DSA **140**

APPLICATION FOR SUBMITTAL OF POST-APPROVAL DOCUMENT

This application is for submittal of documents, after the initial approval of the project (post-approval documents), that require Division of the State Architect (DSA) review and approval.This form shall be completed by the Design Professional in General Responsible Charge of the project, in accordance with California Code of Regulations, Title 24, Part 1, Sections 4-317, 4-323 and 4-338 and in compliance with DSA IR A-6: Construction Change Document Submittal and Approval Process.

DSA documents referenced within this form are available on the DSA Forms or DSA Publications webpages.

1. SUBMITTAL TYPE: (Is this a resubmittal? Yes ☐ No ☐)

Deferred Submittal ☐	Addendum Number: 001	Revision Number:	CCD Number: Category A ☐ or B ☐

2. PROJECT INFORMATION:

School District/Owner: Encinita Elementary School | Rosemead School District	DSA File Number: 19 91
Project Name/School: New Automatic Fire Alarm and Voice Evacuation System at Entire Site	DSA Application Number 03 119066

3. APPLICANT INFORMATION:

Date Submitted:	Attached Pages? No ☐ Yes ☑ Number of pages?		
Firm Name: NAC Architecture	Contact Name: Gary Christofi		
Work Email: gchristofi@nacarchitecture.com	Work Phone: (323) 475-8075		
Firm Address: 837 N. Spring St. Third Floor	City: Los Angeles	State: CA	Zip Code: 90012

4. REASON FOR SUBMITTAL: (Check applicable boxes)

☑ For revision or addendum prior to construction.	☐ For a project currently under construction.

☐ For a project that has a form *DSA 301-N: Notification of Requirement for Certification*, *DSA 301-P: Posted Notification of Requirement for Certification* or a 90-Day Letter issued.

☐ To obtain DSA approval of an existing uncertified building or buildings.

☐ For Category B CCD this is: ☐ a voluntary submittal, ☐ a DSA required submittal (attach DSA notice requiring submission).

5. DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE:

Name of the Design Professional In General Responsible Charge: Helena Jubany

Professional License Number: C22214	Discipline: Architect

Design Professional in General Responsible Charge Statement: The attached post-approval documents have been examined by me for design intent and appear to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications. They are acceptable for incorporation into the construction of the project.

Signature: _____

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE

6. CONFIRMATION, DESCRIPTION AND LISTING OF DOCUMENTS:

For addenda, revisions, or CCDs: CHECK THIS BOX ☑ to confirm that *all* post-approval documents have been stamped and signed by the Responsible Design Professional listed on form *DSA 1: Application for Approval of Plans and Specifications* for this project. (For *Deferred Submittals*, refer to *IR A-18: Use of Construction Documents Prepared by Other Professionals,* and *IR A-19: Design Professional's Signature and Seal (Stamp) on Construction Documents*, when applicable, for signature and seal requirements.)

Provide a brief description of construction scope for this post-approval document (attach additional sheets if needed):

Due to delays in manufacturing of the Fire Lite Fire Alarm Panel, replacement approved Fire Alarm components manufacturer's (Honeywell) model from "Fire-Lite" to "Silent Knight"

List of DSA-approved drawings affected by this post-approval document:

DSA USE ONLY

SSS _____ Date _____ ☐Approved ☐Disapproved ☐Not Required

Comments: _____

FLS FC Date 12/17/2020 ☐Approved ☐Disapproved ☐Not Required

Comments: _____

ACS _____ Date _____ ☐Approved ☐Disapproved ☐Not Required

Comments: _____

Returned	DSA STAMP
Date:	
By:	

Pacific Engineers Group
Consulting Electrical Engineers
In Business Since 1978

Jimmy Fong, PE

Y. Danny Ho, PE

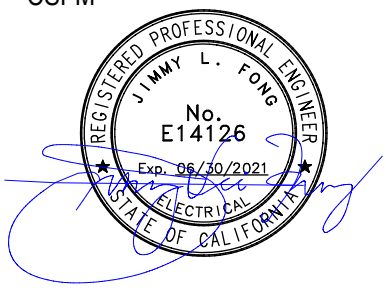
Addendum-001 | 03-119066
AS REVISED

Fire Alarm System Component Submittal

for

ENCINITA ELEMENTARY SCHOOL

- Fire Alarm Control Panel "Silent Knight # 6820 EVS"
- Annunciator Panel "Silent Knight # EVS-LOC"
- Remote Power Supply "Silent Knight # 5496"
- Remote Amplifier "Silent Knight # EVS-50W"
- Pull Station
- Photoelectric Smoke Detectors
- Heat Detectors
- Carbon Monoxide-Photoelectric Smoke Detectors
- Linear Heat Detector
- Combination Speaker-Strobe
- Strobes
- Exterior Speaker
- Monitor Module
- Relay Module
- CSFM



6820EVS

Addendum-001 | 03-119066
AS REVISED

Intelligent Fire Alarm Control Panel with Emergency Voice System

The 6820EVS panel and accessories provide features to meet the requirements for Mass Notification Systems as described in UL 2572.

The 6820EVS is an intelligent addressable Fire Alarm Control Panel combined with an Emergency Voice System (EVS) and are direct replacements for the 5820XL-EVS FACP. When the EVS features are enabled, they are integrated with the fire alarm and voice evacuation functions of the control panel.

The emergency voice system operations include an onboard supervised microphone. All-call and non-active call buttons can quickly select all active or non-active output groups. The system also allows for emergency messages over fire.

The 6820EVS FACP has one built-in signaling line circuit (SLC), which can support 159 SK detectors and 159 SK modules, or 127 SD protocol devices. Additional SLC loops can be added for a maximum of 1110 (SK) or 635 (SD) points per panel.

The built-in digital alarm communicator/transmitter (DACT) is dual technology, IP and POTS. The POTS transmits system status (alarms, troubles, AC loss, etc.) to a Central Station via the public switched telephone network. The IP communicator's internet monitoring capability sends alarm signals over the Internet saving the monthly cost of two dedicated business telephone lines. Although not required, the secondary telephone line may be retained providing backup communication over the public switched telephone line. Optional cellular reporting is available.

The 6820EVS has six onboard Flexput® circuits that can be configured as notification outputs or auxiliary power. The 6820EVS also 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 a calibration trouble alert.

A 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.

FEATURES AND BENEFITS

- Single enclosure for both fire and emergency voice components
- Ability to select EVS messages as priority over fire
- 15 Recordable one-minute messages that can be mapped to eight EVS buttons
- Capable of producing 520 Hz tones to meet NFPA 72 requirements
- Support for up to 4 LOCs and 8 addressable amplifiers
- Expandable SLC loops to 1110 (SK) or 635 (SD) point capacity
- Six Flexput circuits for NAC outputs or auxiliary power
- Selectable strobe synchronization for Amseco®, System Sensor, Wheelock®, and Gentex® devices
- Built-in DACT with IP and optional cellular reporting
- Built-in USB interface for quick and easy programming
- JumpStart® auto programming reduces installation time
- 999 software zones & 999 output groups for flexible design options
- 23 preset notification cadence patterns (including ANSI® 3.41)
- Allows up to 24 SBUS devices
- Four programmable function keys
- Two programmable relays and one fixed trouble relay
- Compatible with SWIFT® wireless devices
- Convenient field-upgradeable firmware
- Network support for up to 17 sites
- Network card allows copper network connection with a multi-mode or single-mode fiber connection
- Real-time clock/calendar with automatic daylight savings control
- History file with 1,000 event capacity

Honeywell
SILENT KNIGHT

USER INTERFACE

LED INDICATORS

- General Alarm (Red)
- Supervisory (Yellow)
- System Trouble (Yellow)
- System Silenced (Yellow
- System Power (Green)

KEYPAD

- 12-key numeric pad
- Acknowledge
- Alarm Silence
- System Reset
- Drill
- F1-F4 Programmable Function Keys

PROGRAMMING

The 6820EVS system offers several options to simplify and expedite programming. JumpStart® auto programming minimizes programming required to start a new system. The built-in keypad, or the remote annunciators give on-site access to current system programming. System programming can also be accomplished using the Windows®-based Honeywell Fire Software Suite (HFSS).

ORDERING INFORMATION

6820EVS: Addressable fire alarm control panel, red

COMPATIBLE EVS EQUIPMENT

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: Provides 4 additional audio circuits

EVS-RVM: Remote voice module

EVS-SW24: 24 switch expander

EVS-VCM: Network voice control module

EVS-LOC: Local operator console

COMPATIBLE SBUS DEVICES

6860: 4x40 LCD remote fire annunciator with four programmable buttons, red

5860: 4x20 LCD remote fire annunciator, gray

5860R: 4x20 LCD remote fire annunciator, red

6855: 4x20 LCD remote fire annunciator, red

5865-3: LED annunciators- display up to 30 LEDs (15 red/15 yellow)

5865-4: LED annunciators- display up to 30 LEDs (15 red/15 yellow). Key switches for silence and reset, and a system trouble LED

5880: LED I/O module with 40 programmable LED outputs and eight supervised dry contact inputs

5883: Relay interface. Provides 10 Form C relays

5824: Serial/Parallel printer interface module for printer connection

SK COMPATIBLE ADDRESSABLE DEVICES

Note: SKand SD devices cannot be mixed in the same fire alarm system.

