

8/28/2024

LTX HANGAR

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Intelligent Fire Panel with Voice

6820EVS

Emergency Voice System and Fire Alarm Control Panel

The 6820EVS is a fire alarm control panel (FACP) and emergency mass notification system conveniently integrated and housed in one panel, and meets the requirements for mass notification as described in UL 2572. The 6820EVS is a direct replacement for the 5820XL-EVS panel. The 6820EVS can be configured to achieve an overall point capacity of up to 1110 points and connect up to 17 panels in a single communications link.

The 6820EVS has one built-in signaling line circuit (SLC), which can support 159 (SK) System Sensor® sensors and 159 SK modules or 127 (SD) Hochiki® devices per loop. To increase point capability, additional SLC loops can be added using the 6815 SLC expander for SK devices or the 5815XL expander for SD devices, increasing the point capacity to a maximum of 1110 points for SK devices and 635 points for SD devices. Three additional SLCs are needed to reach 1110 points (SK devices). Four additional SLCs are needed to reach 635 points (SD devices).

The common communications and annunciation link allows up to 17 panels to be connected via copper or fiber optic cable. A designated panel is configured as the communicator for all panels in the link for convenient single-point communications. It also has a built-in, dual-line POTs and IP communicator with optional cellular reporting available.

The emergency communication system operations include an onboard supervised microphone, and all-call and non-active call buttons can quickly select all active or all non-active output groups. The system also allows for ECS messages to take priority over fire.

SWIFT® wireless compatibility provides options for wireless detection through a Class A mesh network. It is ideal for hard-to-wire locations,



6820EVS

buildings where new wiring is not allowed, or to provide an easy install fire system for new construction projects. SWIFT devices can be combined with other hard-wired 6820EVS compatible devices.

The 6820EVS has a form-C trouble relay, and two programmable form-C relays, along with powerful features such as drift compensation, pre-trouble maintenance alert, a built-in sensor test to comply with NFPA 72 calibration testing requirements, and calibration trouble alert. The 6820EVS supports a variety of devices, including the 6860, 5860, and 6855 remote annunciators, 5824 serial parallel printer interface module (for printing system reports), the 5496 NAC expander, 5895XL power module, and SK or SD devices.

The panel also has four user-programmable buttons which are ideal for programming simple, complex, and routine tasks.

FEATURES & BENEFITS

- Up to 1110 points for greater design flexibility. Additional SLCs can be added until maximum point levels are reached
- Connect up to 17
 panels on one site with
 convenient single point access;
 compatible with mixed
 FACP models
- 15 recordable one minute messages can be mapped to eight different EVS buttons
- Built-in USB interface for convenient programming
- Convenient field-upgradeable firmware
- Built-in annunciator with a large 160 character, 4 x40 LCD display
- Four userprogrammable buttons minimize time spent executing complex or routine tasks
- 16 built-in speaker group switches; expandable to 32

- JumpStart® auto programming feature for easy programming
- Built-in dual path POTS and IP communications with optional cellular models available for reliable backup reporting
- Programmable date setting for automatic and Daylight Saving Time changes
- Flexput® circuits can be individually programmed to function as notification circuits, auxiliary power outputs, or initiating circuits that support both 2- and 4- wire smoke detectors

SIGNAL LINE CIRCUIT (SLC)

The 6815 signal line circuit (SLC) supports multiple device types of SK protocol, while the 5815XL signal line circuit (SLC) supports multiple device types of SD protocol. You cannot mix SD and SK SLC devices on a FACP.

The 6820EVS has one built-in signaling line circuit (SLC) which supports multiple devices. Additional points can be added using up to three 6815 SLC expanders to increase overall capacity to 1,110 maximum points (SK devices) or by adding up to four 5815XL SLC expanders to reach 635 maximum points (SD devices). The number of SLCs which can be used within one system is only limited by point count. (See the Manual for additional information.)

The 6820EVS SLC loops support multiple device types, maintenance alerts, and a built-in sensor test to comply with NFPA 72 calibration testing requirements.

INDICATOR LIGHTS

- General Alarm (Red): Flashes if in alarm; solid when alarm is silenced
- Supervisory (Yellow): Flashes if a supervisory condition exists; solid when supervisory is silenced
- System Troubles (Yellow): Flashes if a trouble condition exists; solid when trouble is silenced
- System Silenced (Yellow): On when an alarm, trouble or supervisory condition has been silenced but not yet cleared
- System Power (Green): Flashes for AC failure; solid when power systems are normal

USER INTERFACE

The 6820EVS built-in 4 x 40 annunciator with 160 character LCD display and large easy-to-use tactile touchpad can be used for system operation, programming and maintenance. It has five LEDs for

alarm, supervisory, system trouble, system silenced and system power. System operations include silencing alarms and troubles, resetting alarms and the display of alarm troubles and memory. The system's non-volatile event history buffer stores 1,000 events for viewing from the built-in or remote annunciator. System operations can be initiated with a mechanical firefighter's key or a valid 4- to 7-digit operator's code.

PROGRAMMING

The 6820EVS system offers several options to simplify and speed-up programming. JumpStart®
AutoProgramming minimizes programming required to start a new system. The built-in keypad, or the 6860, 5860 or 6855 remote annunciators give you on-site access to current system programming. Programming can also be accomplished using the Windows®-based Honeywell Fire Software Suite (HFSS) program.

SOFTWARE TOOLS

SKST: Silent Knight Selection Tool provides the installer or design architect with a Windows® software system configuration tool to create a detailed Bill of Material (BOM) and battery calculations.

HFSS: Honeywell Fire Software Suite provides communication and panel programming, detector status, event history and additional data. Requires a PC running Microsoft® Windows®.

ADDITIONAL INFORMATION

Twisted-unshielded pair wire is recommended. The 6820EVS also has 13 preset notification cadence patterns (including ANSI 3.41).

AGENCY LISTINGS AND APPROVALS

NFPA 13, NFPA 15, NFPA 16, NFPA 70,

NFPA 72: Central station; remote Signaling; Local Protective Signaling Systems; Auxiliary Protected Premises Unit; Water Deluge releasing service. Suitable for automatic, manual, waterflow, sprinkler supervisory (DACT non-coded) signaling services.

UL Listed: S2766 **CSFM** 7165-0559:0500 **FDNY** COA# 6249

FM approved

UL listed for Continuous or ANSI 520Hz speaker tones that meet NFPA 72 Low Frequency Signal Requirements for Sleeping Areas when used with the EVS-INT50W or EVS- 100W amplifiers and compatible speakers

ORDERING INFORMATION

6820EVS: Emergency Communication System with FACP. (Red cabinet).

COMPATIBLE ANNUNCIATORS

6860: 4x40 LCD remote fire annunciator (4 lines and up to 160 characters) per system; four programmable buttons

5860: 4x20 LCD remote fire annunciator. 5860 is gray; 5860R is red

6855: 4x20 LCD remote fire annunciator **5865-3 / 5865-4:** LED annunciators can display up to 30 LEDs (15 red and 15 yellow). The 5865-4 has key switches for silence and reset, and a system trouble LED.

5880: The 5880 LED / IO module has 40 programmable LED outputs and eight supervised dry contact inputs which are useful for custom applications. You can use up to eight 5880 modules on one control panel for maximum flexibility.

6820EVS COMPATIBLE DEVICES AND ACCESSORIES

See the data sheets listed below for a complete listing of the SK, SD or SWIFT devices.

53623: SK Devices Data Sheet 53624: SD Devices Data Sheet 350614, 350616 & 350618: SWIFT wireless devices

For a complete and current listing of compatible devices and accessories, visit

www.silentknight.com

Important: You cannot mix SK and SD devices in the same fire alarm system.

SK COMPATIBLE ADDRESSABLE DEVICES

SK-ACCLIMATE: Multi criteria photoelectric smoke detector with thermal 135°F fixed temperature

SK-BEAM: Reflected beam smoke detector without test feature

SK-BEAM-T: Reflected beam smoke detector with test feature

SK-CONTROL: Supervised control module **SK-CONTROL-6:** Six circuit supervised control module

SK-DUCT: Photoelectric duct smoke detector with extended air speed range

SK-FIRE-CO: Four criteria fire and carbon monoxide detector

SK-HEAT: Fixed thermal detector (135°F)

SK-HEAT-W: Fixed thermal detector (135°F), white

SK-HEAT-ROR: Fixed rate of rise detector (135°F)

SK-HEAT-ROR-W: Fixed rate of rise detector (135°F), white

SK-HEAT-HT: Fixed high temperature thermal detector (190°F)

SK-HEAT-HT-W: Fixed high temperature thermal detector (190°F), white

SK-ISO: Fault isolator module

SK-MINIMON: Mini monitor module

SK-MONITOR: Monitor module

SK-MONITOR-2: Dual input monitor module

SK-MON-10: 10 input monitor module **SK-PHOTO:** Photoelectric smoke detector

SK-PHOTO-W: Photoelectric smoke detector, white

SK-PHOTO-T: Photoelectric smoke detector with thermal (135°F fixed temperature)

SK-PHOTO-T-W: Photoelectric smoke detector with thermal (135°F fixed temperature), white

SK-PHOTOR: Photoelectric detector with remote test capability

SK-PHOTO-R-W: Photoelectric detector with remote test capability, white

SK-PULL-SA: Addressable single action pull station

SK-PULL-DA: Addressable dual action pull station

SK-RELAY: Addressable relay module SK-RELAY-6: Addressable Six relay control

SK-RELAYMON-2: Addressable Dual relay/monitor module

SK-ZONE: Addressable zone interface module

SK-ZONE-6: Six zone interface module B300-6(-IV): 6" base for SK-W Series

B210LP: 6" mounting base

B501(-BL,-IV,-WHITE): 4"flangeless base

B501: 4" Flangeless mounting base **B200S(-IV,-WH):** Intelligent sounder base

B200S: Intelligent sounder base B200S-LF(-IV,-WH): Low-Frequency

intelligent sounder base

B200S-LF: Low-frequency intelligent sounder base

B224RB(-IV,-WH): Relay base

B224RB: Relay base

B224BI(-IV,-WH): Isolator base

B224BI: Isolator base

SD COMPATIBLE ADDRESSABLE DEVICES

SD505-6AB: Addressable 6" base SD505-6IB: Addressable 6" short circuit isolator base

SD505-6RB: Addressable 6" relay base SD505-6SB: Addressable 6" sounder base SD500-AIM: Addressable input module (switch input)

SD500-ANM: Addressable notification module

SD500-ARM: Addressable relay module SD505-DTS-K: Remote test switch and LED indicator for the SD505-DUCTR

SD505-DUCT: Addressable Duct Smoke Detector.

SD505-DUCTR: Addressable Duct Detector housing with relay base.

SD505-HEAT: Absolute temperature heat detector. Trip point range from 135°F–150° F (0°C–37°C).

SD500-LIM: Addressable Line isolator

SD500-MIM: Addressable Mini input monitor module (switch input)

SD505-PHOTO: Photoelectric smoke detector

SD500-PS/-PSDA: Addressable Single or dual action pull station

SD500-SDM: Addressable smoke detector module

AUDIBLE/VISIBLE DEVICES These AV

devices are all 2-wire. Color: "R" indicates red; "W" denotes white. For a complete listing of Silent Knight AV devices go to www.silentknight.com.

CHSRL/CHSWL: Wall chime/strobe
CHSCRL/CHSCWL: Ceiling chime/strobe

CHRL/CHWL: Wall chime HRL/HWL: Wall horn

P2RL/P2WL: Wall horn/strobe
PC2RL/PC2WL: Ceiling horn/strobe

SRL/SWL: Wall strobe SCRL/SCWL: Ceiling strobe

SPSCRL/SPSCWL: Ceiling speaker/strobe SPSRL/SPSWL: Wall speaker/strobe

SPRL/SPWL: Wall speaker SPCRL/SPCWL: Ceiling speaker

SWIFT WIRELESS DEVICES

SWIFT is only compatible with System Sensor (SK) devices. It is not compatible with Hochiki (SD) devices.

WSK-WGI: Wireless Gateway

WSK-PHOTO: Wireless Photoelectric smoke detector

WSK-PHOTO-T: Wireless Multi-criteria photoelectric smoke detector with thermal detection (135°F fixed temperture) and B510W 4" base

WSK-HEAT: Wireless Heat, (135°F fixed temperture) and B510W 4" base

WSK-HEAT-ROR: Wireless heat, ROR (135°F fixed temperture) and B510W 4"

WSK-MONITOR: Wireless monitor module WSK-RELAY: Wireless relay module W-USB: SWIFT Tools USB transceiver used for communication with SWIFT devices

SBUS ACCESSORIES

6815: Each Single Line Circuit allows for an additional 159 SK modules and 159 SK sensors to be added to the system-up to 1,110 total points. Supports System Sensor SK devices only.

5815XL: Each Single Line Circuit provides an additional 127 SD devices to be added to the system -for a maximum of 635 points. Supports SD devices only.

5496: A 6 amp notification power expander with four power-limited notification appliance circuit outputs.

5883: Relay Interface. Provides 10 Form C relays.

5824: Serial/Parallel Printer Interface Module for printer connection.

5895XL: Power Supply with six Flexput[™] circuits, and two Form C relays. Max. 16 per system.

5815RMK: Remote mounting kit. Dimensions 10 3/8"W x 10-3/16"H x 3"D

EVS ACCESSORIES

EVS-50W: 50 Watt Amplifier*
EVS-125W: 125 Watt Amplifier*
EVS-100W: 50/100 Watt Amplifier*
EVS-100WBU: External Backup Amplifier
EVS-INT50W: 50 Watt Internal Amplifier
EVS-CE4: Circuit Audio Expander
EVS-SW24: 24 Switch Expander
EVS-VCM: Voice Control Module
EVS-LOC: Local Operator Console**
*Support for up to four amplifiers; 500W
maximum. Each amplifier has four built-in
speaker circuits expandable to eight.

