TC809W1000(CDN), TC810RW1000(CDN)

SWIFT Wireless Modules

The SWIFT® Wireless Modules provide an interface to contact devices such as security contacts, waterflow switches, or pull stations

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.

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, or heat detectors.

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.
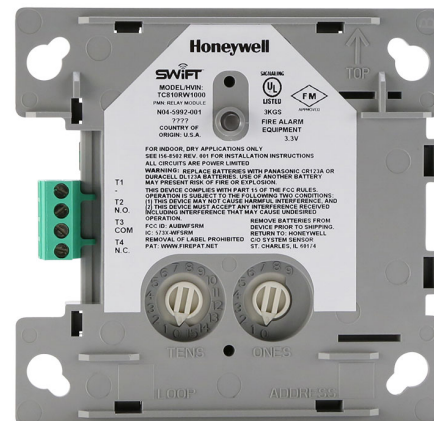
TC810RW1000 Wireless Relay Module
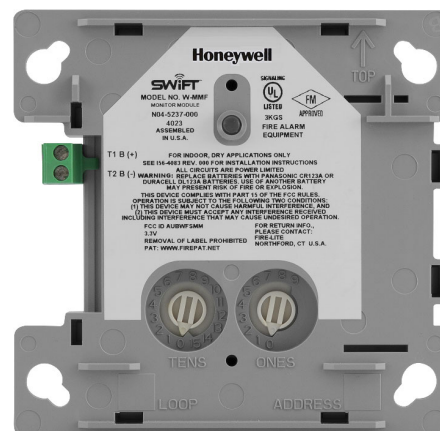
TC809W1000 Wireless Monitor Module

FEATURES AND BENEFITS

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

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COMPATIBLE CONTROL PANELS

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

COMPONENTS AND ORDERING INFORMATION

- **TC809W1000(CDN):** 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). Order TC809W1000CDN for ULC applications.
- **TC810RW100(CDN):** Wireless relay module for use with the XLS-WSG(CDN) wireless gateway. 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). Order TC810RW100CDN for ULC applications.
- **XLS-WSG(CDN):** 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. See 74-5175 for other components available for use with the SWIFT Gateway. Order XLS-WSGCDN for ULC applications.
- **SMB500-WH:** Optional surface-mount backbox.

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 Honeywell for latest listing status.

- **UL/ULC Listed**: S470
- **CSFM**:
  (Monitor Module)**:** 7300-1130:0292;
  (Relay module): 7300-1130:0296
- **FM Approved**
- **NYC Fire Dept. Approved**
- **FCC ID:**
  (Monitor Module) AUBWFSMM
  (Relay Module) AUBWFSRM
- **IC ID:**
  (Monitor Module) 573X-WFSMM
  (Relay Module) 573X-WFSRM

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 monitor and relay modules comply with the following UL Standards and with NFPA 72 Fire Alarm System requirements.

- UL 864
- UL 268
- ULC S527

TC809W1000(CDN), TC810RW1000(CDN) TECHNICAL SPECIFICATIONS

MONITOR MODULE

Physical/Operating

Dimensions: Height 4.5" (11.43 cm); Width 4.5" (11.43 cm); Depth 1.5" (3.81 cm)

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

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

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

Physical/Operating

Dimensions: Height 4.5" (11.43 cm); Width 4.5" (11.43 cm); Depth 1.5" (3.81 cm)

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

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

Electrical

Maximum Transmit RF Power: 17 dBm

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

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

THE FUTURE IS WHAT WE MAKE IT

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