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

OSI-RI-SK: Reflected beam smoke detector, SK protocol

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-FIRE-CO-W: Four criteria fire and carbon monoxide detector, white

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

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

SK-HEAT-ROR: Fixed rate of rise detector

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

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

SK-HEAT-ROR-W: Fixed rate of rise detector, 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-R: Photoelectric detector with remote test capability

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

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

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

SK-PTIR-W: Multi criteria photoelectric smoke detector with thermal 135°F fixed temperature, 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 module

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

SK-ZONE: Addressable zone interface module

SK-ZONE-6: Six zone interface module

SK BASES

B210LP: 6" mounting base

B501: 4" Flangeless mounting base

B200S: Intelligent sounder base

B200S-LF: Low-frequency intelligent sounder base

B224RB: Relay base

B224BI: Isolator base

SD COMPATIBLE ADDRESSABLE DEVICES

Note: SK and SD devices cannot be mixed in the same fire alarm system.

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/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 module

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

SWIFT WIRELESS DEVICES

Note: 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 with B501W base

WSK-PHOTO-T: Wireless photoelectric smoke detector with fixed thermal detection (135°F) and B501W base

W-SYNC: Wireless sync module

WSK-HEAT: Wireless, fixed heat detector (135°F) with B501W base

WSK-HEAT-ROR: Wireless rate-of-rise heat detector and B501W base

WSK-MONITOR: Wireless monitor module

WSK-RELAY: Wireless relay module

WSK-PULL-DA: Wireless pull station

WAV-CRL, WAV-CWL: Wireless AV bases

W-USB: Wireless USB radio/antenna dongle that plugs into the USB port of a PC running SWIFT Tools

SWIFT Tools: Programming and diagnostic utility for the wireless gateway and devices. Available for download from www.farenhyt.com

SYSTEM EXPANDERS

6815: SLC Expander for IDP or SK devices

5815XL: SLC expander for SD devices

RPS-1000: 6A power supply with 6 Flexput circuits & 2 Form C relays

5496: 6 amp NAC power expander with 4 power-limited output ckts

OPTIONAL COMMUNICATORS

CELL-CAB-SK: Cellular communicator, metal enclosure w/lock & key

CELL-MOD: Cellular communicator, plastic enclosure

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

MISCELLANEOUS ACCESSORIES

SK-NIC: Network Interface Card. Provides a common communications link for the IFP-300

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

SK-SCK: Seismic compliance kit used to fasten batteries to the fire panel

SOFTWARE SOLUTIONS

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

HFSS: Honeywell Fire Software Suite provides remote and local panel programming, detector status, event history and additional data. Databases can be uploaded/downloaded via the panel's USB port using a flash drive. Requires a PC running Microsoft® Windows®.

6820EVS TECHNICAL SPECIFICATIONS

SYSTEM CAPACITY

Intelligent Signaling Line Circuits: 1 (expandable)

Addressable device capacity: 1110 (SK) or 635 (SD)

Programmable software zones: 999

Output circuits: 6 (expandable)

SBUS devices: 24 (16 annunciators, 8 LED modules)

LOC units: 4

Addressable amplifiers (total watts): 8 (1000)

ELECTRICAL

AC Power: 120VAC, 60Hz, 2.7A

Standby Current: 190 mA

Alarm Current: 250 mA

Flexput Circuits: Terminal block provides connections for (six Class B or three Class A) NACs or auxiliary power. Power-limited, supervised circuitry. Maximum current per circuit: 3 A. Cannot exceed 6A total for all circuits. End-of-line resistor: 4.7k ohm, ½ watt for Class B NAC

Communication Loop: Supervised and power-limited, Class A or Class B, 32VDC, 150mA

Two Programmable Relays and One Fixed Trouble Relay: Contact rating: 2.5 A @ 27.4 VDC (resistive), Form C

Battery: Cabinet holds maximum of two 18 AH batteries

Battery Charger Capacity: 7-35 AH

PHYSICAL

Dimensions: 21.6" W x 28.1" H x 5.1" D (54.9cm W x 71.4cm H x 13.0cm D)

Weight: 50 lbs. (22.7 kg.)

Color: Red

TEMPERATURE AND HUMIDITY RANGES

This system meets NFPA requirements for operation at 0 – 49°C (32– 120°F) and at a relative humidity 93% ± 2% RH (non-condensing) at 32°C ± 2°C (90°F ± 3°F). However, the useful life of the system's standby batteries and the electronic components may be adversely affected by extreme temperature ranges and humidity. Therefore, it is recommended that this system and its peripherals be installed in an environment with a normal room temperature of 15 – 27°C/60 – 80°F.

NFPA STANDARDS

The 6820 complies with the following NFPA 72 Fire Alarms Systems requirements: 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

AGENCY LISTINGS AND APPROVALS

The listings and approvals below apply to the basic 6820 control panel. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

UL Listed: S2766

CSFM: 7165-0559:0500

FDNY: COA# 6249

FM: Approved

This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice.

Country of origin: USA

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

351606 | D | 03/20

Honeywell
SILENT KNIGHT

CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION
OFFICE OF THE STATE FIRE MARSHAL
FIRE ENGINEERING - BUILDING MATERIALS LISTING PROGRAM

LISTING SERVICE

Addendum-001 | 03-119066
AS REVISED

LISTING No. 7165-0559:0500

CATEGORY: 7165 -- FIRE ALARM CONTROL UNIT (COMMERCIAL)

LISTEE: SILENT KNIGHT SECURITYOne Fire-Lite Place, Northford, CT 06472-1653
Contact: Megan Sisson (203) 484-6544 Fax (203) 484-7309
Email: megan.sisson@honeywell.com

DESIGN: Silent Knight Model 6820 and 6820-EVS, Fire Alarm Control Unit, automatic, manual, local, remote station (PPU), central station (PPU), releasing (water deluge only) and mass notification services (6820-EVS). *The CELL-MOD and CELL-CAB-SK have the option to be configured by a compatible control unit for the following pathways: Cellular only without a backup path, primary Cellular communication path, or secondary Cellular communication path.

Model 6820 System Components:

5860 Remote Annunciator
6855 Remote Annunciator
6860 Remote Annunciator
5496 NAC Expander
5880 LED I/O Module
5865-3 Remote LED Annunciator
5865-4 Remote LED Annunciator
5883 Relay Interface
5824 Serial/Paralell Printer Interface Module
5895XL Power Supply
SK-NIC Network Inerface Card
SK-FML Mulit Mode Fiber Card
SK-FSL Single Mode Fiber Card
CELL-MOD Celullar Communicator in Plastic Enclosure
CELL-CAB-SK Cellular Communicator in Metal Enclosure with Lock & Key
RBB Remote Battery Box (16"WX10"HX6"D)
SK-SKC Seismic Complaince Kit
5815XL SLC Expander
6815 SLC Expander

Model 6820EVS System Components:

EVS-50W 50 Watt Amplifier
EVS-100W 100 Watt Amplifier
EVS-125W 125 Watt Amplifier

*Rev 10-02-19 gt

Date Issued: **July 01, 2020** *Listing Expires* **June 30, 2021**

Authorized By: ***DAVID CASTILLO,**, M.E., F.P.E.*

Fire Engineering Division

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 Control
5860 Remote Annunciator
6855 Remote Annunciator
6860 Remote Annunciator
5496 NAC Expander
5880 LED I/O Module
5865-3 Remote LED Annunciator
5865-4 Remote LED Annunciator
5883 Relay Interface
5824 Serial/Paralell Printer Interface Module
5895XL Power Supply
SK-NIC Network Inerface Card
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SK-FSL Single Mode Fiber Card
CELL-MOD Celullar Communicator in Plastic Enclosure
CELL-CAB-SK Cellular Communicator in Metal Enclosure with Lock & Key
RBB Remote Battery Box (16"WX10"HX6"D)
SK-SCK Seismic Complaince Kit
5815XL SLC Expander
6815 SLC Expander
SK-NIC-KIT

RATING: Primary Operating Power Supply:
120VAC, 60HZ, 3.25A

Secondary Operating Power Supply:
24VDC, 750 mA, 55Ah

INSTALLATION: In accordance with listee's printed installation instructions, applicable codes and ordinances and in a manner acceptable to the authority having jurisdiction.

MARKING: Listee's name, model number, electrical rating, and UL label.