COMMUNICATION OPTIONS

** Supports up to four EVS-LOCs

CELL-CAB-SK: Cellular communicator, metal enclosure with lock/key*

CELL-MOD: Cellular communicator, plastic enclosure*

*Sole path, powered by panel.

IPGSM-4G: Dual path fire alarm communicator, cellular and/or IP (primary or backup, selectable)

SK-IP-2: Remote reporting via the Internet. Requires a VisorAlarm® receiver at the central station

6820EVS Technical Specifications

MISC. ACCESSORIES

SK-NIC: Network Interface Card. Provides a common communications link for the 6820EVS. (Panels cannot be linked together for peer-to-peer networking).

SK-NIC-KIT: Installation Accessory Kit

SK-FML: Fiber-Optic Multi Mode, transmitter and receiver

SK-FSL: Fiber-Optic Single Mode RBB: Remote battery box accessory cabinet or batteries that are too large to fit in the FACP cabinet. Dimensions: 16" W x 10" H x 6" D (406mm W x 254mm H x 152mm D)

SK-SCK: Seismic Compliance Kit used to securely fasten batteries to the fire panel.

PHYSICAL

Overall Dimensions: $21.59\text{"W} \times 28.1\text{"H} \times 5.05\text{"D}$ Shipping Weight: 50 lbs.

Color: Red

ENVIRONMENTAL

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

Humidity: 0 to 93% relative humidity (noncondensing

ELECTRICAL

6820EVS Primary AC: 120AC @ 60Hz, 3.3A Total Accessory Load: 6A @ 27.4VDC power-limited

Standby Current: 190mA **Alarm Current:** 250mA

Battery Charging Capacity: 7 to 35AH

Battery Size: 18AH max. allowed in control panel cabinet. Larger capacity batteries can be housed in RBB accessory cabinet.

Six conductor wiring: 4 SBUS and 2 Voice Bus

FLEXPUT® CIRCUITS

Six programmable circuits which can be programmed individually as:

Notification Appliance Circuits: 3A @ 27.4VDC per circuit, power-limited (with a panel maximum current of 6A)

Auxiliary Power Circuits: 3A @ 27.4VDC per circuit, power-limited

Initiating Circuits (Circuits 5 and 6 Only): 100mA @ 27.4VDC per circuit, power limited

Supports Class B (Style 4) and Class A (Style 6) configuration for SLC, SBUS, and Flexput circuits

WIRING: See the product manual for wiring details

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For Technical Support, call 800-446-6444.



12 Clintonville Road Northford, CT 06472 800-328-0103 www.silentknight.com





IntelliKnight® Model EVS-INT50W

Intelligent 50 Watt Internal Amplifier

The EVS-INT50W is an intelligent 50 watt amplifier for use with the 5820XL-EVS. It is used to amplify the audio message for distribution throughout the facility. The EVS-INT50W is designed for mounting in the 5820XL-EVS cabinet assembly for convenient installation and access.

For more information about the EVS-INT50W, or to locate your nearest source, please call 800-328-0103.

Description

The EVS-INT50W is capable of producing 50 watts of audio power on one speaker circuit. It is designed to conveniently mount in the 5820XL-EVS cabinet, making it an ideal solution for small voice evacuation installations.

The EVS-INT50W is powered and supervised from the 5820XL-EVS, eliminating the need for an additional AC source and battery backup.

Features

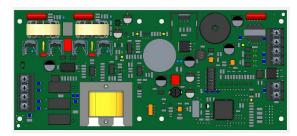
- · SBUS addressable
- · 50 watts of supervised audio power
- · One Class A or Class B speaker circuit
- · 25 volt or 70.7 volt operation
- UL 864 and UL 2572
- Easy to install assembly in the 5820XL-EVS cabinet
- · Six-wire connection to the EVS system:
 - Two-wires for the Voice BUS
 - Two-wires for the SBUS
 - Two-wires for the 24 VDC power source from an I/O circuit on the 5820XL-EVS programmed for constant auxiliary power
- UL listed for 520Hz signaling when used with compatible System Sensor speakers. See 5820XL-EVS installation manual LS10061-001SK-E for list of compatible speakers

Listings

Meets the requirements for NFPA 72 Local Protective Signaling Systems & Emergency Communication Systems.

UL 864 and UL 2572

Other Listings: CSFM (pending)



Model EVS-INT50W

Installation

The EVS-INT50W mounts in the 5820XL-EVS cabinet.

Compatibility

The EVS-INT50W is compatible with the 5820XL-EVS.

Model EVS-INT-50W Intelligent 50 Watt Internal Amplifier

Engineering Specifications

The contractor shall furnish and install where indicated on the plans, Silent Knight internal amplifier model EVS-INT50W. The amplifier shall be UL listed and compatible with the Silent Knight model 5820XL-EVS.

The amplifier shall provide up to 50 watts of supervised audio power on one speaker circuit. The amplifier shall be capable of 25 or 70.7 VRMS operation. The amplifier shall be capable of a 520Hz tone when used with compatible speakers.

The amplifier shall be mounted and housed in the Silent Knight 5820XL-EVS cabinet. The 5820XL-EVS shall provide the voice bus (VBUS), serial bus (SBUS), and 24 VDC power to the amplifier. The 5820XL-EVS shall control the activation of the amplifier speaker circuit via panel programming.

Specifications

Physical

Dimensions: 4.5" W x 10" H x 1.81" D

(11.43 W x 25.4 H x 4.6 D cm)

Shipping weight: 2 lbs.

Electrical

Power: 24 VDC

Standby Current: 52 mA

Alarm Current (EVS-INT50W only):

275 mA @ 25V

310 mA @ 70.7V Full Alarm load current:

2.84 A @ 25V

2.9 A @ 70.7V

Total Power:

50 Watts @ 25 Vrms or 70.7 Vrms

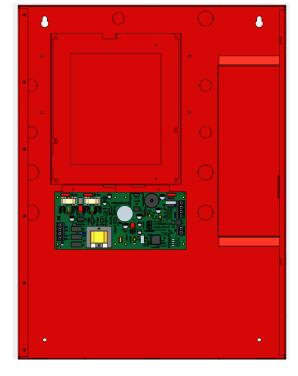
Environmental

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

Humidity: 10% - 93% non-condensing

Ordering Information

EVS-INT50W Intelligent 50 Watt Internal Amplifier



EVS-INT50W installed in 5820XL-EVS cabinet



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www.silentknight.com.





5860 Remote Annunciator

by Honeywell

Bring the power to control an IntelliKnight fire alarm control panel to every area within your facility.

Now you can operate and program your IntelliKnight system from up to eight locations throughout your facility. The 5860 remote annunciator provides the same advanced, easy-to-use interface found on the IntelliKnight panel's built-in annunciator. The 80-character display and ergonomically designed keypad allow for simple and error-free system operation. All operations—including reset, silence, detector status checking, fire drill, and programming—are identical.

Access to the system is through a firefighter's key or an access code. For security, a special installation code is needed for programming functions. The 5860 connects to the IntelliKnight panel via the RS-485 system bus. Wire runs can be up to 6000 feet from the panel.

For more information about the IntelliKnight system, or to locate your nearest source, please call 1-800-328-0103.

Description

Features include an 80-character backlit LCD providing easy-to-understand system messages. The annunciator is ergonomically designed with over-sized buttons for the most frequently used features, like Reset and Silence.

In addition to status messages displayed on the LCD, there are five LEDs for alarm, supervisory, trouble, silence, and AC power status.

The annunciator is available in gray to match virtually any decor and red for applications where the annunciator must stand out. The annunciator enclosure can be surface or flush mounted. A trim ring kit is available for surface mounting.

Features

- 80-character backlit LCD display (4 lines with 20 characters on each line)
- · Tactile and audible feedback
- Accepts user codes or fire fighter's key
- Larger keypad buttons for system reset and silence
- Install up to eight 5860s per FACP
- Available in red or light gray
- Support for simultaneous use of

multiple 5860s

- · RS-485 interface to panel
- Operation and appearance is identical to 5860 built-in annunciator
- On-board piezo sounder audibly indicates alarms, troubles, and supervisories
- Five status LEDs for alarm, supervisory, trouble, silence and AC power conditions
- Wiring lengths up to 6000 ft. from the FACP (depending on wire gauge and number of devices on SBUS)
- UL listed, complies with NFPA 72
- · CSFM approved

Electrical Specifications

Operating Voltage: 24 VDC Standby Current: 20 mA max

Alarm Current: 25 mA

Wiring Distance: 6,000 max. from FACP (depending on wire gauge and number of devices on the SBUS)

Max Per System: 8

Mechanical Specifications

Physical 9.1" W x 7.4" H x 1.5" D (23.1 W x 18.8 H x 3.8 D cm)

Shipping Weight: 2.8 lbs (1.3 kg)

Color

5860R: Red 5860: Gray



5860

Environmental

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

Humidity: 10% – 93% non-condensing

Compatibility

The 5860 is compatible is the following FACP's:

- IntelliKnight 5820XL FACP
- IntelliKnight 5808 FACP
- IntelliKnight 5700 FACP

Approvals/Listings

NFPA 72; UL Listed; CSFM 7170-0559: 135; MEA 429-92-E Vol. IX; FM Approved

5860 Remote Annunciator

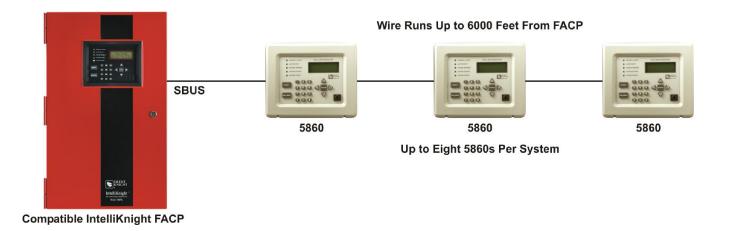
Engineering Specifications

The main control must have a built-in annunciator and must support up to eight remote annunciators. Remote annunciators shall have the same control and display layout so as to match the appearance of the built-in annunciator. Remote annunciators shall be available in two colors, red or light gray.

Remote annunciators shall have identical functionality and operation as the built-in annunciator. All annunciators must have an 80-character LCD display and must feature five LEDs for: General Alarm, Supervisory, System Trouble, System Silence, and System Power.

All controls and programming keys are silicone mechanical type with tactile and audible feedback. Keys have a travel of .040 inches. No membrane style buttons will be permissible.

The annunciator must be able to silence and reset alarms through the use of a code entered on the annunciator keypad or by using a firefighter's key. The annunciator must have two levels of user codes that will limit the operating system programming to authorized individuals. The control panel must allow all annunciators to accommodate multiple user input simultaneously.



Ordering Information

5860R Remote Annunicator four line LCD annunciator with 20 characters per line. Red.

Remote Annunciator.Four line LCD annunciator with 20 characters per line. Gray.

Accessories

5860TR Red Trim Ring for surface mounting.
5860TG Gray Trim Ring for surface mounting.



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MADE IN AMERICA

FORM# 350224 Rev E © 2010 Honeywell International Inc.

SK-PS6 / SK-PS10

6 Amp and 10 Amp, 24 Volt Power Supplies

The PS Series are independently configurable power supplies, allowing you to pair any input with any output, and feature LED diagnostics for troubleshooting.

The PS Series is a remote power supply line from Silent Knight and is a direct replacement for the 5495/5499. The SK-PS6 is a 6 amp and the SK-PS10 is a 10 amp, remote power supply with battery charger that may be connected to any 12 or 24 volt fire alarm control panel (FACP) or used as a standalone power supply. The PS Series provides 24 VDC power for NACs (notification appliance circuits) configured as either Class B or Class A (requires the ZNAC-PS option card) with multiple sync protocol options. The PS Series also provides auxiliary power, constant or resettable, suited for detectors, annunciators, door holders, and other fire alarm system peripherals. The PS Series cabinet can hold two 7 AH or 18 AH batteries and can charge up to 33 AH batteries in a separate cabinet.



FEATURES AND BENEFITS

- Up to five (6 amp model) or seven (10 amp model) independently-configurable, powerlimited output circuits for:
 - -Class B and/or Class A NACs
 - –Class B and/or Class A resettable or non-resettable 24V auxiliary power
 - -door holder power
- Converts from Class B to Class A wiring without losing any outputs using the ZNAC-PS converter card (sold separately)
- Optimal for powering four-wire smoke detectors, annunciators, and other system peripherals requiring regulated power
- Optional addressable control, monitor, and relay modules and power-supervision relay (EOLR-1)
- Configurable for ANSI® Temporal 3 or Temporal 4 coded output
- UL-Listed NAC synchronization using System Sensor®, Wheelock®, Gentex®, or AMSECO® appliances
- Synchronization can be triggered from FACP NAC/remote sync outputs, cascaded

- power supply, or a control module, single or multi, which may be housed within the power supply cabinet
- Ability to cascade up to four power supplies
- Two (6 amp model) or three (10 amp model) fully-isolated input/control circuits which can be programmed to any output
- Two Form C normally-closed trouble relays for AC Trouble and General Trouble
- 6 or 10 amp full load output, respectively, with 3 A maximum/circuit
- Individual NAC power and trouble LEDs for diagnostic efficiency
- Trouble history mode for diagnostic support
- Wide range end-of-line supervision value (normal: 2-27K ohms)
- Selectable earth fault detection (enable or disable)
- AC trouble report delay timer
- Completely configurable via onboard DIP switches, no extra software required
- Self-contained in compact, locking cabinet constructed of heavy gauge steel with a

- corrosion-resistant powder coat chip and scratch-resistant finish
- Cabinet designed with ten double knockouts and a removable door for ease of installation and wiring
- Includes integral battery charger capable of charging up to 33 AH batteries
- Cabinet can house two 7 AH or 18 AH batteries
- Battery charger may be disabled via DIP switch for applications requiring larger batteries and external battery charger
- Removable terminal blocks accommodate up to 12 AWG (3.1mm²) wire
- Works with any UL 864 FACP which utilizes an industry-standard reverse-polarity notification circuit



ORDERING INFORMATION

 $\mbox{SK-PS6:}\ 6.0\ \mbox{A},\ 120\ \mbox{VAC}$ remote charger power supply in a lockable, metal enclosure, red

SK-PS10: 10.0 A, 120 VAC remote charger power supply in a lockable, metal enclosure, red

ZNAC-PS: Optional Class A converter card, sold separately

SK-CONTROL: Addressable Control Module for one Class B or Class A zone of supervised, polarized Notification Appliances. Notification Appliance Circuit option requires external 24 VDC to power notification appliances.

