WAV-CRL, WAV-CWL, WAV-RL, and WAV-WL

SWIFT Wireless AV Base

General

SWIFT® AV bases are intended for use with compatible System Sensor L-Series AV notification appliances to meet a comprehensive range of notification requirements. The AV Base provides power for the audio and visual signals and supports wireless communication with the Fire Alarm Control Panel (FACP). The L-Series AV notification appliance is mounted directly to the wireless AV base allowing flexibility in color, placement and signal output.

Power is supplied through two sets of 4 batteries – one set provides power for wireless communication, and the other provides power for the notification appliance's audio and/or visual signal. Battery life of the wireless portion is UL listed for at least 2 years. Battery life for the AV set of batteries depends upon the activation time and output level of the audio or visual signal. The AV base boosts output voltage to support 24 VDC options on connected devices.

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 24 V power with supplemental battery support and communicates through the mesh network with the gateway and Fire Alarm Control Panel (FACP).

SWIFT System Overview

The SWIFT Smart Wireless Integrated Fire Technology wireless system offers intelligent (addressable) devices which provide secure, reliable communication with the 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.

FEATURES & BENEFITS

- Converts compatible System Sensor L-Series AV appliances to addressable wireless AV appliances

- Wireless installation
- Class A mesh network

- Commercial applications

- Listed to:
  —UL 464
  —UL 1638
  —UL 1971

- Frequency hopping
- Bi-Directional Communications

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 part 15 of the FCC rules: 1) The device may not cause harmful interference and 2) The device must accept any interference received including interference that may cause undesired operation.

COMPATIBLE EQUIPMENT

SYSTEM SENSOR L-SERIES AV DEVICES	
Model	Description
CHRL	Chime Red Wall
CHSCRL	Chime/Strobe Red Ceiling
CHSCWL	Chime Strobe White Ceiling
CHSRL	Chime Strobe Red Wall
CHSWL	Chime Strobe White Wall
CHWL	Chime White Wall
HRL	Horn Red Wall
HWL	Horn White Wall
P2RL	Horn/Strobe 2-wire Red Wall
P2RL-P	Horn Strobe 2-wire Red Wall, Plain
P2RL-SP	Horn Strobe 2-wire Red Wall, Fuego
P2WL	Horn Strobe 2-wire White Wall
P2WL-P	Horn Strobe 2-wire White Wall, Plain
P2WL-SP	Horn Strobe 2-wire White Wall, Fuego
PC2RL	Horn Strobe 2-wire Red Ceiling
PC2WL	Horn Strobe 2-wire White Ceiling
SCRL	Strobe Red Ceiling
SCWL	Strobe White Ceiling
SCWL-CLR-ALERT	Strobe White Ceiling Clear Lens Alert
SRL	Strobe Red Wall
SRL-P	Strobe Red Wall, Plain
SRL-SP	Strobe Red Wall, Fuego
SWL	Strobe White Wall
SWL-ALERT	Strobe White Wall, Amber Lens
SWL-CLR-ALERT	Strobe White Wall, Clear Lens
SWL-P	Strobe White Wall, Plain

WAV-CRL, WAV-CWL, WAV-RL, and WAV-WL Technical Specifications

PHYSICAL/OPERATING SPECIFICATIONS

Dimensions (Ceiling): Diameter 7.4" (19 cm); Depth 1.6" (4 cm)

Weight (Ceiling): 20.0 oz (567 g) installed with 8 batteries

Dimensions (Wall): Height 6" (15 cm); Width 5.1" (13 cm); Depth 1.6" (4 cm)

Weight (Wall): 17.6 oz (499 g) installed with 8 batteries

ELECTRICAL SPECIFICATIONS

RF Operating Voltage Range: 3.3 VDC

RF Maximum Current Draw: 5 mA (LED On)

RF Operating Voltage: 12 VDC

AV Output, Operating Voltage: 24 VDC (nominal)

AV Maximum Standby Current: 6.5 mA

AV Maximum Alarm Current: 550 mA

Standby Current: 210 µA @ 3.3 VDC (LED blink enabled)

Maximum Transmit RF Power: 17 dBm

Radio Frequency Range: 902-928 MHz

Operating Humidity Range: 10% to 93% Relative Humidity, Non-condensing

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

Battery Type: 8 Panasonic® CR123A or 8 Duracell® DL123A

Battery Life: *RF batteries:* 2 year minimum.
AV batteries: See Battery Life table.

Battery Replacement: Replace during annual maintenance or when TROUBLE BATTERY LOW displays.

ORDERING INFORMATION

W-BATCART: Wireless battery cartridge 10-pack

WAV-CRL: Wireless AV base, ceiling, red

WAV-CWL: Wireless AV base, ceiling, white

WAV-RL*: Wireless AV base, wall, red

WAV-WL*: Wireless AV base, wall, white

W-SYNC: Wireless sync module

*NOTE: WAV-RL & WAV-WL are compatible with wall-mount L-Series devices manufactured after 26 April 2019 (date code 9045 and later). WAV-CRL and WAV-CWL are compatible with all ceiling-mount L-Series devices.

STANDARDS

The WAV-CRL, WAV-CWL, WAV-RL, and WAV-WL 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/ULC Listed: S4011
FM Approved: 3062564
CSFM: 7300-1653:0513

AV BATTERY LIFE AT TEMPORAL 3, AMBIENT CONDITIONS

Model	Model Type	Battery Life (Minutes), per Candela Setting									
		Minutes at 15 cd	Minutes at 30 cd	Minutes at 75 cd	Minutes at 95 cd	Minutes at 110 cd	Minutes at 115 cd	Minutes at 135 cd	Minutes at 150 cd	Minutes at 177 cd	Minutes at 185 cd
Chime-only	Wall	127h 23m	–	–	–	–	–	–	–	–	–
	Ceiling	–	–	–	–	–	–	–	–	–	–
Horn-only	Wall	31h 51m	–	–	–	–	–	–	–	–	–
	Ceiling	–	–	–	–	–	–	–	–	–	–
Strobe-only	Wall	20h 44m	14h 09m	8h 20m	7h 22m	6h 02m	–	5h 11m	–	–	4h 01m
	Ceiling	21h 45m	14h 09m	8h 02m	6h 39m	–	5h 39m	–	4h 43m	3h 57m	–
Chime-Strobe	Wall	18h 12m	12h 55m	7h 58m	6h 31m	5h 18m	–	4h 26m	–	–	3h 37m
	Ceiling	18h 35m	12h 44m	7h 41m	6h 28m	–	5h 24m	–	4h 29m	3h 45m	–
Horn-Strobe	Wall	16h 31m	12h 03m	7h 22m	6h 17m	5h 30m	–	4h 33m	–	–	3h 38m
	Ceiling	12h 34m	9h 54m	6h 14m	5h 24m	–	4h 46m	–	4h 07m	3h 31m	–

Note: Battery life will decrease using continuous tone or other coded patterns and under non-ambient environmental conditions.

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