APPROVAL: Listed as a commercial fire alarm control unit for use with separately listed initiating and indicating devices and for mass notication. Refer to listee’s Installation Instruction Manual for details.

*Rev 10-02-19 gt

Date Issued: **July 01, 2020** *Listing Expires* **June 30, 2021**

Authorized By: ***DAVID CASTILLO,**, M.E., F.P.E.*

Fire Engineering Division

Addendum-001 | 03-119066
AS REVISED

Honeywell Silent Knight EVS-LOC

Local Operator Console

The EVS-LOC local operator console is a powerful addition to any emergency voice system for mass notification purposes. The console is a combination supervised remote microphone and annunciator which is compatible with the EVS-Series Emergency Voice System and meets UL requirements for a local operator console (LOC).

The EVS-LOC provides an interface to the 6820EVS Emergency Voice System. It has a supervised on-board microphone for live communications and its annunciator is capable of performing complete operation of the fire alarm system, including silencing and resetting.

It has a large 4x40 LCD backlit screen with up to 160 available characters, providing ample space for messaging. The EVS-LOC also has four programmable buttons which can be used to minimize time spent executing complex or routine tasks.

The console's emergency communication system operations includes an on-board supervised microphone, and all call and non-active call buttons that can quickly select all active or all non-active output groups. The system also lets you select an EVS message as a priority over fire.

The EVS-CE4 is a useful addition to an EVS-LOC application. It adds four audio circuits to the EVS-50W, EVS-100W or EVS-125W, mappable to 32 buttons controlling selected output groups. It is very useful for extended coverage and requires no additional space as it mounts inside the amplifier cabinet.

The 5880 LED / IO module can also be used with an EVS-LOC application. The module provides an effective means to customize your remote

EVS-LOC

annunciation, providing 40 programmable LED outputs and eight supervised dry contact inputs. You can use up to eight 5880 modules on one EVS-LOC control panel for maximum flexibility. Its compact size enables it to be mounted inside the EVS-LOC, or in an accessory cabinet.

About Silent Knight's emergency voice system: The 6820EVS is a fire and emergency voice communication system conveniently integrated and housed in one panel, and meets the requirements for mass notification as described in UL 2572.

COMPATIBILITY

6820EVS: Addressable fire alarm control panel with an emergency mass notification system, up to 1,110 addressable points, a large 160 character 4 x 40 display, and four programmable buttons that can be programmed for routine or complex tasks

Note: It can also be used with existing 5820XL-EVS installations

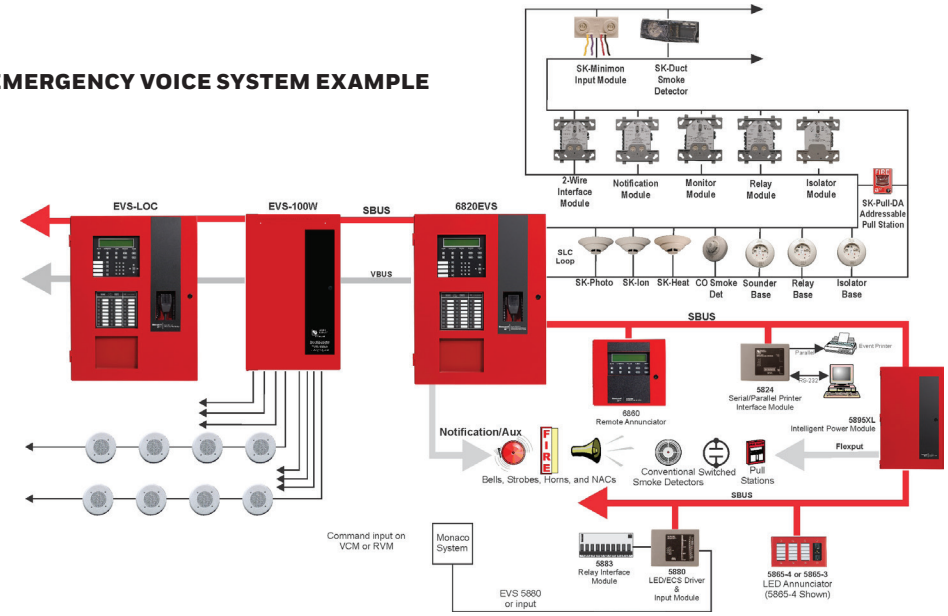
FEATURES & BENEFITS

- Provides additional communications and control options that are also available in the 6820EVS primary panel
- Useful for extending system access to additional areas of a building or mass notification network
- Makes access to the communication system easier when immediate and timely communications are essential
- The optional VIP-TR trim ring is useful for creating a visual appealing interface between the panel and mounting wall
- Up to four EVS-LOCs can be added to a compatible emergency voice system for a total of five command units. This provides additional control options which are critical during emergency events when the 6820EVS panel is not within easy reach.
- For added flexibility, it can also accept programmable trigger inputs from external source, such as a Monaco® system, to either the RVM or Silent Knight's 5880. Up to eight inputs are available on the 5880 module.
- Up to 32 mappable speaker circuits can be connected on the EVS-LOC using a combination of the EVS-50W, EVS-100W or EVS-125W amplifiers. This is useful for extended reach during times when urgent emergency communication is required.

EVS-LOC Technical Specifications

Addendum-001 | 03-119066
AS REVISED

EMERGENCY VOICE SYSTEM EXAMPLE



SPECIFICATIONS

PHYSICAL

Overall Dimensions: 20”W x 26.5”H x 5.05”D (50.75 W x 67.3 H x 12.8D cm)

Color: Red

ENVIRONMENTAL

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

Humidity: 10% – 93% non-condensing

ELECTRICAL

Standby Current: 100mA (6860 + RVM + SW-24)

Alarm Current: 150mA (6860 + RVM + SW-24)

Voice Integration Wiring:

Six conductor
Two voice bus
Four SBUS

ORDERING INFORMATION

EVS-LOC: Local Operators Console

ACCESSORIES

EVS-SW24: 24 switch expander

VIP-TR: panel trim ring for flush mounting

5880: LED/IO module

EVS-CE4: 4 speaker circuit expander

AGENCY LISTINGS AND APPROVALS

UL 864 and UL 2572

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

CSFM approved 7165-0559:0500

FDNY COA (pending)

INSTALLATION

The EVS-LOC can be surface or flush mounted.

For a complete listing of all compliance approvals and certifications, please visit www.silentknight.com.

For Technical Support, call 800-446-6444.

For more information

Learn more about Honeywell Silent Knight and other products by visiting www.silentknight.com

Honeywell Silent Knight
12 Clintonville Road
Northford, CT 06472
800-328-0103

Doc 351631 | Rev A | 10/17

Honeywell
SILENT KNIGHT

LISTING SERVICE

Addendum-001 | 03-119066

LISTING No. 7165-0559:0500 **AS REVISED**

CATEGORY: 7165 -- FIRE ALARM CONTROL UNIT (COMMERCIAL)

LISTEE: SILENT KNIGHT SECURITYOne Fire-Lite Place, Northford, CT 06472-1653
Contact: Megan Sisson (203) 484-6544 Fax (203) 484-7309
Email: megan.sisson@honeywell.com

DESIGN: Silent Knight Model 6820 and 6820-EVS, Fire Alarm Control Unit, automatic, manual, local, remote station (PPU), central station (PPU), releasing (water deluge only) and mass notification services (6820-EVS). *The CELL-MOD and CELL-CAB-SK have the option to be configured by a compatible control unit for the following pathways: Cellular only without a backup path, primary Cellular communication path, or secondary Cellular communication path.

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EVS-100W 100 Watt Amplifier
EVS-125W 125 Watt Amplifier

*Rev 10-02-19 gt

Date Issued: **July 01, 2020** *Listing Expires* **June 30, 2021**

Authorized By: ***DAVID CASTILLO,**, M.E., F.P.E.*

Fire Engineering Division

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 Control
5860 Remote Annunciator
6855 Remote Annunciator
6860 Remote Annunciator
5496 NAC Expander
5880 LED I/O Module
5865-3 Remote LED Annunciator
5865-4 Remote LED Annunciator
5883 Relay Interface
5824 Serial/Paralell Printer Interface Module
5895XL Power Supply
SK-NIC Network Inerface Card
SK-FML Mulit Mode Fiber Card
SK-FSL Single Mode Fiber Card
CELL-MOD Celullar Communicator in Plastic Enclosure
CELL-CAB-SK Cellular Communicator in Metal Enclosure with Lock & Key
RBB Remote Battery Box (16"WX10"HX6"D)
SK-SCK Seismic Complaince Kit
5815XL SLC Expander
6815 SLC Expander
SK-NIC-KIT

RATING: Primary Operating Power Supply:
120VAC, 60HZ, 3.25A

Secondary Operating Power Supply:
24VDC, 750 mA, 55Ah

INSTALLATION: In accordance with listee's printed installation instructions, applicable codes and ordinances and in a manner acceptable to the authority having jurisdiction.