SK-RELAY: Addressable relay module containing two isolated sets of Form-C contacts, which operate as a DPDT switch

SK-MONITOR: Addressable Monitor Module for one zone of normally open dry-contact initiating devices. Includes plastic cover plate and end-of-line resistor. Module may be configured for either a Class B or Class A

SK-MONITOR-2: Dual Monitor Module. Same as SK-MONITOR except it provides two inputs for Class B wiring only

SK-RELAYMON-2: Provides two monitored inputs and two Form-C relays. Functions in Class B wiring only

SK-CONTROL-6: Six-circuit supervised control module

SK-RELAY-6: Six Form-C relay control module

EOLR-1: 12/24 VDC end-of-line relay for monitoring four-wire smoke detector power

BAT-1270-BP: Battery, 12 volt, 7.0 AH, 5-pack (two required)

BAT-12180-BP: Battery, 12 volt, 18AH, 2-pack

BAT-12330: Battery, 12 volt, 33AH

SEISKIT-MULTI-1: Seismic kit for the PS Series. Includes bracket and hardware for two 7AH or two 18AH batteries.

SK-PS6 / SK-PS10 TECHNICAL SPECIFICATIONS

PRIMARY (AC) POWER

SK-PS6: 120 VAC, 50/60 Hz, 5.0A maximum

SK-PS10: 120VAC, 50/60 Hz, 6.2 A maximum

Wire Size: #12-14 AWG with 600 V

insulation

COMMAND INPUT CIRCUIT

Trigger Input Voltage: 9 to 32 VDC **Trigger Current:** 2.0 mA (16 - 32 V); Per Input: 1.0 mA (9 - 16 V)

RELAY CIRCUITS

Trouble Contact Rating: 4 A at 24 VDC

OUTPUT CIRCUITS

- · 24 VDC filtered
- SK-PS6: TB8-TB9 1A Regulated, 3A special applications; TB10-TB12 – 0.3A Regulated, 3A special applications
- SK-PS10: TB8-TB11 1.5A Regulated, 3A special applications; TB12-TB14 – 0.3A Regulated, 3A special applications
- 6.0 A (SK-PS6) or 10.0 (SK-PS10) maximum total continuous current for all outputs

SECONDARY POWER (BATTERY) CHARGING CIRCUIT

- Supports lead-acid batteries only
- Float-charge voltage: 27.6 VDC
- Maximum current charge: 1.5 A
- Maximum battery capacity: 18 AH (inside cabinet)
- Maximum battery charging capacity: 33 AH (external cabinet)

PHYSICAL

Dimensions: 20.0"H x 14.5"W x 3.5"D (cm: 50.8H x 36.83W x 8.9D)

Weight: with two 7Ah batteries is 24 pounds (10.9 kg), with two 18 AH batteries is 39 pounds (17.7 kg)

STANDARDS AND CODES

The SK-PS complies with the following standards:

NFPA 72: National Fire Alarm Code

UL 864: Standard for Control Units for Fire Alarm Systems (NAC expander mode)

UL 1481: Power Supplies for Fire Alarm Systems

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 factory for latest listing status.

UL Listed: S3511

CSFM: 7315-0559:0522

FDNY Approved FM Approved

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Country of origin: USA



12 Clintonville Road Northford, CT 06472-1610 203.484.7161 www.silentknight.com



NP SERIES - **NP18-12**

Reliability is your Security

Utilizing the latest advance design Oxygen Recombination Technology, Yuasa have applied their 80 years experience in the lead acid battery field to produce the optimum design of Sealed Lead Acid batteries.

FEATURES

- Superb recovery from deep discharge.
- Electrolyte suspension system.
- Gas Recombination.
- Multipurpose: Float or Cyclic use.
- Usable in any orientation.
- Superior energy density.
- Lead calcium grids for extended life.
- Manufactured World wide.
- Application specific designs.

Technical Features

Sealed Construction

Yuasa's unique construction and sealing technique ensures no electrolyte leakage from case or terminals.

Electrolyte Suspension System

All NP batteries utilize Yuasa's unique electrolyte suspension system incorporating a microfine glass mat to retain the maximum amount of electrolyte in the cells. The electrolyte is retained in the separator material and there is no free electrolyte to escape from the cells. No gels or other contaminants are added.

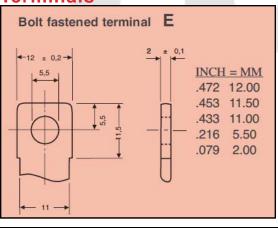
Control of Gas Generation

The design of Yuasa's NP batteries incorporates the very latest oxygen recombination technology to effectively control the generation of gas during normal use.

Low Maintenance Operation

Due to the perfectly sealed construction and the recombination of gasses within the cell, the battery is almost maintenance free.

Terminals



Layout





Terminals

NP batteries are manufactured using a range of terminals which vary in size and type. Please refer to details as shown.

Operation in any Orientation

The combination of sealed construction and Yuasa's unique electrolyte suspension system allows operation in any orientation, with no loss of performance or fear of electrolyte leakage.

Valve Regulated Design

The batteries are equipped with a simple, safe, low pressure venting system which releases excess gas and automatically reseals should there be a build up of gas within the battery due to severe overcharge. Note. On no account should the battery be charged in a sealed container.

General Specifications

| Nominal Capacity (Ah) | NP18-12 |
|------------------------------|---------|
| 20hr to 1.75vpc 30°C | 17.2 |
| 10hr to 1.75vpc 20°C | 16 |
| 5hr to 1.70vpc 20°C | 14.5 |
| 1hr to 1.60vpc 20°C | 10.3 |
| Voltage | 12 |
| Energy Density (Wh.L.20hr) | 94 |
| Specific Energy (Wh.kg.20hr) | 38 |
| Int. Resistance (m.Ohms) | 11 |
| Maximum discharge (A) | 112 |
| Short Circuit current (A) | 500 |
| Dimensions (mm) | |
| Length | 180 |
| Width | 76 |
| Height overall | 167 |
| Weight (Kg) | 6.2 |
| Terminal | Е |
| Layout | 2 |
| Terminal Torque Nm | - |

NP SERIES - NP18-12

Lead Calcium Grids

The heavy duty lead calcium alloy grids provide an extra margin of performance and life in both cyclic and float applications and give unparalleled recovery from deep discharge.

Long Cycle Service Life

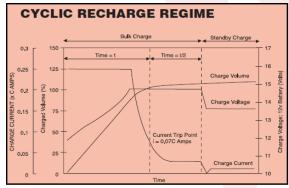
Depending upon the average depth of discharge, over a thousand discharge/charge cycles can be expected.

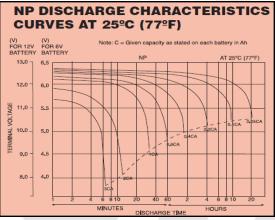
Float Service Life

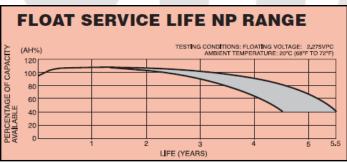
The expected service life is five years in float standby applications.

Separators

The use of the special separator material provides a very efficient insulation between plates preventing inter-plate short circuits and prohibiting the shedding of active materials.







Long shelf Life

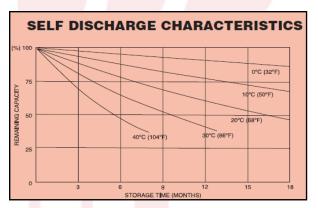
The extremely low self discharge rate allows the battery to be stored for extended periods up to one year at normal ambient temperatures with no permanent loss of capacity.

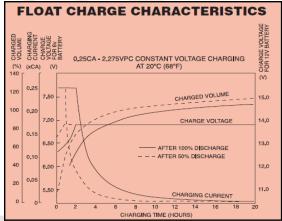
Operating Temperature Range

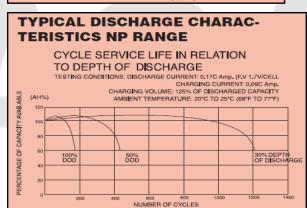
The batteries can be used over a broad temperature range permitting considerable flexibility in system design and location.

Charge – 15°C to 50°C Discharge – 20°C to 60°C

Storage – 20°C to 50°C (fully charged battery)









Yuasa Battery Inc.

2901 Montrose Ave Laureldale, PA 19605 www.yuasabatteries.com

Registered number 1548820

Cat. No. NP7-12 January 08

Distributed by







Standard Features:

- 2 Key ring hooks to hold system keys
- Business card holder for key contacts
- Overall Dimensions are 12" x 13" tall and 2 ¼ deep
- 16 gauge steel box and cover for security
- Durable powercoat baked on finish other colors available
- Standard ¾"cat 30 key lock other lock assemblies available
- Solid stainless steel piano hinge
- Permanently screened white ink 1" high "Fire Alarm Documents"
- Legend sheet for passwords and system information

FIRE DOCUMENT BOX

The FDB is the perfect fit to meet the demanding code requirements today. SAE's number one goal is to manufacture code compliant solutions and this product allows you to do just that. NFPA 72 2010 section 6.2.2.1 states, "A record of installed software and firmware version numbers shall be maintained at the location of the fire alarm control unit."

This durable 16 gauge steel enclosure with a solid piano hinge and key lock will keep all of your code required documents in one safe place. Along with your fire alarm software you can store your test & inspection documents, service records, manuals & AS built drawings for the system.

The FDB is designed to hold critical manuals and documents with a durable steel retainer. It has designated hooks to organize key rings and hold important business cards for easy access and reference. Inside the cover it has a organized note table that allows for documentation for passwords and other critical system information.



ISO 9001 REGISTERED COMPANY



ACEROX

Space Age Electronics, Inc. www.1sae.com **800.486.1723** Toll Free 508.485.0966 Local 508.485.4740 Fax



Specifications:

The fire alarm documents box (FDB) shall be constructed of 18 gauge cold rolled steel. It shall have a red powder coat epoxy finish. The cover shall be permanently screened with 1" high lettering "FIRE ALARM DOCUMENTS" with white indelible ink. The access door shall be locked with a 3/4" barrel lock and the hinge shall be a solid width 12" stainless steel piano hinge. The enclosure will supply 4 mounting holes. Inside the enclosure will accommodate standard 8 1/2 x 11 manuals and loose document records that will be protected within the enclosure. A legend sheet will be permanently attached to the door for system required documentation, key contacts and system information. The enclosure shall also provide 2 key ring holders with a location to mount standard business type cards for key contact personnel.



ACERO) Minimum Required Documentation (SIG-FUN) inspection and testing in acco ord of completion in accordance with 7.5.6 and 7.8.2 sed Or Alt. Location Equipment Information

> Legend sheet for storing system information including contacts, sign-off, maintenance & test information, and alternate locations of additional records.

Ordering Information: Part # Description

SSU00672 Fire Document Box RED

SSU00673 Custom screening with your Logo

Check out our Infinity line eFAD single gang 2 Gig digital storage solutions (IAMEFAD)

Space Age Electronics, Inc. www.1sae.com 800.486.1723 Toll Free 508.485.0966 Local 508.485.4740 Fax

No Excuses. Just Solutions!

This document is subject to change without notice, see doc # ED0479 for legal disclaimer

ED0447 LT10505



SK-Pull-SA and SK-Pull-DA

Intelligent Pull Stations

The SK-Pull-SA and SK-Pull-DA are a single action or dual action addressable fire alarm pull station for use with Silent Knight's IntelliKnight fire control panel. Extremely easy to operate, the SK-Pull-DA and SK-Pull-SA provide a fast and practical means of manually initiating a fire alarm signal. The IntelliKnight panel recognizes each manual pull station by its specific address saving precious seconds in determining the location of an alarm.

For more information about the IntelliKnight system, or to locate you nearest source, please call 1-800-328-0103.

Description

The SK-Pull-SA is a single action pull station requiring only one motion to activate the station. The SK-Pull-DA is a dual action pull station requiring two motions to active the station. Both pull stations are designed to work with Silent Knight Intelliknight series fire alarm control panels (FACPs).

Features

- Installer can open station without causing an alarm condition
- Dual-color LED is visible through handle of station blinks green to indicate normal operation and remains steady red in an alarm condition
- Key operated test and reset lock using lock plate actuator
- · Key matches compatible FACP locks
- Meets the Americans with Disabilities Act Accessibility Guidelines (ADAAG) controls and operating mechanisms guidelines (Section 4.1.3[13])
- Meets ADA requirement for 5 lbs maximum pull force to active
- Shell, door, and handle molded from durable LEXAN[®]
- · Reliable analog communications for trouble-free operation
- · Braille text on station handle
- Handle latches in down position and the word Activated appears, clearly indicating the station has been pulled
- · Rotary address switches for fast installation
- UL Listed, including UL 38, Standard of Manually Actuated Signaling System



SK-Pull-SA



SK-Pull-DA

Compatibility

The SK-Pull-SA and SK-Pull-DA are compatible with the following IntelliKnight FACP's:

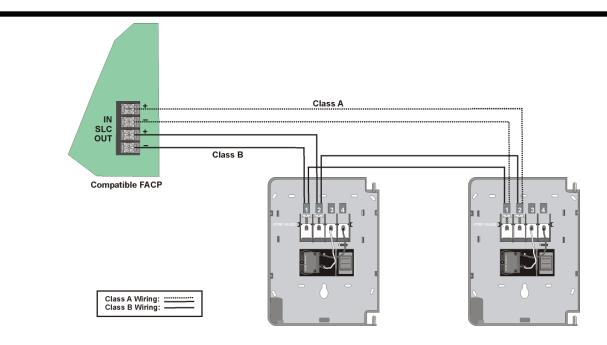
5600 5700 5808 5820XL 5820XL-EVS

Model SK-Pull-DA and SK-Pull-SA Intelligent Pull Stations

Engineering Specifications

The contractor shall furnish and install where indicated on the plans, Addressable Pull Stations, Silent Knight model SK-Pull-SA single action pull station or SK-Pull-DA, dual action pull station.

