certain approval agencies or listing may be in process in some cases. Consult the factory for the latest listing status.

- UL Listed: S3511
- Factory Mutual Approved
- CSFM: (Monitor Module): 7300-0559:0507 and (Relay Module): 7300-0559:0508
- FCC ID: (Monitor Module) AUBWFSMM and (Relay Module) AUBWFSRM
- Complies with the requirements of NFPA 72, UL 864, and UL 268

For exact certification listings, please reference the respective agency website.

MONITOR MODULE SPECIFICATIONS

PHYSICAL / OPERATING	
Dimensions (HxWxD):	4.5” x 4.5” x 1.5” (114.3 x 114.3 x 38.1 mm)
Device Weight (includes four 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% RH, non-condensing
ELECTRICAL	
EOL Resistance:	3.9K Ohms
Maximum IDC Wiring Resistance:	10 Ohms
Maximum IDC Voltage:	3.2 Volts
Maximum Average IDC Current:	5.5 µA
Maximum Transmit RF Power:	17 dBm
Radio Frequency Range:	902 – 928 MHz
Battery Type:	4 Panasonic® CR123A or 4 Duracell® DL 123A
Battery Life:	Two years (replace battery upon BATTERY LOW or BAT LOW display and/or during annual maintenance)

RELAY MODULE SPECIFICATIONS

PHYSICAL / OPERATING				
Dimensions (HxWxD):	4.5” x 4.5” x 1.5” (114.3 x 114.3 x 38.1 mm)			
Device Weight (includes four 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% RH, non-condensing			
ELECTRICAL				
Maximum Transmit RF Power:	17 dBm			
Radio Frequency Range:	902 – 928 MHz			
Battery Type:	4 Panasonic® CR123A or 4 Duracell® DL 123A			
Battery Life:	Two years (replace battery upon BATTERY LOW or BAT LOW display and/or during annual maintenance)			
Relay Contact Ratings:	Current Rating	Maximum Voltage	Load Description	Application
	2A	25 VAC	PF = 0.35	Non-coded
	3A	30 VDC	Resistive	Non-coded
	2A	30 VDC	Resistive	Coded
	0.46A	30 VDC	L/R = 20ms	Non-coded
	0.7A	70.7 VAC	PF = 0.35	Non-coded
	0.9A	125 VDC	Resistive	Non-coded
	0.5A	125 VAC	PF = 0.75	Non-coded
	0.3A	125 VAC	PF = 0.35	Non-coded

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ORDERING INFORMATION

Part Number	Description
FIK-W-MONITOR	Wireless monitor module. It is used to monitor devices with mechanical contact actuation. Includes a special cover with a built-in tamper magnet. It is recommended for installation in a SMB500-US box (ordered separately) rather than a metal backbox for best performance. Requires (4) CR-123A batteries (included).
FIK-W-RELAY	Wireless relay module for use with the FIK-W-WGI wireless gateway. Includes a special cover with a built-in tamper magnet. It is recommended for installation in a SMB500-US box (ordered separately) rather than a metal backbox for best performance. Requires (4) CR-123A batteries (included).
FIK-W-WGI	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 FIK-IDP protocol. Power may be supplied by the SLC circuit or via an optional 24 VDC input.*
FIK-W-PHOTO	Intelligent, wireless photo detector. Requires one B210W base for installation. Requires (4) CR-123A batteries (included).
FIK-W-ACCLIMATE	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).
FIK-W-HEAT-ROR	Intelligent wireless rate of rise (135°F) heat detector. Requires one B210W base for installation. Requires four CR-123A batteries (included).
FIK-W-HEAT	Intelligent wireless fixed-temperature (135°F) heat detector. Requires one B210W base for installation. Requires (4) CR-123A batteries (included).
FIK-W-PULL-DA	Wireless addressable pull station. Requires (4) CR-123A batteries (included).
WAV-CRL, WAV-CWL	SWIFT Wireless Addressable A/V bases. Required (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-US	Optional surface-mount back box.
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 (requires Windows® based PC).
W-USB	Wireless USB radio/antenna dongle that plugs into the USB port of a PC running SWIFT tools. Provides a communication link with the SWIFT Wireless devices.
W-BATCART	Wireless battery cartridge. 10-pack. For use with wireless pull stations and A/V bases.

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

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