MARKING: Listee's name, model number, electrical rating, and UL label.

APPROVAL: Listed as a commercial fire alarm control unit for use with separately listed initiating and indicating devices and for mass notication. Refer to listee’s Installation Instruction Manual for details.

*Rev 10-02-19 gt

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Authorized By: ***DAVID CASTILLO,**, M.E., F.P.E.*

Fire Engineering Division

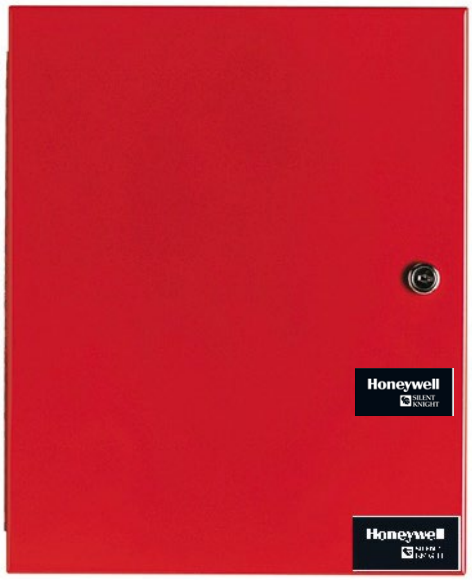
Addendum-001 | 03-119066
AS REVISED

5496

Intelligent Power Module

The 5496 intelligent power module is the most cost-effective power supply available today. It delivers 6 amps of notification appliance circuit power and built-in synchronization for appliances from System Sensor®,Gentex®, AMSECO, and Wheelock®. The 5496's advanced microprocessor design is years ahead of the competition. Its switch mode power supply design is up to 50% more efficient than competitive linear mode power supplies.

The 5496 is a 6 amp notification power expander that provides its own AC power connection, battery charging circuit, and backup battery for use with the Honeywell Silent Knight series fire alarm control panels (FACPs). The 5496 is the cost-effective solution for powering notification appliances required by the Americans with Disabilities Act (ADA). The 5496 has built-in ANSI cadence pattern. The output circuits can be programmed as notification appliance circuits, or as auxiliary power (configurable for constant, resettable, or door holder power).



5496

Compatibility

The 5496 is compatible with the following Honeywell Silent Knight FACPs:

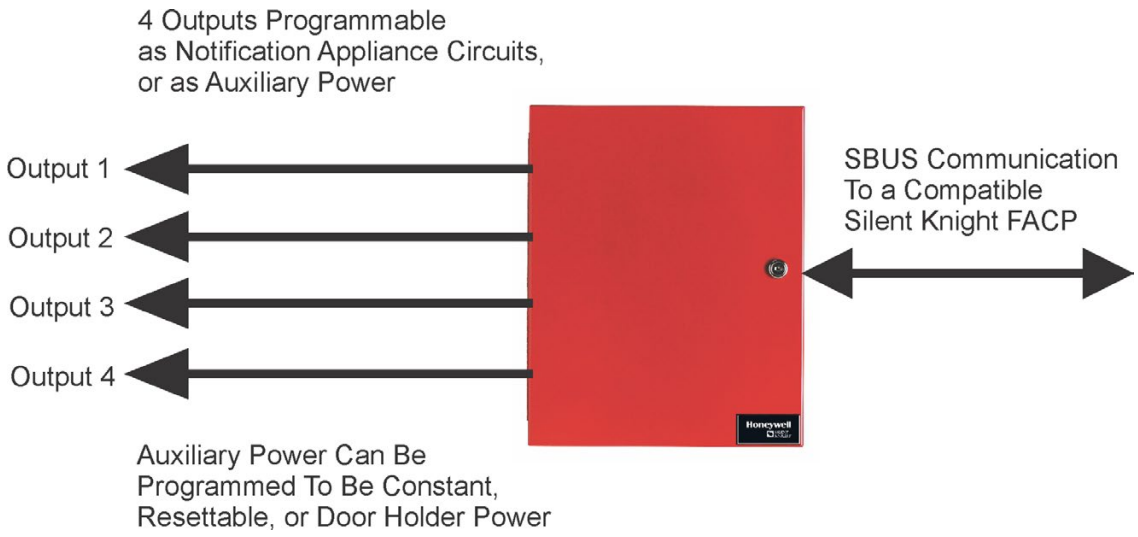
- 6820 / 6820EVS
- 5820XL / 5820XL-EVS
- 6808
- 6700
- 5808
- 5700

FEATURES & BENEFITS

- UL Listed for 6 amps of notification power
- Power supply's advanced switch mode design reduces damaging heat and manages power up to 50% more efficiently than other systems
- 24 VDC filtered output voltage
- Built-in synchronization for appliances from Gentex, AMSECO, System Sensor, and Wheelock
- Four power-limited notification outputs; 2 Class A or 4 Class B, or 1 Class A and 2 Class B
- NACs are programmable as notification appliance circuits, or as auxiliary power to be used as constant, resettable, or door holder power
- 3 amps per output circuit
- Ground fault detector
- CSFM approved
- Communicates to the FACP via 4-wire SBUS (wire runs up to 6000 ft)
- AC loss delay option shuts off power to non-essential high current accessories like magnetic door holders
- MEA approved
- Lightweight design adds to ease of installation and reduces shipping costs
- ANSI Cadence pattern output capability built-in
- UL 864,1481 & 1971 listed
- OSHPD (CA) OSP-0065-10 (see accessories)

Addendum-001 | 03-119066
AS REVISED

5496 Technical Specifications



For a complete listing of all compliance approvals and certifications, please visit www.silentknight.com.

For Technical Support, call 800-446-6444

PHYSICAL

Overall Dimensions: 16" H x 12.25" W x 3" D (40.6 x 30.9 x 7.6 cm)
Shipping Weight: 8.7lbs

ENVIRONMENTAL

Operating Temperature: 32°F to 120°F (0°C to 49°C)
Humidity: 10 to 93% relative humidity (non-condensing)

ELECTRICAL:

AC Input: 120VAC at 2.7A
Output: 24VDC at 6A
Standby & Alarm Current: 10mA
Notification/Aux. Power Circuits: 4
Output Configuration:
2 Class A (Style Z)
4 Class B (Style Y)
1 Class A & 2 Class B
Amps Per Output Circuit: 3.0 (6.0 amps total)
Notification Circuit Output: 20.4 – 27.3VDC @ 3.0A each
End-of-Line Resistance: 4.7k W EOL resistor required on each Class B circuit
Battery Charging Capacity: 7.0 – 35.0AH

ORDERING INFORMATION

5496: Intelligent Power Module

ACCESSORIES

RBB: Remote Battery Box Accessory Cabinet. 16" W x 10" H x 6" D (406 mm W x 254 mm H x 152 mm D)
SK-SCK: Seismic Compliance Kit

AGENCY LISTINGS AND APPROVALS

- CSFM approved
- NFPA 72
- UL listed
- FM approved
- City of NY: 429-90-E Vol XIV

For more information
Learn more about Silent Knight's Product and other products available by visiting www.silentknight.com

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

Doc 350387| Rev F| 11/17

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CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION
OFFICE OF THE STATE FIRE MARSHAL
FIRE ENGINEERING - BUILDING MATERIALS LISTING PROGRAM

LISTING SERVICE

Addendum-001 | 03-119066
AS REVISED

LISTING No. 7165-0559:0500

CATEGORY: 7165 -- FIRE ALARM CONTROL UNIT (COMMERCIAL)

LISTEE: SILENT KNIGHT SECURITYOne Fire-Lite Place, Northford, CT 06472-1653
Contact: Megan Sisson (203) 484-6544 Fax (203) 484-7309
Email: megan.sisson@honeywell.com

DESIGN: Silent Knight Model 6820 and 6820-EVS, Fire Alarm Control Unit, automatic, manual, local, remote station (PPU), central station (PPU), releasing (water deluge only) and mass notification services (6820-EVS). *The CELL-MOD and CELL-CAB-SK have the option to be configured by a compatible control unit for the following pathways: Cellular only without a backup path, primary Cellular communication path, or secondary Cellular communication path.