SK-Pull-DA or SK-Pull-SA meet the ADAAG controls and operating mechanisms guidelines, and the ADA requirements for a 5 lb. maximum pull force to activate the pull station.



Wiring SK-Pull-SA & SK-Pull-DA Pull Stations

Specifications

Physical

Height: 5.5" (14 cm)
Width: 4" (10.2 cm)
Depth: 5.4 oz. (3.7 cm)

Housing Material: LEXAN polycarbonate resin

Bi-Colored LED:

Blinking Green: Normal Steady Red: Alarm

Switch: Single pole, single throw (SPST) normally open (N/O) switch which closes upon activation of the pull station

Electrical

Operating Voltage: 15-32 VDC

Average Operating Current (LED flashing): 300 µA

Wire Gauge: Up to 12 AWG (3.1 mm²)

Environmental

Operating Temperature 32° – 120°F (0°C – 49°C)

Humidity: 10% - 93% non-condensing

Accessories

BG-TR Optional trim ring.
SB-I/O Surface backbox



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Phone: (800) 328-0103, Fax: (203) 484-7118. For Technical Support,

Please call 800-446-6444. www.silentknight.com

MADE IN AMERICA

FORM# 350135 Rev C © 2013 Honeywell International Inc.



SS-Series Intelligent Detectors

The System Sensor SS-Series intelligent photoelectric and thermal detectors with integral communication provide point location for alarm communication and selective maintenance.



Features

- UL 268 7th Edition, UL 521, and/or UL 268A certified
- New modern profile
- · Analog communications
- · Low standby current
- · Rotary address switches
- Dual LEDs for 360° visibility
- Expanded color options

SS-Series smoke detectors are intelligent (addressable) detectors with point ID capability that enable each detector address to be set with rotary address switches providing exact device locations. SS-Series detectors support current SK, LiteSpeed™ and SS Protocol systems. Refer to the Addressable Detector and Sounder Base Compatibility Chart or the Intelligent Control Panel SLC Wiring Manual for specific panel compatibility. Detector sensitivity is continually monitored and reported to the fire alarm control panel. The modern design and expanded color options support contemporary aesthetic demands. In addition, each detector is constructed for exceptional installation and maintenance efficiency.

The System Sensor **SS-PHOTO** photoelectric detector's redesigned optical sensing chamber is engineered to sense smoke produced by a wide range of combustion sources in accordance with more stringent code standards. The sensitivity of SS-Series detectors can be programmed using the control panel software to suit the environment. The **SS-PHOTO-R** photoelectric detector is also remote test capable for use with a DNR (DNRW) duct smoke detector. The **SS-PHOTO-T** multi-sensor detector offers either photoelectric detection or thermal detection through dual electronic thermistors at 135°F (57°C) fixed temperature thermal sensing.

SS-Series thermal detectors provide cost-effective, intelligent property protection with a UL 521 listing: the **SS-HEAT** offers 135°F (57°C) fixed thermal detection; the **SS-HEAT-ROR** offers 135°F (57°C) fixed and rate-of-rise thermal detection; the **SS-HEAT-HT** provides fixed high-temperature detection at 190°F.

Agency Listings







SS-PHOTO Serie 7272-1653:0529 SS-HEAT Series 7270-1653:0528

SS-Series Intelligent Detector Specifications

| Physical/Operating Specification | ns en |
|----------------------------------|---|
| Height | 2.0 inches (51 mm) |
| Diameter | 6.2 inches (156 mm) installed in B300-6 base; |
| | 4.1 inches (104 mm) installed in B501-WHITE/-IV/-BL base |
| Shipping Weight | 3.4 oz (95 g) |
| Operating Temperature Range | Photo: 32°F to 122°F (0°C to 50°C) |
| | Photo with Remote Test: 32°F to 122°F (0°C to 50°C); -4°F to 158°F (-20°C to 70°C) in duct applications |
| | Photo with Thermal: 32°F to 115°F (0°C to 47°C) |
| | Heat - Fixed-temperature: -4°F to 115°F (-20°C to 47°C) |
| | Heat - Rate of Rise (ROR): -4°F to 115°F (-20°C to 47°C) |
| | Heat - High Temperature: -4°F to 150°F (-20°C to 66°C) |
| UL-Listed Velocity Range | Photo, Photo with Thermal, Photo with Remote Test: 0 to 4,000 fpm (0 to 1,219 m/minute) |
| | (suitable for installation in ducts) |
| Operating Humidity Range | 10% to 93% non-condensing |
| Thermal Ratings | Fixed Temperature Setpoint: 135°F (57°C) |
| _ | Rate-of-Rise Detection: 15°F/min. (8.3°C/min.) |
| | High Temperature Heat: 190°F (88°C) |
| Sensitivity Range | SS-PHOTO, SS-PHOTO-R, SS-PHOTO-T: Open area 2.86–5.0%/FT. Special Application 0.5–2.86%/FT. |
| Electrical Specifications | |
| Voltage Range | 15 to 32 VDC peak |
| Operating Current @ 24 VDC | 200 uA (one communication every 5 seconds with green LED blink on communication) |
| Maximum Current | 4.5 mA @ 24 VDC (one communication every 5 seconds with amber LED solid on) |
| Maximum Alarm Current | 2 mA @ 24 VDC (one communication every 5 seconds with red LED solid on) |

Ordering Information

| Ordering in | Officialion | | |
|---------------|--------------|----------|---|
| Part No. | | | Description |
| White | Ivory | Black | |
| SS-PHOTO | _ | _ | Photoelectric smoke detector |
| SS-PHOTO-R | _ | _ | Photoelectric smoke detector, remote test capable, for use with DNR(W) duct smoke detectors |
| SS-PHOTO-T | _ | _ | Photoelectric smoke detector with thermal |
| SS-HEAT | _ | _ | Fixed temperature thermal detector |
| SS-HEAT-ROR | _ | _ | Fixed temperature and Rate-of-rise thermal detector |
| SS-HEAT-HT | _ | _ | High temperature thermal detector |
| Bases | | | |
| B501-WHITE | B501-IV | B501-BL | 4" Mounting base |
| B501-WHITE-BP | _ | _ | 4" Mounting base, bulk pack (10) |
| B300-6 | B300-6-IV | _ | 6" Flanged mounting base |
| B300-6-BP | _ | _ | 6" Flanged mounting base, bulk pack (10) |
| B200S-WH | B200S-IV | _ | Intelligent addressable sounder base |
| B200S-LF-WH | B200S-LF-IV | _ | Intelligent addressable sounder base, low-frequency |
| B200SR | B200SR-IV | _ | Intelligent sounder base |
| B200SR-LF | B200SR-LF-IV | _ | Intelligent sounder base, low frequency |
| B224RB | B224RB-IV | _ | Relay base |
| B224BI | B224BI-IV | _ | Isolator base |
| Accessories | | | |
| _ | SMB600 | _ | Surface Mounting Kit (flanged) |
| TR300 | TR300-IV | _ | Trim ring |
| CK300 | CK300-IV | CK300-BL | Color Kit (includes cover and trim ring) |
| _ | RA100Z | _ | RA100Z Remote LED annunciator |
| M02-04-00 | | | Detector test magnet |
| M02-09-00 | | | Telescoping test magnet |

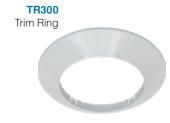
Accessories

RA100Z Remote LED Annunciator



CK300-BL Color Kit





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SK-Monitor-2

Intelligent Dual Monitor Module

The SK-Monitor-2 module is capable of monitoring two separate Class B circuits simultaneously, making it ideal for waterflow tamper switch and flow switch monitoring.

For more information about the IntelliKnight system, or to locate you nearest source, please call 1-800-328-0103.

Description

The SK-Monitor-2 is an addressable monitor module with two initiating circuits for use with Silent Knight IntelliKnight series fire alarm control panels (FACPs). The SK-Monitor-2 acts as an interface to contact devices, such as waterflow switches and pull stations.

The SK-Monitor-2 supports Class B supervised wiring to the load device. Conventional 4-wire smoke detectors can be monitored for alarm and trouble conditions.

Features

- Monitor two circuits, with unique addresses, simultaneously
- Support for Class B wiring
- Fully supervised
- Panel controlled status LED that flashes green in normal state and is solid red in alarm
- Attractive ivory cover plate
- Rotary address switches for fast installation
- · SEMS screws for easy wiring
- UL Listed



SK-Monitor-2

Installation

SK-Monitor-2 mounts directly into a 4" square electrical box. The box must have a minimum depth of 2-1/8". A surface mount electrical box (System Sensor® part number SMB500) is available from Silent Knight.

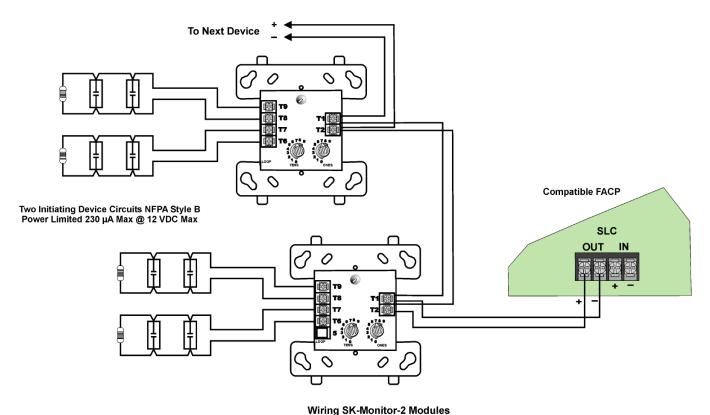
Compatibility

The SK-Monitor-2 is compatible with the following IntelliKnight FACP's:

5700 5808 5820XL 5820XL-EVS

Model SK-Monitor-2

Intelligent Dual Monitor Module



Specifications

Physical

Height: 4.5" H x 4" W x 1.25" D Shipping Weight: 6.3 oz (196 g)

Electrical

Operating Voltage: 15 - 32 VDC Current Draw (LED on): 6.4 mA max Operating Current (LED flashing): 750 µA End-of-Line Resistance: 47K Ω

Max IDC wiring resistance: $1,500\Omega$ SLC Line Loop Resistance: 40Ω max.

Environmental

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

Humidity: 10% - 93% non-condensing

Accessories

SMB500 4" Square Surface Mount Electrical Box



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Phone: (800) 328-0103, Fax: (203)484-7118. For Tehnical Support, Please

call 800-446-6444. www.silentknight.com

MADE IN AMERICA

FORM# 350124 Rev C © 2013 Honeywell International Inc.



SK-Relay

Intelligent Relay Module

The SK-Relay Module is intended for use in intelligent, two-wire systems where the individual address of each module is selected using the built in rotary switches.

For more information about the IntelliKnight system, or to locate you nearest source, please call 800-328-0103.

Description

The SK-Relay is an addressable relay module for use with Silent Knight IntelliKnight series fire alarm control panels (FACPs).

The SK-Relay allows a Silent Knight FACP to switch discrete contacts by code command. The relay contains two isolated sets of Form C contacts, which operate as a DPDT switch. No supervision is provided for the notification appliance circuit.

The SK-Relay contacts can be used for virtually any normally open or normally closed application. Each SK-Relay is programmed with a unique signaling line circuit (SLC) loop address. When an event occurs that controls the SK-Relay, the relay is triggered by the FACP.

Features

- · Two sets of Form C contacts
- · Rotary address switches for fast installation
- Contacts are rated for a variety of amps (see Specifications)
- Panel controlled status LED that flashes green in normal state and is solid red in alarm
- Relay programming is completely flexible—can be mapped to zone conditions
- · Polling LED visible through the cover plate
- · Attractive ivory cover plate
- SEMS screws for easy wiring
- UL Listed



SK-Relay

Installation

The SK-Relay mounts directly into a 4" square electrical box. The box must have a minimum depth of 2-1/8". A surface mount electrical box (System Sensor® PN SMB500) is available from Silent Knight

Compatibility

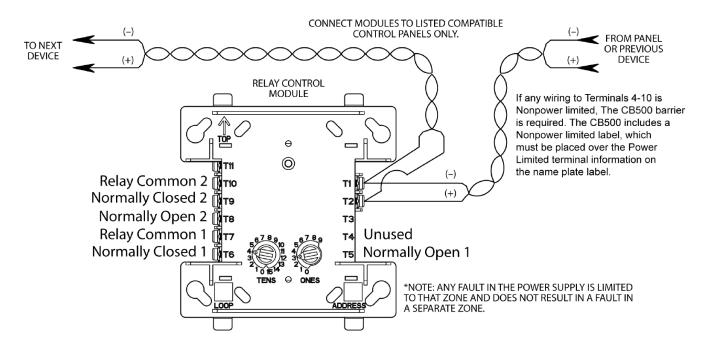
The SK-Relay is compatible with the following IntelliKnight FACP's:

5820XL 5820XL-EVS 5808 5700 5600 (Rev 2.0 or higher)

> P/N 350127 Rev F © 2016 Honeywell International Inc.