Model 6820 System Components:

5860 Remote Annunciator
6855 Remote Annunciator
6860 Remote Annunciator
5496 NAC Expander
5880 LED I/O Module
5865-3 Remote LED Annunciator
5865-4 Remote LED Annunciator
5883 Relay Interface
5824 Serial/Paralell Printer Interface Module
5895XL Power Supply
SK-NIC Network Inerface Card
SK-FML Mulit Mode Fiber Card
SK-FSL Single Mode Fiber Card
CELL-MOD Celullar Communicator in Plastic Enclosure
CELL-CAB-SK Cellular Communicator in Metal Enclosure with Lock & Key
RBB Remote Battery Box (16"WX10"HX6"D)
SK-SKC Seismic Complaince Kit
5815XL SLC Expander
6815 SLC Expander

Model 6820EVS System Components:

EVS-50W 50 Watt Amplifier
EVS-100W 100 Watt Amplifier
EVS-125W 125 Watt Amplifier

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Fire Engineering Division

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 Control
5860 Remote Annunciator
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5895XL Power Supply
SK-NIC Network Inerface Card
SK-FML Mulit Mode Fiber Card
SK-FSL Single Mode Fiber Card
CELL-MOD Celullar Communicator in Plastic Enclosure
CELL-CAB-SK Cellular Communicator in Metal Enclosure with Lock & Key
RBB Remote Battery Box (16"WX10"HX6"D)
SK-SCK Seismic Complaince Kit
5815XL SLC Expander
6815 SLC Expander
SK-NIC-KIT

RATING: Primary Operating Power Supply:
120VAC, 60HZ, 3.25A

Secondary Operating Power Supply:
24VDC, 750 mA, 55Ah

INSTALLATION: In accordance with listee's printed installation instructions, applicable codes and ordinances and in a manner acceptable to the authority having jurisdiction.

MARKING: Listee's name, model number, electrical rating, and UL label.

APPROVAL: Listed as a commercial fire alarm control unit for use with separately listed initiating and indicating devices and for mass notication. Refer to listee’s Installation Instruction Manual for details.

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Fire Engineering Division

Addendum-001 | 03-119066
AS REVISED

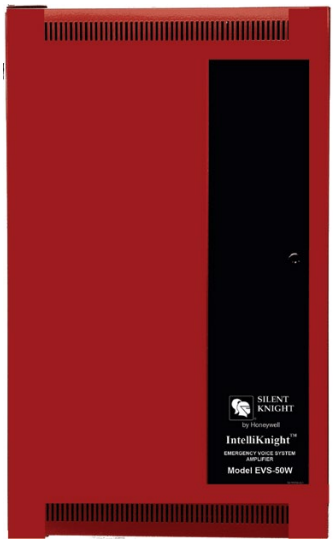
EVS-50W

Intelligent 50 Watt Amplifier

The EVS-50W is an intelligent 50 watt amplifier for use with the 5820XL-EVS or 6820EVS. The EVS-50W is used to amplify the audio message for distribution throughout the facility. Since it is designed as a self-contained distributed amplifier it can be conveniently located near the area of protection to reduce wiring demands.

Each EVS-50W is capable of producing 50-watts of audio power. Up to four EVS-50W's can be used on the voice evacuation system.

The EVS-50W has its own power supply with battery backup and four speaker circuits which can be expanded to eight speaker circuits with the optional EVS-CE4. The EVS-50W is fully supervised by the main panel for trouble conditions.



EVS-50W

INSTALLATION

The EVS-50W can be surface or flush mounted.

COMPATIBILITY

The EVS-50W is compatible with the following Honeywell Silent Knight Series FACPs:

- 6820EVS: Addressable fire alarm control panel with an emergency voice system, up to 1,110 addressable points, and four programmable buttons that can be programmed for routine or complex tasks
- 5820XL-EVS: Addressable fire alarm control panel with an emergency voice systems and up to 792 addressable points

FEATURES & BENEFITS

- Integrates directly with Silent Knight Series 6000 panels. Installation is easy as there is no need for special programming or a separate dialer capture module
- Battery backup provided by the fire alarm control panel for enhance efficiencies and cost savings
- Communicators provide dual path cellular and IP reporting capability when combined with 6000 series panels
- UL 864 and NFPA 72 code compliant for sole, primary, or backup communications
- Accounts can be easily managed through on-line management tools
- Remote mount up to 6000 feet to ensure best reception
- Includes Quality of Service (QOS) diagnostics via AlarmNet which conveys vital communicator information, including when messages are received, signal strength, and message path used
- Programmable supervision time from 1 to 60 minutes
- Provides full data reporting using Contact ID format

Addendum-001 | 03-119066
AS REVISED

EVS-50W Technical Specifications

PHYSICAL

Flush Mount Dimensions: 14.5"W x 24.75"H x 3.4"D (36.8 W x 62.9 H x 8.7 D cm)

Overall Dimensions: 16.1"W x 26.5"H x 4.1"D (40.6 W x 66.7 H x 10.5 D cm)

Color: Red

ENVIRONMENTAL

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

Humidity: 10 to 93% relative humidity (non-condensing)

ELECTRICAL

Primary AC: 120 VAC @ 60Hz

Standby Current: 85mA @ 25 Vrms; 100mA @ 70.7Vrms

Alarm Current: 525mA @ 25 rms; 580mA @ 70.7Vrm

Total Power: 50W @ 25 Vrms or 70.7Vrms

- Circuit 1-4: Rated at 50W each
- EVS-CE4 Circuits 5-8: Rated at 50W

Main ECS Panel SBUS Standby & Alarm: 10mA

Battery Charging Capacity: 7 – 35AH

Battery Size: 18AH max allowed in cabinet. Use RBB accessory cabinet for larger batteries up to 35AH per system.

Voice Integration Wiring:

Six conductor
Two voice bus
Four SBUS T

ORDERING INFORMATION

EVS-50W: Intelligent 50 Watt Amplifier

ACCESSORIES

EVS-CE4: Adds four additional audio circuits to the EVS-50W.

RBB: Remote Battery Box Accessory Cabinet. Use for backup batteries up to 35 AH.

AB55: Remote Battery Box Accessory Cabinet Use for back batteries up to 55AH and too large to fit into EVS-50W Cabinet.

AGENCY LISTINGS AND APPROVALS

UL 864 and UL 2572

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

CSFM 7165-559:0172

For a complete listing of all compliance approvals and certifications, please visit www.silentknight.com.

This document is not intended to be used for installation purposes. We try to keep our product information up-to date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice.

For Technical Support, Please call 800-446-6444.

For more information

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12 Clintonville Road
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800-328-0103

Doc 350605 | Rev D | 05/18

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CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION
OFFICE OF THE STATE FIRE MARSHAL
FIRE ENGINEERING - BUILDING MATERIALS LISTING PROGRAM

LISTING SERVICE

Addendum-001 | 03-119066
AS REVISED

LISTING No. 7165-0559:0172

CATEGORY: 7165 -- FIRE ALARM CONTROL UNIT (COMMERCIAL)

LISTEE: SILENT KNIGHT SECURITYOne Fire-Lite Place, Northford, CT 06472-1653
Contact: Megan Sisson (203) 484-6544 Fax (203) 484-7309
Email: megan.sisson@honeywell.com

DESIGN: Model 5820XL-EVS Fire Alarm Control Unit. Automatic, manual, local, remote station (PPU), central station (PPU), releasing (water deluge only) and mass notification services. Refer to listee's data sheet for additional detailed product description and operational considerations.

System components:

5820XL-EVS; Control unit
5820XL-EVSCCB; Enclosure
EVS-RCU; Remote command unit
EVS-50W, EVS-125W; Amplifiers
EVS-RVM; Remote voice module
EVS-VCM; Voice control module
EVS-SW24; Switch expander
EVS-CE4; Speaker expander module
EVS-100W
EVS-WBU

RATING: 120V, 60HZ

INSTALLATION: In accordance with listee's printed installation instructions, applicable codes and ordinances and in a manner acceptable to the authority having jurisdiction.

MARKING: Listee's name, model number, electrical rating, and UL label.

APPROVAL: Listed as commercial fire alarm control unit for use with separately listed initiating and indicating devices and for mass notication. Refer to listee's Installation Instruction Manual for details.

NOTE: For Fire Alarm Verification feature (delay of fire alarm signal), the maximum Retard/Reset/Restart period shall not exceed 30 seconds

09-25-14 jp

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Fire Engineering Division

Addendum-001 | 03-119066
AS REVISED

SK-PULL-SA / SK-PULL-DA

Intelligent Pull Stations

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. The SK-PULL-SA and SK-PULL-DA are for use with Honeywell Silent Knight Series fire control panel (FACP).

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 FACP recognizes each manual pull station by its specific address saving precious seconds in determining the location of an alarm.

SK-PULL-SA

SK-PULL-DA

INSTALLATION

The SK-PULL-SA and SK-PULL-DA can be surface mounted to an SB-I/O surface back box or semi-flush mounted on a standard single-gang with a minimum depth of 2.13”(5.40 cm) or double gang or 4” (10.61 cm) square electrical box. You can also use the optional (System Sensor® PN BG-TR) trim ring if the station is being semi-flush mounted.

FEATURES & BENEFITS

- 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 ADA requirement for 5 lbs maximum pull force to active
- Meets the Americans with Disabilities Act Accessibility Guidelines (ADAAG) controls and operating mechanisms guidelines (Section 4.1.3[13])
- Shell, door, and handle molded from durable LEXAN®
- Reliable analog communications for trouble-free operation
- Braille text on station handle
- Rotary address switches for fast installation
- Handle latches in down position and the word Activated appears, clearly indicating the station has been pulled
- UL Listed, including UL 38, Standard of Manually Actuated Signaling System
- CSFM Listed
- MEA Listed

Addendum-001 | 03-119066
AS REVISED

SK-PULL-SA / SK-PULL-DA Technical Specifications

PHYSICAL

Dimensions: 5.5" H x 4" W x 1.45" D (14 x 10.2 x 3.7cm)
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 – 32VDC
SLC Standby and Alarm Current: 350µA
Wire Gauge: Up to 12AWG (3.1 mm^2)

ENVIRONMENTAL

Operating Temperature: 32°F – 120°F (0°C – 49°C)
Humidity: 10% – 93% non-condensing

ORDERING INFORMATION

SK-Pull-SA: Single Action Pull Station
SK-Pull-DA: Dual Action Pull Station

ACCESSORIES

BG-TR: Optional trim ring.
SB-I/O: Surface backbox, indoor/outdoor.
* Unless otherwise noted, specifications apply to SK-Pull-SA and SK-Pull-DA

COMPATIBILITY

The SK-PULL-SA AND SK-PULL-DA are compatible with the following Honeywell Silent Knight fire alarm control panels:
6820: Addressable fire alarm control panel
6820EVS: Addressable fire alarm control panel with an emergency voice system.
6808: Addressable fire alarm control panel
6700: Addressable fire alarm control panel
5700: Addressable fire alarm control panel
5808: Addressable fire alarm control panel
5820XL: Addressable fire alarm control panel
5820XL-EVS: Addressable fire alarm control panel with an emergency voice system

For a complete listing of all compliance approvals and certifications, please visit www.silentknight.com.

This document is not intended to be used for installation purposes. We try to keep our product information up-to date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice.

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Doc 350135 | Rev E | 11/17

CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION
OFFICE OF THE STATE FIRE MARSHAL
FIRE ENGINEERING - BUILDING MATERIALS LISTING PROGRAM

LISTING SERVICE

Addendum-001 | 03-119066
AS REVISED

LISTING No. 7150-0559:0161

CATEGORY: 7150 -- FIRE ALARM PULL BOXES

LISTEE: SILENT KNIGHT SECURITYOne Fire-Lite Place, Northford, CT 06472-1653
Contact: Megan Sisson (203) 484-6544 Fax (203) 484-7309
Email: megan.sisson@honeywell.com

DESIGN: Models SK-PULL-SA and SK-PULL-DA single/dual action fire alarm pull boxes. Refer to listee's data sheet for detailed product description and operational considerations.

INSTALLATION: In accordance with listee's printed installation instructions, applicable codes and ordinances and in a manner acceptable to the authority having jurisdiction.

MARKING: Listee's name, model number, rating, and UL label.

APPROVAL: Listed as fire alarm pull boxes for use with separately listed compatible fire alarm control units. Refer to listee's Installation Instruction Manual for details.

* These manual pull boxes meet the requirements of UL Standard 38, 1999 Edition with California amendments.

XLF: 7150-0028:0199

04-16-09

Date Issued: **July 01, 2020** *Listing Expires* **June 30, 2021**

Authorized By: ***DAVID CASTILLO,**, M.E., F.P.E.*

Fire Engineering Division

SK-PHOTO-W SERIES

Addressable Photoelectric Smoke Detectors

Addendum-001 | 03-119066
AS REVISED

The Silent Knight® SK-PHOTO-W Series feature a modern design and expanded color options support a variety of contemporary aesthetic demands. In addition, each detector is constructed for exceptional installation and maintenance efficiency.

The SK-PHOTO-W Series intelligent plug-in smoke detectors are designed for both performance and aesthetics, and are direct replacements for the SK-PHOTO Series detectors. A new modern, sleek, contemporary design and enhanced optical sensing chamber is engineered to sense smoke produced by a wide range of combustion sources in accordance with more stringent code standards. The SK-PHOTO-W Series detector sensitivity can be programmed in the control panel software. Sensitivity is continuously monitored and reported to the panel. Point ID capability allows each detector's address to be set with rotary, decimal address switches, providing exact detector location for selective maintenance when chamber contamination reaches an unacceptable level. Dual electronic thermistors add 135°F (57°C) fixed temperature thermal sensing on the SK-PHOTO-T-W. The SK-PHOTO-R-W is a remote test capable detector for use with DNR Series duct detector housings.

FEATURES AND BENEFITS

- Designed to meet UL 1268 7th Edition
- Sleek and stylish contemporary design
- Stable communication technique with noise immunity
- Addressable by device
- Rotary, decimal addressing (Refer to the Silent Knight panel manuals for device capacity)
- Two-wire SLC connection
- LEDs blink every time the unit is polled
- 360°-field viewing angle of the visual alarm indicators (two bi-color LEDs); LEDs blink green in Normal condition and turn on steady red in Alarm
- Integral communications and built-in device-type identification
- Remote test feature from the panel
- Built-in functional test switch activated by external magnet
- Walk test with address display (an address of 121 will blink the detector LED 12-(pause)-1)
- Low standby current
- Built-in tamper-resistant feature
- Designed for direct-surface or electrical-box mounting
- Sealed against back pressure
- Plugs into separate base for ease of installation and maintenance
- Expanded color options
- SEMS screws for wiring of the separate base
- Optional remote, single-gang LED accessory
- Optional sounder, relay, and isolator bases

Honeywell
SILENT KNIGHT

INSTALLATION

The SK-PHOTO-W Series plug-in intelligent thermal detectors use a separate base to simplify installation, service, and maintenance. Installation instructions are shipped with each detector.

Mount base (all base types) on an electrical backbox which is at least 1.5" (3.81 cm) deep. For a chart of compatible junction boxes, see SK-61045.

Note: Because of the inherent supervision provided by the SLC loop, end-of-line resistors are not required. Wiring "T-taps" or branches are permitted for Style 4 (Class "B") wiring.

Note: When using relay or sounder bases, consult the SK-ISO installation sheet I56-3627 for device limitations between isolator modules and isolator bases.

OPERATION

Each SK-PHOTO-W Series detector uses one of the panel's addresses (total limit is panel dependent) on the Signaling Line Circuit (SLC). It responds to regular polls from the control panel and reports its type and the status. If it receives a test command from the panel (or a local magnet test), it stimulates its electronics and reports an alarm. It blinks its LEDs when polled and turns the LEDs on when commanded by the panel. The SK-PHOTO-W Series offers features and performance that represent the latest in smoke detector technology.

PRODUCT LINE INFORMATION

Note: "-IV" suffix indicates ivory color.

SK-PHOTO-W: White, low-profile photoelectric sensor

SK-PHOTO-T-W: White, same as SK-PHOTO-W but includes a built-in 135°F (57°C) fixed-temperature thermal device

SK-PHOTO-R-W: White, low-profile intelligent photoelectric sensor, remote test capable, for use with DNR/DNRW

B300-6: White, standard flanged low-profile mounting base

B300-6-BP: Bulk pack of B300-6, package contains 10

B300-6-IV: Ivory, standard flanged low-profile mounting base

B501-WHITE: White, standard European flangeless mounting base

B501-BL: Black, standard European flangeless mounting base

B501-IV: Ivory, standard European flangeless mounting base

B501-WHITE-BP: Bulk pack of B501-WHITE, contains 10

B200S-WH: White, Intelligent, programmable sounder base

B200S-IV: Ivory, Intelligent, programmable sounder base

B200SR-WH: White, Intelligent sounder base for retrofit applications

B200SR-IV: Ivory, Intelligent sounder base for retrofit applications

B200S-LF-WH: White, Low Frequency Intelligent, programmable sounder base

B200S-LF-IV: Ivory, Low Frequency Intelligent, programmable sounder base

B200SR-LF-WH: White, Low Frequency Intelligent sounder base for retrofit applications

B200SR-LF-IV: Ivory, Low Frequency Intelligent sounder base for retrofit applications

B224RB-WH: White, plug-in System Sensor® relay base

B224RB-IV: Ivory, plug-in System Sensor relay base

B224BI-WH: White, plug-in System Sensor isolator detector base

B224BI-IV: Ivory, plug-in System Sensor isolator detector base

ACCESSORIES

TR300: White, replacement flange for B210LP or B300-6 bases

TR300-IV: Ivory, replacement flange for B210LP or B300-6 bases

RA100Z(A): Remote 3 – 32 VDC LED annunciator, mounts to a U.S. single-gang electrical box, for use with B501 and B300-6 bases only

M02-04-00: Test magnet

M02-09-00: Test magnet with telescoping handle

CK300: White, detector color kit, pack of 10

CK300-IV: Ivory, detector color kit, pack of 10

CK300-BL: Black, detector color kit, pack of 10

SK-PHOTO-W SERIES TECHNICAL SPECIFICATIONS

Addendum-001 | 03-119066
AS REVISED

PHYSICAL/ENVIRONMENTAL

Sensitivity:

- UL Applications: 0.5% to 4.0% per foot obscuration.
- ULC Applications: 0.5% to 3.5% per foot obscuration

Size: 2.0" (5.3 cm) high; base determines diameter

- **B300-6:** 6.1" (15.6 cm) diameter
- **B501:** 4" (10.2 cm) diameter

For a complete list of detector bases, see SK-61045.