Model SK-Relay

Intelligent Relay Module



Wiring the SK-Relay Module

Specifications

Physical

4.675" H x 4.275" W x 1.4" D Shipping Weight: 6.3 oz (196 g)

Environmental

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

Humidity: 10% - 93% non-condensing

Electrical

Operating Voltage: 15 – 32 VDC End-of-Line Resistance: Not used

SLC Standby & Alarm Current: .255mA max @ 24 VDC (one communication every 5 sec with LED

enabled)

Ordering Information

SK-Relay Relay Module

Accessories

SMB500 4" Square Surface Mount Electrical Box

CB500 Module Barrier

Relay Contact Ratings

3.0A @ 30 VDC resistive

0.9A @ 110 VDC resistive

0.9A @ 125 VAC resistive

0.5A @ 125 VAC inductive (PF = .35)

0.7A @ 75 VAC inductive (PF = .35)



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SK-DUCT Intelligent Air Duct Smoke Detector

Detect smoke in air handling systems and air handling equipment with Silent Knight's addressable duct smoke detector

The SK-Duct Intelligent air duct smoke detector is used with SK-PhotoR (included) for detecting smoke and products of combustion present in air moving through an HVAC air handling system. When smoke is detected in a duct, the unit communicates the condition to the IntelliKnight control panel. The panel, in turn, depending on programming and wiring, turns off fans, blowers, and other devices. The duct housing allows for mounting of SK-Relay addressable relay module. Now there's even more power and flexibility available to the IntelliKnight family of products!

Description

The Model SK-Duct Air Duct Smoke Detector utilizes photoelectric technology for the detection of smoke. It provides early detection of smoke and products of combustion present in air moving through HVAC ducts in Commercial and Industrial applications.

The SK-Duct is in a heavy duty gray steel back box with a clear cover. It features a pivoting housing that fits both square and rectangular footprints capable of mounting to a round or rectangular duct. It installs quickly and easily.

The unit senses smoke in the most challenging conditions, operating in airflow speeds of 100 to 4000 feet per minute, temperatures of -4°F to 158°F, and a humidity range of 0 to 95 percent (non-condensing).

Features

- Versatile mounting options: square or rectangular configuration
- · New Cover tamper signal
- LED alarm indication and communication on sensor head
- · Detects and limits the spread of smoke
- · Rugged steel back box with clear plastic cover
- · Easy to clean
- · Large terminal connection screws
- Transparent cover for convenient visual inspection
- Patented sampling tube installs from front or back of the detector with no tools required
- Available space within housing to accommodate mounting of relay module
- UL listed



SK-DUCT

Specifications

Physical

(Rectangular): 14.38 in (37 cm) Length; 5in (12.7 cm) Width; 2.5 in (6.6 cm) Depth

(Square): 7.75 in (19.7cm) Length;

9 in (22.9cm) Width; 2.5 in (6.35cm) Depth

Weight: 1.6lb (0.73kg)

Environmental

Operating Temperature: -4°F – 158°F (-20°C – 70°C)

Humidity: 0% – 95% (non-condensing)

riamaky: 070 0070 (nom ooma

Air Velocity

100 to 4000 ft/min (0.5 – 20.3 m/sec.)

Electrical (using SK-Photo or SK-PhotoR)

Operating Voltage: 15–32 VDC

Standby Current: 300 µA @ 24 VDC max. Alarm Current: 6.5 mA @ 24 VDC max

(with LED on)

Model SK-DUCT Air Duct Smoke Detector

Engineering Specifications

The air duct smoke detector shall be a SK-Duct photoelectric duct smoke detector. The detector housing shall be UL listed per UL 268A specifically for use in air handling systems. The flexible housing of the duct smoke detector fits both square and rectangular footprints. The detector shall operate at air velocities of 100 ft/min to 4000 ft/min (0.5 m/sec to 20.32 m/sec).

The unit shall be capable of providing a trouble signal in the event that the sensor cover is removed or improperly installed. It shall be capable of local testing via magnetic switch or remote testing using the RTS151KEY remote test station. Terminal connections shall be of the strip and clamp method suitable for 12-18AWG wiring.

The unit housing shall be capable of mounting a relay module.

Ordering Information

SK-Duct Intelligent non-relay duct smoke detector

P48-21-00 SK-Photo Addressable Photo Detector

SK-PhotoR Addressable Photo Detector with remote test

capability (included with SK-Duct)

Addressable Relay Module, must be added if SK-Relay relay function is required, (fits in housing)

Accessoriest

DST1 Metal Sampling Tube Duct Width up to 1' Metal Sampling Tube Duct Widths 1' - 2' **DST1.5** Metal Sampling Tube Duct Widths 2' - 4' DST3 Metal Sampling Tube Duct Widths 4' - 8' DST5 Metal Sampling Tube Duct Widths 8' - 12' DST10

DH400OE-1 Weatherproof Enclosure

Metal Exhaust Tube Duct width 1' FTX

RA100Z Remote LED Annunciator

DCOIL Duct accessory coil, required if using with

SK-Photo and not SK-PhotoR (included) with

SK-Duct

RTS151 Magnetic Remote Test station Key-Activated Remote Test station RTS151KEY

M02-04-00 **Test Magnet**

Replacement End Cap for Metal

Sampling Tube

APA151 Remote annunciator with piezo alarm

Important Notes:

- The use of either RTS151 or RTS151KEY requires the installation of an accessory coil, DCOIL, sold separately. Please refer to the SK-Duct installation instructions for more information
- The RTS151/RTS151KEY test coil circuit requires an external 24VDC power supply which must be UL listed.

| Accessory Current Loads at 24 VDC | | |
|-----------------------------------|---------|-----------|
| Device | Standby | Alarm |
| RA100Z | 0mA | 12mA Max. |
| RTS151 | 0mA | 12mA Max. |
| RTS151KEY | 12mA | 12mA Max. |





Duct Smoke Detector Accessories

Expand the versatility of the InnovairFlex[™] line of duct smoke detectors with System Sensor notification and test accessories.



Available Accessories

APA151 Piezo Annunciator

MHR Mini-Horn, Red

MHW Mini-Horn, White

RA100Z/RA100ZA Remote Annunciator

RTS151 Remote Test Station

RTS151KEY Remote Test Station with Key
RTS2 Multi-Signaling Accessory

AOS Add-On Strobe

RTS2-AOS Multi-Signaling Accessory

Duct smoke detector accessories add functionality to the duct smoke detection system by allowing quick, convenient inspections at eye level and effective audible and visible notification options. All System Sensor duct smoke detectors and accessories are UL listed.

The **APA151** piezo annunciator, which replaces the APA451 with a new, improved look, provides an audible alarm signal, a red LED to indicate alarm status, and a green LED to indicate power status. It is intended for use with System Sensor 4-wire conventional duct smoke detector applications without a system control panel, to comply with NFPA 90A.

The **MHR and MHW** SpectrAlert® Advance mini-horns feature temporal or continuous tones at high and low volume settings. Their small footprint allows mounting to single-gang back boxes for applications where a small device is desired.

The **RA100Z and RA100ZA** remote annunciators are designed for both conventional and intelligent applications. Their red LED provides visual indication of an alarm condition.

The **RTS151 and RTS151KEY** remote test stations are automatic fire detector accessories designed to test duct smoke detectors from a convenient location. For 4-wire detectors, the RTS151KEY test station features a multi-colored LED that alternates between steady green and red. For 2-wire detectors, the LED illuminates red for alarm.

The RTS2 and RTS2-AOS multi-signaling accessories are designed to work with InnovairFlex 4-wire conventional duct smoke detectors. These accessories include a key switch that can be used to select one of two connected sensors to be tested, reset, or both by a push button switch. They also enable sensitivity measurements using the SENS-RDR sensitivity reader (sold separately). The AOS (Add-On Strobe) is an optional accessory included with the RTS2-AOS model.

Agency Listings









Specifications, Duct Smoke Detector Accessories

| -p | |
|------------------------------|--|
| APA151 Piezo Annunciat | or |
| Voltage | Regulated 24 VDC |
| Operating Voltage | 16 to 33 VDC |
| Maximum Alarm Current | 30 mA |
| Temperature Range | 0°C to 49°C (32°F to 120°F) |
| Relative Humidity | 10 to 93% non-condensing |
| Wire Gauge | 12 to 18 AWG |
| Dimensions | 4.6"H × 2.9"W × .45"D |
| MHR/MHW SpectrAlert® | Advance Mini-Horns |
| Voltage | Regulated 12 DC or FWR (Full Wave Rectified) or Regulated 24 VDC or FWR |
| Sounder Current Draw | 22 mA RMS max. at 8 to 17.5 Volts DC 29 mA RMS max. at 16 to 33 Volts DC |
| Temperature Range | 0°C to 49°C (32°F to 120°F) |
| Humidity Range | 10 to 93% non-condensing |
| Nominal Sounder Frequency | 3 kHz |
| Wire Gauge | 12 to 18 AWG |
| Dimensions | 4.6"H × 2.9"W × 0.45"D |
| RA100Z/RA100ZA Remot | te Annunciator |
| Voltage Range | Conventional System: 3.1 to 32 VDC Intelligent System: 18 to 32 VDC |
| Maximum Alarm Current | 10 mA |
| Dimensions | 4.6 "H × 2.8"W × 1.3"D |

| ries | |
|------------------------|---|
| RTS151 Remote Test Sta | ation |
| Power Requirements | Alarm LED: 2.8 to 32 VDC, 12 mA max. Total Current: 105 mA max. |
| Test Switch | 10 VA @ 32 VDC |
| Reset Switch | 10 VA @ 32 VDC |
| Alarm Response Time | 40 seconds max. |
| Temperature Range | -10°C to 60°C (14°F to 140°F) |
| Relative Humidity | 95% non-condensing |
| Wire Gauge | 14 to 18 AWG |
| Dimensions | 4.8"H x 2.90"W x 1.4"D |
| RTS151KEY Remote Tes | st Station with Key |
| Power Requirements | Power LED (Green): 14 to 35 VDC, 12 mA max. Alarm LED (Red): 2.8 to 32 VDC, 12 mA max. Total Current: 105 mA max. |
| Alarm Response Time | 40 seconds max. |
| Temperature Range | -10°C to 60°C (14°F to 140°F) |
| Relative Humidity | 95% non-condensing |
| Wire Gauge | 14 to 18 AWG |

| Dimensions | 4.6"H × 2.75"W × 1.8"D |
|-----------------------|---------------------------------------|
| RTS2 and RTS2-AOS Mul | ti-signaling Accessory |
| Voltage | 20 to 29 VDC |
| Power Requirements | Standby: 3.0 mA max. |
| | Trouble: 16.0 mA max. |
| | Alarm without strobe: 30 mA max. |
| | Alarm with strobe: 55 mA max. |
| Sounder | 85 dBA at ten feet |
| Temperature Range | -10°C to 60°C (14°F to 140°F) |
| Relative Humidity | 95% non-condensing |
| Wire Gauge | 14 to 22 AWG |
| Dimensions | 4.8″W x 5.3″H x 1.6″D |
| | · · · · · · · · · · · · · · · · · · · |

For the very latest product specifications and listing information, please visit the System Sensor Web site at www.systemsensor.com.



RTS151 UL S4011



RTS151KEY UL S2522



APA151 UL S4011



RTS2-AOS UL S2522



RA100Z UL S2522



MHW UL S4011



MHR UL S4011



AOS





Indoor SelectableOutput Speaker Strobes and Dual Voltage Evacuation Speakers for Ceiling Applications

System Sensor L-Series selectable-output speaker strobes and dual-voltage evacuation speakers can reduce ground faults and enable faster installation with lower current draw and modern aesthetics.

Features

- Plug-in design and protective cover reduce ground faults
- Universal mounting plate with an onboard shorting spring tests wiring continuity before installation
- · No extension ring required
- Field selectable candela settings on ceiling units: 15, 30, 75, 95, 115, 150, and 177
- Automatic selection of 12- or 24-volt operation at 15 and 30 candela
- Rotary switch simplifies field selection of speaker voltage (25 and 70.7 Vrms) and power settings (1/4, 1/2, 1 and 2 watts)
- Speakers offer high fidelity and high volume sound output
- 520 Hz capable with compatible FACP
- Compatible with System Sensor synchronization protocol
- Electrical compatibility with existing SpectrAlert and SpectrAlert Advance products
- Tamper-resistant construction
- Updated modern aesthetics

Agency Listings







FM approved except for ALERT models

7320-1653:050



These devices also enable faster installations by providing instant feedback to ensure that wiring is properly connected, rotary switches to select voltage and power settings, and 7 field-selectable candela settings for both wall and ceiling speaker strobes.

The low total harmonic distortion of the SP speaker offers high fidelity sound output while still offering high volume sound output for use in high ambient noise applications.

L-Series makes installation easy

- Attach a universal mounting plate to a $4 \times 4 \times 21/8$ inch back box . Flush-mount applications do not require an extension ring.
- Connect the notification appliance circuit or speaker wiring to the terminals on the mounting plate.
- Attach the speaker or speaker strobe to the mounting plate by
 inserting the product tabs into the mounting plate grooves. Hinge
 the device into position to lock the product pins into the mounting
 plate terminals. The device will temporarily hold in place with a
 catch until it is secured with a captured mounting screw.

L-Series Speaker and Speaker Strobe Specifications

Architectural/Engineering Specifications

General

L-Series speaker and speaker strobes shall mount to a 4 × 4 × 21/8-inch back box. A universal mounting plate shall be used for mounting ceiling and wall products. The notification appliance circuit and amplifier wiring shall terminate at the universal mounting plate. Also, L-Series speaker strobes, when used with the Sync◆Circuit™ Module accessory, shall be powered from a non-coded notification appliance circuit output and shall operate on a nominal 12 or 24 volts. When used with the Sync◆Circuit Module, 12-volt rated notification appliance circuit outputs shall operate between 8.5 and 17.5 volts; 24-volt rated notification appliance circuit outputs shall operate between 16.5 and 33 volts. Indoor L-Series products shall operate between 32°F and 120°F from a regulated DC, or full-wave rectified, unfiltered power supply. Speaker strobes shall have field-selectable candela settings including 15, 30, 75, 95, 115, 150, 177.