Shipping weight: 3.4 oz. (95 g)

Operating temperature range:

- SK-PHOTO-W: 32°F to 122°F (0°C to 50°C)
- SK-PHOTO-T-W: 32°F to 100°F(0°C to 38°C)
- SK-PHOTO-R-W installed in a DNR/DNRW: -4°F to 158°F (-20°C to 70°C)

UL/ULC Listed Velocity Range: 0-4000 ft/min. (1219.2 m/min.), suitable for installation in ducts

Relative humidity: 10% – 93% non-condensing

Thermal ratings: fixed-temperature set point 135°F (57°C), rate-of-rise detection 15°F (8.3°C) per minute, high temperature heat 190°F (88°C)

ELECTRICAL SPECIFICATIONS

Voltage range: 15 - 32 volts DC peak

Standby current (max. avg.): 200µA @ 24 VDC (one communication every 5 seconds with LED enabled)

Max current: 4.5 mA @ 24 VDC ("ON")

DETECTOR SPACING AND APPLICATIONS

Silent Knight recommends spacing detectors in compliance with NFPA 72. In low airflow applications with smooth ceiling, space detectors 30 feet (9.1m). For specific information regarding detector spacing, placement, and special applications refer to NFPA 72. A *System Smoke Detector Application Guide*, document A05-1003, is available at www.systemsensor.com.

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:** S6173
- **FM Approved**
- **CSFM:** 7272-0559:0512

Country of origin: Mexico

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www.silentknight.com

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Honeywell
SILENT KNIGHT

CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION
OFFICE OF THE STATE FIRE MARSHAL
FIRE ENGINEERING - BUILDING MATERIALS LISTING PROGRAM

LISTING SERVICE

Addendum-001 | 03-119066
AS REVISED

LISTING No. 7272-0559:0512

CATEGORY: 7272 -- SMOKE DETECTOR-SYSTEM TYPE-PHOTOELECTRIC

LISTEE: SILENT KNIGHT SECURITYOne Fire-Lite Place, Northford, CT 06472-1653
Contact: Megan Sisson (203) 484-6544 Fax (203) 484-7309
Email: megan.sisson@honeywell.com

DESIGN: Models IDP-PHOTO-W, IDP-PHOTO-R-W, IDP-PHOTO-T-W, SK-PHOTO-W, SK-PHOTO-R-W, and SK-PHOTO-T-W analog addressable, photoelectric smoke detectors for open area and duct installations. Models IDP-PHOTO-T-W and SK-PHOTO-T-W have complementary heat detectors. All models are similar except for population/depopulation of components on the Printed Wiring Board for the intended features. All above models may be followed by two digit Suffix indicating the color of the detector enclosure: no suffix for white, -IV for ivory, -BL for black. Refer to listee's Installation and Maintenance Instruction for additional detailed product description and operational considerations.

RATING: 24 VDC.

INSTALLATION: In accordance with listee's printed installation instructions, applicable codes and ordinances and in a manner acceptable to the authority having jurisdiction.

MARKING: Listee's name, model number, electrical rating, and UL label.

APPROVAL: Listed as photoelectric smoke detectors. Detectors are for use with separately listed System Sensor base Models *B224BI and B224RB (CSFM Listing 7300-1653:0126), *B501, *B210LP (CSFM Listing 7300-1653:0109), B200S and B200SR (CSFM Listing 7300-1653:0213), B200S-LF and B200SR-LF (CSFM Listing 7300-1653:0238), B300-6 and B300-6-IS bases (CSFM Listing 7300-1653:0109), System Sensor duct detector housings Models DNR and DNRW (CSFM listing 3240-1653:0209), and separately listed compatible fire alarm control units. Refer to manufacturer's Installation Manual for details. *All models comply with the applicable requirements in ANSI/UL 268, Smoke Detectors for Fire Alarm Systems, 7th Edition, January 11, 2016.

NOTE: The photoelectric type detectors are generally more effective at detecting slow, smoldering fires that smolder for hours before bursting into flame. Sources of these fire may include cigarettes burning in the couched or bedding. The ionization type detectors are generally more effective at detecting fast, flaming fires that consume combustible materials rapidly and spread quickly. Sources of these fires include paper burning in a waste container or a grease fire in the kitchen.

XLF: 7272-0028:0503

*Revision 12-17-19 VWW

Date Issued: **July 01, 2020** *Listing Expires* **June 30, 2021**

Authorized By: ***DAVID CASTILLO,**, M.E., F.P.E.*

Fire Engineering Division

SK-HEAT-W SERIES

Addressable Heat Detectors

Addendum-001 | 03-119066
AS REVISED

The Silent Knight® SK-HEAT-W Series heat detectors are designed for both performance and aesthetics. A new modern, sleek, contemporary design and advanced thermal technologies make the SK-HEAT-W Series ideal for both system operation and building design.

The series includes a 135°F/57°C fixed-temperature, rate-of-rise, and a 180°F/88°C fixed high-temperature detectors and are direct replacements for the SK-HEAT Series heat detectors. The point ID address, set using rotary decimal switches, provide specific detector locations. These thermal detectors provide effective, intelligent property protection in a variety of applications.

- SK-HEAT-W offers 135°F fixed thermal detection.
- SK-HEAT-ROR-W offers 135°F fixed and rate-of-rise thermal detection.
- SK-HEAT-HT-W provides fixed high-temperature detection at 190°F.

FEATURES AND BENEFITS

- Designed to meet UL 268 7th Edition
- Sleek and stylish contemporary design
- Advanced thermal technology for fast response
- Fixed temperature model (SK-HEAT-W) factory preset to 135°F (57°C)
- Rate-of-rise model (SK-HEAT-ROR-W), 15°F (8.3°C) per minute
- High temperature model (SK-HEAT-HT-W) factory preset to 190°F (88°C)
- Addressable by device
- Rotary, decimal addressing (Refer to the Silent Knight panel manuals for device capacity)
- Two-wire SLC connection
- LEDs blink every time the unit is polled
- 360°-field viewing angle of the visual alarm indicators (two bi-color LEDs); LEDs blink green in Normal condition and turn on steady red in Alarm
- Integral communications and built-in device-type identification
- Remote test feature from the panel
- Built-in functional test switch activated by external magnet
- Walk test with address display (an address of 121 will blink the detector LED 12-(pause)-1)
- Low standby current
- Built-in tamper-resistant feature
- Designed for direct-surface or electrical-box mounting
- Sealed against back pressure
- Plugs into separate base for ease of installation and maintenance
- SEMS screws for wiring of the separate base
- Optional remote, single-gang LED accessory
- Optional sounder, relay, and isolator bases
- Optional flanged surface mounting kit

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APPLICATIONS

Use thermal detectors for protection of property. For further information, refer to manual I56-6529, Applications Manual for System Smoke Detectors, which provides detailed information on detector spacing, placement, zoning, wiring, and special applications.

INSTALLATION

The SK-HEAT-W Series plug-in intelligent thermal detectors use a separate base to simplify installation, service, and maintenance. Installation instructions are shipped with each detector.

Mount base (all base types) on an electrical backbox which is at least 1.5" (3.81 cm) deep. For a chart of compatible junction boxes, see SK-61045.

Note: Because of the inherent supervision provided by the SLC loop, end-of-line resistors are not required. Wiring "T-taps" or branches are permitted for Style 4 (Class "B") wiring.

Note: When using relay or sounder bases, consult the SK-ISO installation sheet I56-3627 for device limitations between isolator modules and isolator bases.