Speaker

The speaker shall be a System Sensor L-Series model _____ dual-voltage transformer speaker capable of operating at 25.0 or 70.7 nominal Vrms. It should be listed to UL 1480 and shall be approved for fire protective service. The speaker shall have a frequency range of 400 to 4,000 Hz and shall have an operating temperature between 32°F and 120°F. The speaker shall have power taps and voltage that are selected by rotary switches.

Speaker Strobe combination

The speaker strobe shall be a System Sensor L-Series model ______ listed to UL1480 and UL 1971 and be approved for fire protective signaling systems. The speaker shall be capable of operating at 25.0 or 70.7 nominal Vrms selected via rotary switch, and shall have a frequency range of 400 to 4,000 Hz. The speaker shall have power taps that are selected by rotary switch. The strobe shall comply with the NFPA 72 requirements for visible signaling appliances, flashing at 1 Hz over the strobe's entire operating voltage range. The strobe light shall consist of a xenon flash tube and associated lens/reflector system.

Synchronization Module

The module shall be a System Sensor Sync • Circuit model MDL3 listed to UL 464 and shall be approved for fire protective service. The module shall synchronize SpectrAlert strobes at 1 Hz. The module shall mount to a 411/16 × 411/16 × 21/8-inch back box. The module shall also control two Style Y (class B) circuits or one Style Z (class A) circuit. The module shall synchronize multiple zones. Daisy chaining two or more synchronization modules together will synchronize all the zones they control. The module shall not operate on a coded power supply.

| Physical Specifications | | |
|---|---|---------------|
| Operating Temperature | 32°F to 120°F (0°C to 49°C) | |
| Humidity Range | 10 to 93% non-condensing | |
| Dimensions, Ceiling-Mount | Diameter | Depth |
| SPC Speaker | 6.8 in, 173 mm | 1.0 in, 25 mm |
| With Surface Mount Back Box | 6.9 in, 176 mm | 3.5 in, 89 mm |
| SPSC Speaker Strobe | 6.8 in, 173 mm | 2.8 in, 73 mm |
| With Surface Mount Back Box | 6.9 in, 176 mm 5.37 in, 136 mm | |
| Electrical/Operating Specifications | | |
| Nominal Voltage (speakers) | 25 Volts or 70.7 Volts (nominal) | |
| Maximum Supervisory Voltage (speakers) | 50 VDC | |
| Strobe Flash Rate | 1 flash per second | |
| Nominal Voltage (strobes) | Regulated 12 VDC or regulated 24 VDC/FWR ^{1,2} | |
| Operating Voltage Range (includes fire alarm panels with built in sync) | 8 to 17.5 V (12 V nominal) or 16 to 33 V (24 V nominal) | |
| Operating Voltage with MDL3 Sync Module | 8.5 to 17.5 V (12 V nominal) or 16.5 to 33 V (24 V nominal) | |
| Frequency Range | 400 to 4,000 Hz ³ | |
| Power | 1/4, 1/2, 1, 2 watts | |

- 1. Full Wave Rectified (FWR) voltage is a non-regulated, time-varying power source that is used on some power supply and panel outputs.
- 2. Strobe products will operate at 12 V nominal only for 15 and 30 cd.
- 3. 520Hz capable with compatible FACP.

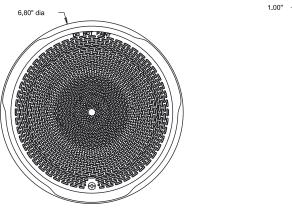
UL Current Draw Data

| UL Max. Strobe Current Draw (mA RMS) | | | |
|--------------------------------------|-----------------|----------------|-----|
| | 8 to 17.5 Volts | 16 to 33 Volts | |
| Candela | DC | DC | FWR |
| 15 | 87 | 41 | 60 |
| 30 | 153 | 63 | 86 |
| 75 | NA | 111 | 142 |
| 95 | NA | 134 | 164 |
| 115 | NA | 158 | 191 |
| 150 | NA | 189 | 228 |
| 177 | NA | 226 | 264 |

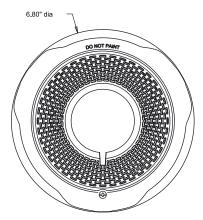
| Ceiling-Mount Speaker Sound Output | | |
|------------------------------------|-----------------------------|--------------------------|
| Setting | UL Reverberant (dBA @10 ft) | UL Anechoic (dBA @10 ft) |
| 1/4 W | 79 | 79 |
| 1/2 W | 82 | 82 |
| 1 W | 85 | 85 |
| 2 W | 88 | 88 |

| Ceiling-Mount Speaker Strobe Sound Output | | |
|---|-----------------------------|--------------------------|
| Setting | UL Reverberant (dBA @10 ft) | UL Anechoic (dBA @10 ft) |
| 1/4 W | 77 | 77 |
| 1/2 W | 80 | 80 |
| 1 W | 83 | 83 |
| 2 W | 86 | 86 |

L-Series Dimensions



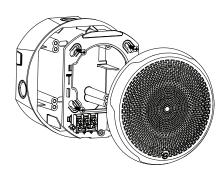
Ceiling Speaker



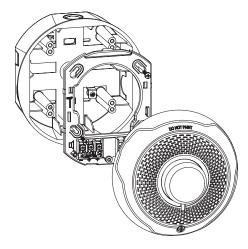
1.76"

Ceiling Speaker Strobe

Surface Mounting







Ceiling Speaker Strobe with Surface Mount Back Box

L-Series Ordering Information

| Red | Description |
|--------|--|
| SPCRL | Speaker only |
| SPSCRL | Speaker Strobe |
| _ | Plain, Speaker Strobe |
| _ | Fuego, Speaker Strobe |
| _ | Alert, Speaker Strobe, Clear Lens |
| | |
| Red | Description |
| SBBCRL | Universal Ceiling Surface Mount Back Box |
| TRC-2 | Universal Ceiling Trim Ring |
| | SPCRL SPSCRL Red SBBCRL |





Indoor Selectable-Output Speaker Strobes and Dual Voltage Evacuation Speakers for Wall Applications

System Sensor L-Series selectable output speaker strobes and dual-voltage evacuation speakers can reduce ground faults and enable faster installation with lower current draw and modern aesthetics.

Features

- Plug-in design and protective cover reduce ground faults
- Universal mounting plate with an onboard shorting spring tests wiring continuity before installation
- No extension ring required
- Field selectable candela settings on wall units: 15, 30, 75, 95, 110, 135, 185
- Automatic selection of 12- or 24-volt operation at 15 and 30 candela
- Rotary switch simplifies field selection of speaker voltage (25 and 70.7 Vrms) and power settings (1/4, 1/2, 1 and 2 watts)
- Speakers offer high fidelity and high volume sound output
- 520 Hz +/- 10% square wave tone capable with compatible FACP
- Compatible with System Sensor synchronization protocol
- Electrical compatibility with existing SpectrAlert and SpectrAlert Advance products
- Tamper-resistant construction
- Updated modern aesthetics

Agency Listings







FM approved except for ALERT models 3057493

7320-1653:050



The System Sensor L-Series of speakers and speaker strobes reduce costly ground faults using a plug-in design and universal mounting plate that allow the installer to pre-wire mounting plates, dress the wires, and confirm wiring continuity before plugging in the speakers. In addition, a protective plastic cover prevents nicked wires by covering exposed speaker components.

These devices also enable faster installations by providing instant feedback to ensure that wiring is properly connected, rotary switches to select voltage and power settings, and 7 field-selectable candela settings for wall speaker strobes.

The low total harmonic distortion of the speaker offers high fidelity sound output while still offering high volume sound output for use in high ambient noise applications.

System Sensor L-Series makes installation easy

- Attach a universal mounting plate to a 4 x 4 x 2¹/₈ inch back box.
 Flush-mount applications do not require an extension ring.
- Connect the notification appliance circuit or speaker wiring to the terminals on the mounting plate.
- Attach the speaker or speaker strobe to the mounting plate by
 inserting the product tabs into the mounting plate grooves. Hinge
 the device into position to lock the product pins into the mounting
 plate terminals. The device will temporarily hold in place with a
 catch until it is secured with a captured mounting screw.

L-Series Speaker and Speaker Strobe Specifications

Architectural/Engineering Specifications

General

L-Series speaker and speaker strobes shall mount to a 4 × 4 × 2½-inch back box. A universal mounting plate shall be used for mounting ceiling and wall products. The notification appliance circuit and amplifier wiring shall terminate at the universal mounting plate. Also, L-Series speaker strobes, when used with the Sync•Circuit™ Module accessory, shall be powered from a non-coded notification appliance circuit output and shall operate on a nominal 12 or 24 volts. When used with the Sync•Circuit Module, 12-volt rated notification appliance circuit outputs shall operate between 8.5 and 17.5 volts; 24-volt rated notification appliance circuit outputs shall operate between 16.5 and 33 volts. Indoor L-Series products shall operate between 32°F and 120°F from a regulated DC, or full-wave rectified, unfiltered power supply. Wall-mount speaker strobes shall have field-selectable candela settings including 15, 30, 75, 95, 110, 135, 185.

Speaker

The speaker shall be aSp System Sensor L-Series model ______ dual-voltage transformer speaker capable of operating at 25.0 or 70.7 nominal Vrms. It should be listed to UL 1480 and shall be approved for fire protective service. The speaker shall have a frequency range of 400 to 4,000 Hz and shall have an operating temperature between 32°F and 120°F. The speaker shall have power taps and voltage that are selected by rotary switches.

Speaker Strobe combination

The speaker strobe shall be a System Sensor L-Series model ______ listed to UL1480 and UL 1971 and be approved for fire protective signaling systems. The speaker shall be capable of operating at 25.0 or 70.7 nominal Vrms selected via rotary switch, and shall have a frequency range of 400 to 4,000 Hz. The speaker shall have power taps that are selected by rotary switch. The strobe shall comply with the NFPA 72 requirements for visible signaling appliances, flashing at 1 Hz over the strobe's entire operating voltage range. The strobe light shall consist of a xenon flash tube and associated lens/reflector system.

Synchronization Module

The module shall be a System Sensor Sync Circuit model MDL3 listed to UL 464 and shall be approved for fire protective service. The module shall synchronize strobes at 1 Hz. The module shall mount to a 411/16 × 411/16 × 21/8-inch back box. The module shall also control two Style Y (class B) circuits or one Style Z (class A) circuit. The module shall synchronize multiple zones. Daisy chaining two or more synchronization modules together will synchronize all the zones they control. The module shall not operate on a coded power supply.

| Physical Specifications | | | | | | | |
|------------------------------|--------------------|-----------------------------|----------------|--|--|--|--|
| Operating Temperature | 32°F to 120°F (0°C | 32°F to 120°F (0°C to 49°C) | | | | | |
| Humidity Range | 10 to 93% non-cond | densing | | | | | |
| Dimensions, Wall-Mount | Length | Width | Depth | | | | |
| SPL Speaker | 6.5 in, 165 mm | 5 in, 127 mm | 0.97 in,23 mm | | | | |
| With Surface Mount Back Box | 6.6 in, 168 mm | 5.1 in, 130 mm | 3.2 in, 82 mm | | | | |
| SPSL Speaker/Strobe | 6.5 in, 165 mm | 5.0 in, 127 mm | 2.3 in, 58 mm | | | | |
| (including lens and speaker) | | | | | | | |
| With Surface Mount Back Box | 6.6 in, 168 mm | 5.1 in, 130 mm | 4.5 in, 116 mm | | | | |

^{*}When using 12AWG, 14 AWG, or adding extra wires in the box, a deeper box or extension ring is recommended.

| Electrical/Operating Specifications | |
|---|---|
| Nominal Voltage (speakers) | 25 Volts or 70.7 Volts (nominal) |
| Maximum Supervisory Voltage (speakers) | 50 VDC |
| Strobe Flash Rate | 1 flash per second |
| Nominal Voltage (strobes) | Regulated 12 VDC or regulated 24 DC/FWR ^{1,2} |
| Operating Voltage Range (includes fire alarm panels with built in sync) | 8 to 17.5 V (12 V nominal) or 16 to 33 V (24 V nominal) |
| Operating Voltage with MDL3 Sync Module | 8.5 to 17.5 V (12 V nominal) or 16.5 to 33 V (24 V nominal) |
| Frequency Range | 400 to 4000 Hz ³ |
| Power | 1⁄4, 1⁄2, 1, 2 watts |

- 1. Full Wave Rectified (FWR) voltage is a non-regulated, time-varying power source that is used on some power supply and panel outputs.
- 2. Strobe products will operate at 12 V nominal only for 15 and 30 cd
- 3. 520 Hz +/- 10% square wave tone capable with compatible FACP.

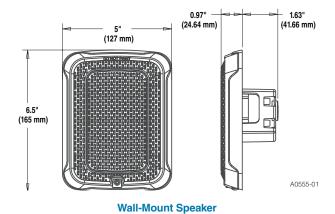
UL Current Draw Data

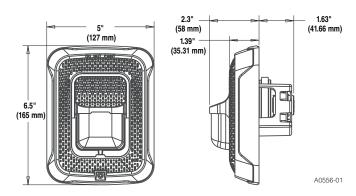
| UL Max Strobe Curr | rent Draw (mA RMS) | | |
|--------------------|--------------------|----------------|-----|
| | 8 to 17.5 Volts | 16 to 33 Volts | |
| Candela | DC | DC | FWR |
| 15 | 88 | 43 | 60 |
| 30 | 143 | 63 | 83 |
| 75 | N/A | 107 | 136 |
| 95 | N/A | 121 | 155 |
| 110 | N/A | 148 | 179 |
| 135 | N/A | 172 | 209 |
| 185 | N/A | 222 | 257 |

| Sound Output Speaker Strobe | | | | | | |
|-----------------------------|-------|------------|-----|-----|--|--|
| | 1/4 W | ½ W | 1 W | 2 W | | |
| UL Reverberant (dBA @10 ft) | 77 | 80 | 83 | 86 | | |
| UL Anechoic (dBA @10 ft) | 77 | 80 | 83 | 86 | | |

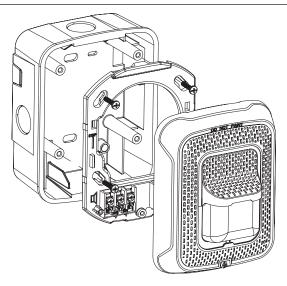
| Sound Output Speaker | | | | | | |
|-----------------------------|-------|-----|-----|-----|--|--|
| | 1/4 W | ½ W | 1 W | 2 W | | |
| UL Reverberant (dBA @10 ft) | 79 | 82 | 85 | 88 | | |
| UL Anechoic (dBA @10 ft) | 79 | 82 | 85 | 88 | | |

L-Series Dimensions





Wall-Mount Speaker Strobe



A0523-01

Wall-Mount Speaker Strobe with SBBSPRL/ SBBSPWL Surface Mount Back Box

L-Series Ordering Information

| Wall Mount | | |
|-----------------|----------|----------------------------|
| White | Red | Description |
| SPWL | SPRL | Speaker only |
| SPSWL | SPSRL | Speaker Strobe |
| SPSWL-P | SPSRL-P | Plain Speaker Strobe |
| SPSWL-ALERT | _ | Speaker Strobe, Amber Lens |
| SPSWL-CLR-ALERT | _ | Speaker Strobe Clear Lens |
| _ | SPSRL-SP | Speaker Strobe, Fuego |

| Accessories | | | |
|-------------|---------|---|--|
| White | Red | Description | |
| RFPW | RFP | 7 in × 9.5 in Retrofit Plate | |
| SBBSPWL | SBBSPRL | Surface Mount Back Box for Speakers and Speaker Strobes | |
| TR-2W | TR-2 | Wall Mount Trim Ring | |

Notes

All -P models have a plain housing (no "FIRE" marking on the cover)





L-Series and L-Series with LED **Indoor Selectable** Horns, Strobes and **Horn Strobes**

System Sensor L-Series and L-Series with LED audible visible notification products are rich with features quaranteed to cut installation times and maximize profits with lower current draw and modern aesthetics.

Features

- · LED technology provides lower current draw
- Digital Voltage Meter (DVM) diagnostic test points for Horn Strobes and Strobes
- Common aesthetics across the L-Series platform
- · Standard and compact sizes
- Tamper-resistant construction
- Field-selectable candela settings on wall units: 15, 30, 75, 95, 110, 135, and 185
- Field-selectable candela settings on ceiling units: 15, 30, 75, 95, 115, 150, and 177
- Rotary switches for candela, tone and volume selections
- Mounting plate provides plug-in design for easier installation and shorting springs to check wiring continuity
- Electrically compatible with legacy SpectrAlert, SpectrAlert Advance and L-series devices
- Synchronization through use of UL approved power supplies that support System Sensor Sync protocol or System Sensor MDL3 Sync Module
- Horns, Strobes and Horn Strobes listed for wall or ceiling use

Agency Listings







SIGNALING





3057072











The System Sensor L-Series and L-Series with LED

platform offers the most versatile and easy-to-use line of horns, strobes, and horn strobes in the industry with lower current draw and modern aesthetics. LED lighting technology offers significantly lower current draw compared to older Xenon bulbs across a full candela range. This improves design flexibility for notification appliance circuits (NACs) while also reducing power supply requirements allowing for simpler and lower cost installations.

Flexible design options meet virtually any application requirement: wall or ceiling mount, standard or compact sizes, red or white color choices, bezel kits for alternate markings and languages, and LED color lenses for distinctive visual signaling. In addition, installers can easily adapt devices using field selectable candela, tone and volume settings using rotary switches.

The L-Series and L-Series with LED line is developed to simplify installation. All devices feature plug-in designs with minimal intrusion into the back box, making installations fast and foolproof while virtually eliminating costly and time-consuming ground faults. The universal mounting plate includes an onboard shorting spring, so installers can test wiring continuity before the device is installed.

In addition, the System Sensor L-Series with LED notification appliances offer a new diagnostic test point feature that allows you to measure device voltage with a digital voltage meter (DVM) without removing the appliance from the wall or ceiling. The DVM test points are discreetly located on the face of the notification appliance which enable faster troubleshooting and end of line (EOL) voltage checks while greatly reducing the risk of misplacing or damaging appliances during troubleshooting.

L-Series and L-Series with LED Specifications

| Physical/Electrical Specifications | |
|---|---|
| Standard Operating Temperature | 32°F to 120°F (0°C to 49°C) |
| Humidity Range | 10 to 93% non-condensing |
| Strobe Flash Rate | 1 flash per second |
| Nominal Voltage, LED Strobes and Horn Strobes | Regulated 24 VDC |
| Nominal Voltage, Horns | Regulated 12 VDC or regulated 24 DC/FWR |
| Operating Voltage Range, LED Strobes and Horn Strobes | 16 to 33 V (24 V nominal) |
| Operating Voltage Range, Horns | 8 to 17.5 V (12 V nominal) or 16 to 33 V (24 V nominal) |
| Input Terminal Wire Gauge | 12 to 18 AWG |

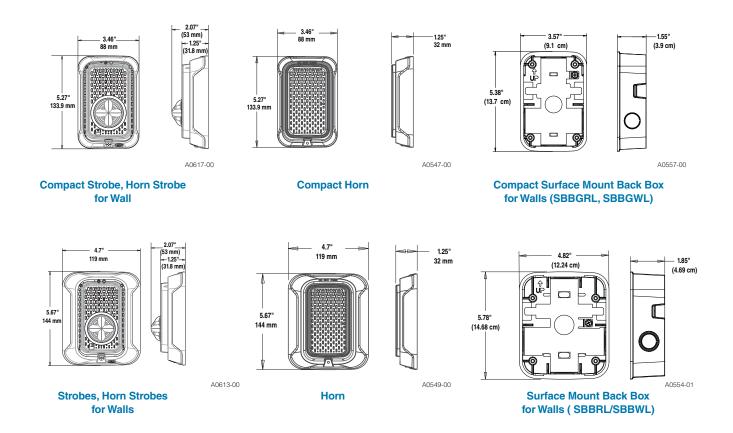
UL/ULC Current Draw Data, Horn Tones, and Sound Output Data

| UL/ULC Maxmimum Strobe Current Draw (mA) | | | | | | | |
|--|---------|-------------|---------|--|--|--|--|
| | Candela | 16-33 Volts | | | | | |
| | Rating | Wall | Ceiling | | | | |
| Candela | 15 | 18 | 18 | | | | |
| Range | 30 | 22 22 | | | | | |
| | 75 | 70 | 70 | | | | |
| | 95 | 75 | 75 | | | | |
| | 110 | 85 | _ | | | | |
| | 115 | _ | 90 | | | | |
| | 135 | 105 | _ | | | | |
| | 150 | _ | 110 | | | | |
| | 177 | _ | 115 | | | | |
| | 185 | 120 | _ | | | | |

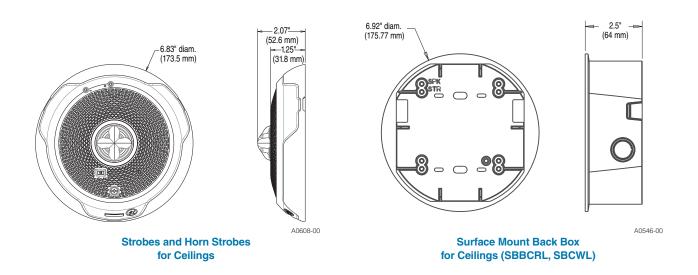
| UL/ULC Maxmimum Horn Current Draw (mA RMS) | | | | | | |
|--|------|--------------|------|---------|--|--|
| | | 8-17.5 Volts | 16–3 | 3 Volts | | |
| Sound Pattern | dB | DC | DC | FWR | | |
| Temporal | High | 39 | 44 | 54 | | |
| Temporal | Low | 28 | 32 | 54 | | |
| Non-Temporal | High | 43 | 47 | 54 | | |
| Non-Temporal | Low | 29 | 32 | 54 | | |
| 3.1 KHz Temporal | High | 39 | 41 | 54 | | |
| 3.1 KHz Temporal | Low | 29 | 32 | 54 | | |
| 3.1 KHz Non-Temporal | High | 42 | 43 | 54 | | |
| 3.1 KHz Non-Temporal | Low | 28 | 29 | 54 | | |
| Coded | High | 43 | 47 | 54 | | |
| 3.1 KHz Coded | High | 42 | 43 | 54 | | |

| | UL/ULC Maximum Horn Strobe Current Draw (mA) and Sound Output (dBA) | | | | | | | | | | | | |
|-------------|---|-------------------|--|------|------|------|---------------|------------------|--------------------------|------------------|------------------|---------------|--------|
| | | | Current Draw (mA RMS), Horn Strobe, Candela Range (15-185 cd) | | | | | | Sound Output (dBA) | | | | |
| | | | | | | | 1 | 6-33 Volts | | | | | 16-33V |
| Switch Pos. | Sound Pattern | Volume Setting | 15cd | 30cd | 75cd | 95cd | 110cd WALL | 115cd CEILING | 135cd WALL | 150cd CEILING | 177cd CEILING | 185cd WALL | DC |
| 1 | Temporal 3 | High | 35 | 38 | 87 | 92 | 94 | 120 | 189 | 189 | 190 | 190 | 87 |
| 2 | Temporal 3 | Low | 35 | 38 | 87 | 92 | 94 | 120 | 135 | 135 | 145 | 145 | 79 |
| 3 | Non-Temporal | High | 50 | 52 | 87 | 92 | 94 | 120 | 127 | 127 | 135 | 135 | 87 |
| 4 | Non-Temporal | Low | 35 | 38 | 87 | 92 | 94 | 120 | 125 | 125 | 130 | 130 | 79 |
| 5 | 3.1KHz Temporal 3 | High | 35 | 38 | 87 | 89 | 91 | 115 | 155 | 155 | 165 | 165 | 86 |
| 6 | 3.1KHz Temporal 3 | Low | 35 | 38 | 87 | 89 | 91 | 115 | 128 | 130 | 135 | 135 | 80 |
| 7 | 3.1KHz Non-Temporal | High | 40 | 42 | 87 | 89 | 91 | 115 | 125 | 125 | 135 | 135 | 86 |
| 8 | 3.1KHz Non-Temporal | Low | 35 | 38 | 87 | 89 | 91 | 115 | 120 | 120 | 130 | 130 | 80 |

L-Series with LED Dimensions: Wall-Mounted Equipment



L-Series with LED Dimensions: Ceiling-Mounted Equipment



L-Series with LED: Ordering Information

| Model | Description |
|----------------------|--|
| | · |
| L-Series with LE | |
| P2RLED | 2-Wire, Horn Strobe, Wall, Red |
| P2RLED-B | 2-Wire, Horn Strobe, Wall, Red, Bilingual |
| P2WLED | 2-Wire, Horn Strobe, Wall, White |
| P2WLED-B | 2-Wire, Horn Strobe, Wall, White, Bilingual |
| P2GRLED | 2-Wire, Compact Horn Strobe, Wall, Red |
| P2GRLED-B | 2-Wire, Compact Horn Strobe, Wall, Red, Bilingual |
| P2GWLED | 2-Wire, Compact Horn Strobe, Wall, White |
| P2GWLED-B | 2-Wire, Compact Horn Strobe, Wall, White, Bilingual |
| P2RLED-P | 2-Wire, Horn Strobe, Wall, Red, Plain |
| P2WLED-P | 2-Wire, Horn Strobe, Wall, White, Plain |
| P2RLED-SP | 2-Wire, Horn Strobe, Wall, Red, FUEGO |
| P2WLED-SP | 2-Wire, Horn Strobe, Wall, White, FUEGO |
| PC2RLED | 2-Wire, Horn Strobe, Ceiling, Red |
| PC2RLED-B | 2-Wire, Horn Strobe, Ceiling, Red, Bilingual |
| PC2WLED | 2-Wire, Horn Strobe, Ceiling, White |
| PC2WLED-B | 2-Wire, Horn Strobe, Ceiling, White, Bilingual |
| L-Series with LE | |
| SRLED | Strobe, Wall, Red |
| SRLED-B | Strobe, Wall, Red, Bilingual |
| SWLED | Strobe, Wall, White |
| SWLED-B | Strobe, Wall, White, Bilingual |
| SGRLED | Strobe, Compact, Wall, Red |
| SGRLED-B | Strobe, Compact, Wall, Red, Bilingual |
| SGWLED | Strobe, Compact, Wall, White |
| SGWLED-B | Strobe, Compact, Wall, White, Bilingual |
| SRLED-P | Strobe, Wall, Red, Plain |
| SWLED-P | Strobe, Wall, White, Plain |
| SRLED-SP | Strobe, Wall, Red, FUEGO |
| SWLED-CLR- ALERT | Strobe, Wall, White, ALERT |
| SWLED-ALERT | Strobe, Wall, White, ALERT, Amber Lens |
| SCRLED | Strobe, Ceiling, Red |
| SCRLED-B | Strobe, Ceiling, Red, Bilingual |
| SCRLED-P | Strobe, Ceiling, White, Plain |
| SCWLED | Strobe, Ceiling, White |
| SCWLED-B | Strobe, Ceiling, White, Bilingual |
| SCWLED-P | Strobe, Ceiling, White, Plain |
| SCWLED-CLR- ALERT | Strobe, Ceiling, White, ALERT |
| L-Series Horns | |
| HRL* | Horn, Red |
| HRLA* | Horn, Red, Plain, ULC |
| HWL* | Horn, White |
| HWLA* | Horn, White, Plain, ULC |
| HGRL* | |
| | Compact Harn Red Plain III C |
| HGRLA* | Compact Horn, Red, Plain, ULC |
| HGWL* | Compact Horn, White |
| HGWLA* | Compact Horn, White, Plain, ULC |

| Model | Description |
|-------------|--|
| LED Lenses | |
| LENS-A3 | Lens LED Amber Wall/Ceiling |
| LENS-B3 | Lens LED Blue Wall/Ceiling |
| LENS-G3 | Lens LED Green Wall/Ceiling |
| LENS-R3 | Lens LED Red Wall/Ceiling |
| Accessories | |
| TR-2 | Universal Wall Trim Ring Red |
| TR-2W | Universal Wall Trim Ring White |
| SBBRL | Wall Surface Mount Back Box, Red |
| SBBWL | Wall Surface Mount Back Box, White |
| SBBGRL | Compact Wall Surface Mount Back Box, Red |
| SBBGWL | Compact Wall Surface Mount Back Box, White |
| TRC-2 | Universal Ceiling Trim Ring, Red |
| TRC-2W | Universal Ceiling Trim Ring, White |
| SBBCRL | Ceiling Surface Mount Back Box, Red |
| SBBCWL | Ceiling Surface Mount Back Box, White |
| Bezels† | |
| BZR | Wall Red Bezel Kit |
| BZW | Wall White Bezel Kit |
| BZGR | Compact Wall Red Bezel Kit |
| BZGW | Compact Wall White Bezel Kit |
| BZRC | Llora Ctroba Cailing Dad Dazal Kit |
| DZITO | Horn Strobe Ceiling Red Bezel Kit |

Notes for L-Series With LED Horn Strobes and Strobes:

All -P models have a plain housing (no "FIRE" marking on cover).

All -SP models have "FUEGO" marking on cover.

All -ALERT models have "ALERT" marking on cover.

All -B models have "FIRE/FEU" marking on cover for use in Canadian applications.

Amber lenses are not for use in Canadian applications

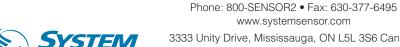
Notes for L-Series Horns:

*Horn-only models are listed for wall or ceiling use.

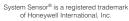
Notes for Bezels:

†Each bezel pack ships in a package of 5.

Add one of the following extensions for print/language options: -F (FIRE), -AL (ALERT), -EV (EVAC), -AG (AGENT), -P (Plain), -FR (FEU), -PG (FOGO), -SP (FUEGO), -SPE (FUEGO/FIRE).









3825 Ohio Avenue • St. Charles, IL 60174 USA



Outdoor, Selectable-Output Speaker Strobes and Dual-Voltage Evacuation Speakers for Wall Applications

SpectrAlert® Advance outdoor, selectable-output speaker strobes and dual-voltage evacuation speakers meet virtually any outdoor application requirement.

Features

- Weatherproof per NEMA 4X, IP56
- Rated from -40°F to 151°F
- · Plug-in design reduces ground faults
- Universal mounting plate with onboard shorting spring that tests wiring continuity before devices are installed
- Field-selectable candela settings: 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, and 185
- Automatic selection of 12- or 24-volt operation at 15 and 15/75 candela
- Rotary switch for speaker voltage (25 and 70.7 Vrms) and power settings (1/4, 1/2, 1 and 2 watts)
- Compatible with System Sensor synchronization protocol and legacy SpectrAlert products
- Tamper-resistant construction
- · Listed for ceiling or wall mounting

Agency Listings











SpectrAlert Advance offers the broadest line of outdoor speakers and speaker strobes in the industry. From metal and plastic outdoor back boxes, to white and red plastic housings, to wall and ceiling mounting options, SpectrAlert Advance can meet virtually any application requirement.

Wall-mount outdoor speakers and speaker strobes can be used indoors or outdoors in wet or dry applications, and can provide reliable operation from -40°F to 151°F. These speakers provide a broad frequency response range, low harmonic distortion and maintain a high sound pressure level at all tap settings to provide accurate and intelligible broadcast of evacuation messages.

Like the entire SpectrAlert Advance line, wall-mount outdoor speakers and speaker strobes include a variety of features that increase application flexibility and simplify installation. First, field-selectable settings, including candela, speaker voltage and power settings, and automatic selection of 12- or 24-volt operation enable installers to easily adapt devices to meet requirements.

Next, these devices use a universal mounting plate with an onboard shorting spring that ensures wiring continuity before devices are installed, so installers can verify proper wiring without mounting the devices and exposing them to potential construction damage. Once the plates are mounted, all SpectrAlert Advance devices utilize a plug-in design with a single captured screw to speed installation and virtually eliminate costly ground faults.

Outdoor devices ship with weatherproof plastic back boxes (metal back boxes are available separately) that accommodate in-andout wiring for daisy chaining devices. Plastic back boxes feature removable side flanges and improved resistance to saltwater corrosion. Knock-outs located on the back eliminate the need to drill holes for screw-in mounting. Plastic and metal weatherproof back boxes come with 34-inch top and bottom conduit entries and 34-inch knock-outs at the back. A screw-in NPT plug with an O-ring gasket for a watertight seal is included with each back box.

SpectrAlert® Advance Outdoor Speaker and Speaker Strobe Specifications

Architectural/Engineering Specifications

General

SpectrAlert Advance outdoor speakers and speaker strobes shall mount to a weatherproof back box. A universal mounting plate shall be used for mounting ceiling and wall products. The notification appliance circuit and amplifier wiring shall terminate at the universal mounting plate. Also, SpectrAlert Advance speaker strobes, when used with the Sync◆Circuit™ Module accessory, shall be powered from a non-coded notification appliance circuit output and shall operate on a nominal 12 or 24 volts. When used with the Sync◆Circuit Module, 12-volt-rated notification appliance circuit outputs shall operate between 8.5 and 17.5 volts; 24-volt-rated notification appliance circuit outputs shall operate between 16.5 and 33 volts. Outdoor SpectrAlert Advance products shall operate between −40°F and 151°F from a regulated DC, or full-wave rectified, unfiltered power supply.

Speaker

Speaker shall be a System Sensor SpectrAlert Advance Model _____ dual-voltage transformer speaker capable of operating at 25.0 or 70.7 nominal Vrms. Speaker shall be listed to Underwriters Laboratories Standard S4048 for outdoor fire protective signaling systems. Speaker shall have a frequency range of 400 to 4,000 Hz and shall have an operating temperature from –40°F to 150.8°F. Speaker shall have power taps and wattage settings that are selected by rotary switches. The speaker must be installed with its weatherproof back box in order to remain outdoor approved per UL listing S4048. The speaker shall be suitable for use in air handling spaces and wet environments.

Speaker Strobe Combination

The speaker strobe shall be a System Sensor Model _____ listed to UL 1638 and UL 1480 and be approved for fire protective signaling systems. Speaker shall be capable of operating at 25.0 or 70.7 nominal Vrms and shall have a frequency range of 400 to 4,000 Hz. Speaker shall have power taps that are selected by rotary switch. The strobe shall consist of a xenon flash tube with associated lens/reflector system and operate on either 12 or 24 volts. The strobe shall also feature selectable candela output, providing options for 15 or 15/75 candela when operating on 12 volts and 15, 15/75, 30, 75, 110, 115, 135, 150, 177 or 185 candela when operating on 24 volts. The strobe shall comply with the Americans with Disabilities Act requirement for visible signaling appliances, flashing at 1 Hz over the strobe's entire operating voltage range. The speaker strobe must be installed with its weatherproof back box in order to remain outdoor approved per UL. The speaker strobe shall be suitable for use in wet environments.

| Physical Cussifications | |
|--|--|
| Physical Specifications | |
| Operating Temperature | -40°F to 151°F (-40°C to 66°C) |
| Dimensions, Wall-Mount | |
| SPS Speaker Strobe | $6.0^{\circ}\text{L} \times 5.0^{\circ}\text{W} \times 4.7^{\circ}\text{D}$ (including lens and speaker) |
| SP Speaker | 6.0″L × 5.0″W × 2.9″D |
| Dimensions, Wall-Mount Weatherproof Back Box | 6.5″L × 5.5″H × 2.9″D |
| Electrical/Operating Specifications | |
| Nominal Voltage (speakers) | 25 V or 70.7 V (nominal) |
| Maximum Supervisory Voltage (speakers) | 50 VDC |
| Strobe Flash Rate | 1 flash per second |
| Nominal Voltage (strobes) | Regulated 12 VDC/FWR or regulated 24 DC/FWR |
| Operating Voltage Range (includes fire alarm | 8 to 17.5 V (12 V nominal) or 16 to 33 V (24 V nominal) |
| panels with built in sync) | |
| Operating Voltage with MDL3 Sync Module | 8.5 to 17.5 V (12 V nominal) or 16.5 to 33 V (24 V nominal) |
| Frequency Range | 400 to 4,000 Hz |
| Power | 1/4, 1/2, 1, 2 watts |

UL Current Draw Data

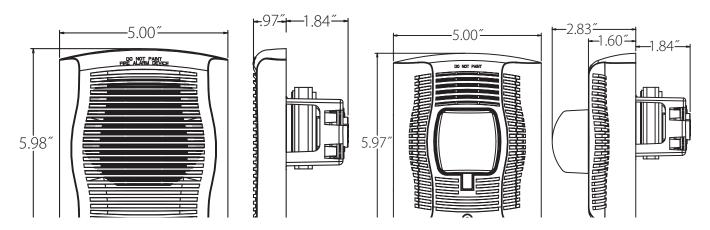
| UL Max. Strobe Cu | rrent Draw (m <i>A</i> | RMS) | | | | |
|-------------------------------|------------------------|-----------|-------|------------|-------|--|
| | | 8 to 17.5 | Volts | 16 to 33 \ | Volts | |
| | Candela | DC | FWR | DC | FWR | |
| Standard | 15 | 123 | 128 | 66 | 71 | |
| Candela Range | 15/75 | 142 | 148 | 77 | 81 | |
| | 30 | NA | NA | 94 | 96 | |
| | 75 | NA | NA | 158 | 153 | |
| | 95 | NA | NA | 181 | 176 | |
| | 110 | NA | NA | 202 | 195 | |
| | 115 | NA | NA | 210 | 205 | |
| High | 135 | NA | NA | 228 | 207 | |
| Candela Range | 150 | NA | NA | 246 | 220 | |
| | 177 | NA | NA | 281 | 251 | |
| | 185 | NA | NA | 286 | 258 | |
| Sound Output | | | | | | |
| UL Reverberant (dBA @ 10 ft.) | | 2W | 1W | ½ W | 1⁄4 W | |
| Outdoor Speaker | | 90 | 87 | 84 | 81 | |
| Outdoor Speaker/S | trobe | 89 | 86 | 83 | 80 | |

Candela Derating

For K series products used at low temperatures, listed candela ratings must be reduced in accordance with this table.

| Strobe Output (cd) | |
|--------------------|-------------------------|
| Listed Candela | Candela rating at –40°F |
| 15 | |
| 15/75 | Do not use below 32°F |
| 30 | |
| 75 | 44 |
| 95 | 70 |
| 110 | 110 |
| 115 | 115 |
| 135 | 135 |
| 150 | 150 |
| 177 | 177 |
| 185 | 185 |

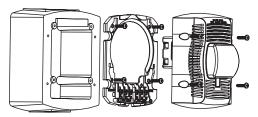
Dimensions



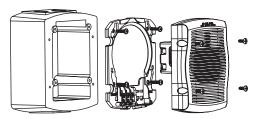
Wall-Mount Outdoor Speaker

Wall-Mount Outdoor Speaker Strobe

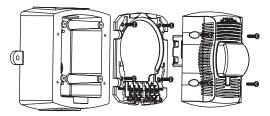
Surface Mounting



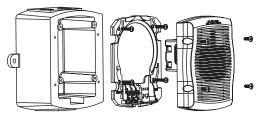
Wall-Mount Speaker Strobe with Plastic Weatherproof Back Box



Wall-Mount Speaker with Plastic Weatherproof Back Box



Wall-Mount Speaker Strobe with Metal Weatherproof Back Box



Wall-Mount Speaker with Metal Weatherproof Back Box

Ordering Information for SpectrAlert® Advance Outdoor Speakers and Speaker Strobes

| Wall Mount | | |
|-----------------|---------|---|
| White | Red | Description |
| SPWK | SPRK | Outdoor Speaker (includes plastic weatherproof back box) |
| SPWK-R | SPRK-R | Outdoor Speaker (does not include plastic weatherproof back box) |
| SPSWK | SPSRK | Outdoor Speaker Strobe, Standard cd (includes plastic weatherproof back box) |
| SPSWK-P | SPSRK-P | Plain Outdoor Speaker Strobe, Standard cd(includes plastic weatherproof back box) |
| SPSWK-R | SPSRK-R | Outdoor Speaker Strobe, Standard cd(does not include weatherproof back box) |
| SPSWK-CLR-ALERT | _ | Outdoor Speaker Strobe, Standard cd, Clear Lens, ALERT Printed (includes plastic weatherproof back box) |
| _ | SPSRHK | Outdoor Speaker Strobe, High cd (135,150,177,185) (includes plastic weatherproof back box) |
| Accessories | | |
| White | Red | Description |
| MWBBW | MWBB | Wall, Metal Weatherproof Back Box |

Notes

All -P models have a plain housing (no "FIRE" marking on cover)

"Standard cd" refers to strobes that include 15, 15/75, 30, 75, 95, 110, and 115 candela settings. "High cd" refers to strobes that include 135, 150, 177, and 185 candela settings. When replacing standard outdoor units, both the device and back box must be replaced.