PRODUCT LINE INFORMATION

SK-HEAT-W: White, low-profile intelligent 135°F fixed thermal sensor

SK-HEAT-ROR-W: White, low-profile intelligent rate-of-rise thermal sensor

SK-HEAT-HT-W: White, low-profile intelligent 190°F fixed thermal sensor

B300-6: White, standard flanged low-profile mounting base

B300-6-BP: Bulk pack of B300-6, package contains 10

B300-6-IV: Ivory, standard flanged low-profile mounting base

B501-WHITE: White, standard European flangeless mounting base

B501-BL: Black, standard European flangeless mounting base

B501-IV: Ivory, standard European flangeless mounting base

B501-WHITE-BP: Bulk pack of B501-WHITE, contains 10

B200S-WH: White, Intelligent, programmable sounder base

B200S-IV: Ivory, Intelligent, programmable sounder base

B200SR-WH: White, Intelligent sounder base for retrofit applications

B200SR-IV: Ivory, Intelligent sounder base for retrofit applications

B200S-LF-WH: White, Low Frequency Intelligent, programmable sounder base

B200S-LF-IV: Ivory, Low Frequency Intelligent, programmable sounder base

B200SR-LF-WH: White, Low Frequency Intelligent sounder base for retrofit applications

B200SR-LF-IV: Ivory, Low Frequency Intelligent sounder base for retrofit applications

B224RB-WH: White, plug-in System Sensor® relay base

B224RB-IV: Ivory, plug-in System Sensor relay base

B224BI-WH: White, plug-in System Sensor isolator detector base

B224BI-IV: Ivory, plug-in System Sensor isolator detector base

ACCESSORIES

TR300: White, replacement flange for B210LP or B300-6 bases

TR300-IV: Ivory, replacement flange for B210LP or B300-6 bases

RA100Z(A): Remote 3 – 32 VDC LED annunciator, mounts to a U.S. single-gang electrical box, for use with B501 and B300-6 bases only

M02-04-00: Test magnet

M02-09-00: Test magnet with telescoping handle

CK300: White, detector color kit, pack of 10

CK300-IV: Ivory, detector color kit, pack of 10

CK300-BL: Black, detector color kit, pack of 10

SK-HEAT-W SERIES TECHNICAL SPECIFICATIONS

Addendum-001 | 03-119066
AS REVISED

PHYSICAL/ENVIRONMENTAL

Size: 2.0" (5.3 cm) high; base determines diameter

- **-B300-6:** 6.1" (15.6 cm) diameter
- **-B501:** 4" (10.2 cm) diameter

For a complete list of detector bases, see SK-61045.

Operating temperature range: SK-HEAT-W, SK-HEAT-ROR-W: -4°F to 100°F (-20°C to 38°C)

SK-HEAT-HT-W: -4°F to 150°F (-20°C to 66°C)

Detector spacing: UL approved for 50 ft. (15.24 m) center to center; FM approved for 25 x 25 ft. (7.62 x 7.62 m) spacing

Relative humidity: 10% – 93% non-condensing

Thermal ratings: Fixed-temperature set point 135°F (57°C), rate-of-rise detection 15°F (8.3°C) per minute, high temperature heat 190°F (88°C)

ELECTRICAL SPECIFICATIONS

Voltage range: 15 - 32 volts DC peak

Standby current (max. avg.): 200uA @ 24 VDC (one communication every 5 seconds with LED enabled)

LED current (max.): 4.5mA @ 24 VDC ("ON")

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:** S6228
- **FM Approved**
- **CSFM:** 7270-0559:0511

Country of origin: Mexico

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CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION
OFFICE OF THE STATE FIRE MARSHAL
FIRE ENGINEERING - BUILDING MATERIALS LISTING PROGRAM

LISTING SERVICE

Addendum-001 | 03-119066
AS REVISED

LISTING No. 7270-0559:0511

CATEGORY: 7270 -- HEAT DETECTOR

LISTEE: SILENT KNIGHT SECURITYOne Fire-Lite Place, Northford, CT 06472-1653
Contact: Megan Sisson (203) 484-6544 Fax (203) 484-7309
Email: megan.sisson@honeywell.com

DESIGN: Models IDP-HEAT-W, IDP-HEAT-HT-W, SK-HEAT-W, SK-HEAT-HT-W (fixed temperature) and IDP-HEAT-ROR-W, SK-HEAT-ROR-W (fixed temperature with Rate-of-Rise) electronic heat detectors. Suffix -IV for ivory color and -BL for black color. Refer to listee's data sheet for additional detailed product description and operational considerations.

RATING: Models IDP-HEAT-W and SK-HEAT-W (fixed temperature): 135°F.
Models IDP-HEAT-HT-W and SK-HEAT-HT-W (fixed temperature): 190°F.
Models IDP-HEAT-ROR-W, SK-HEAT-ROR-W (fixed temperature with rate of rise):135°F.

INSTALLATION: In accordance with listee's printed installation instructions, applicable codes and ordinances and in a manner acceptable to the authority having jurisdiction.

MARKING: Listee's name, model number, electrical ratings, and UL label.

APPROVAL: Listed as heat detectors for use with Notifier base B710LP (CSFM#7300-0028:173); System Sensor bases B510, B210LP, B300-6, B300-6-IS (CSFM#7300-1653:0109); B224BI, B224RB (CSFM#7300-1653:0126); B200S, B200SR (CSFM#7300-1653:0213); B200S-LF, B200SR-LF (CSFM#7300-1653:238); and separately listed compatible fire alarm control units. Refer to listee's Installation Instructions Manual for details.

XLF: 7270-0028:0502

02-06-18 gt

Date Issued: **July 01, 2020** *Listing Expires* **June 30, 2021**

Authorized By: ***DAVID CASTILLO,**, M.E., F.P.E.*

Fire Engineering Division

Honeywell | SILENT KNIGHT | Addressable Devices

Addendum-001 | 03-119066
AS REVISED

SK-FIRE-CO-W

Multi-Criteria Fire/CO Detector

General Description

SK-FIRE-CO-W is a plug-in, addressable device that provides both fire and carbon monoxide (CO) detection. The detector combines four separate sensing elements to sense multiple components of a fire: smoke, CO, light/flame, and heat. This approach enables enhanced sensitivity to real fire with heightened immunity to nuisance particulates. For CO, the detector's electrochemical sensing cell creates a separate signal for life safety CO detection.

SK-FIRE-CO-W in B200S-WH sounder base

Multiple sensors and communication can greatly reduce nuisance alarms compared to single sensing methods. Sophisticated algorithms maximize the advantages of all four sensor types creating our best detection strategy offering heightened immunity to nuisance particulate and enhanced sensitivity to real fire.

- Photoelectric sensors detect airborne particles associated with smoke.
- Thermal sensors detect heat and rate-of-rise (135°F fixed temperature threshold).
- Infrared sensors discern light patterns in the environment as an additional data point for alarm determination.

This ability to reject certain nuisance alarm triggers, such as theater smoke, supports the use of the fire/CO detector in applications where moderate to heavy nuisance conditions exist that might cause single sensing detectors to false alarm.

UL models meet UL 268 7th edition and UL 521 listing requirements for fire detection and UL 2075 standard for system-connected life safety carbon monoxide detection.

Released through the incomplete burning of various fuels, CO is a colorless, odorless and deadly gas that is virtually impossible to detect with the human senses. Because the potential exists for dangerous levels of CO to accumulate in almost any building, legislation mandating the use of CO detection in commercial spaces continues to grow.

B200S series intelligent sounder bases are recommended for use with SK-FIRE-CO-W. These bases can generate either a Temp 3 pattern for fire or a Temp 4 pattern for CO alarm indication. The B200S series bases recognize the System Sensor synchronization protocol for use as a component of the general evacuation signal — along with other System Sensor Audible/Visible devices — when connected to a power supply or Fire Alarm Control Panel (FACP) output capable of generating the System Sensor synchronization pulses.

FEATURES & BENEFITS

- Detects all four major elements of a fire
- Separate CO detection signal
- Separate audible signal for fire or CO alarm when used with a B200S series base
- Highest nuisance alarm immunity
- Automatic drift compensation for smoke and CO sensors
- RealTest® CO testing capability
- New modern profile with expanded color options
- Uses only one address on the SLC loop
- UL 268 7th edition, UL 521, and UL 2075 listed
- 10-year CO cell with end-of-life warning

SK-FIRE-CO-W Technical Specifications

Addendum-001 | 03-119066
AS REVISED

PHYSICAL/OPERATING

Dimensions:

Height: 2.7" (69 mm) installed in B200S series sounder base

Diameter: 6.875" (175 mm) installed in B200S series sounder base

Weight: 3.4 oz. (95 g)

Operating Humidity Range: 15% to 90% Relative Humidity, Non-condensing

Operating Temperature Range: 32°F to 100°F (0°C to 38°C)

Air Velocity: 0 to 4000 ft./min. (0 to 1219.2 m/min.)

ELECTRICAL SPECIFICATIONS

Operating Voltage Range: 15 to 32 VDC

Operating Current @ 24 VDC: 200 uA (one communication every 5 seconds with green LED blink on communication)

Maximum Alarm Current: 2 mA @ 24 VDC (one communication every 5 seconds with red LED solid on)

Maximum Current: 4.5 mA @ 24 VDC (one communication every 5 seconds with amber LED solid on)

Isolator Load Rating: 0.0063

CO MONITORING UL STANDARD REFERENCE

Alarm thresholds (in parts per million) are as follows for:

70 ± 5ppm: Detector response time 60 – 240 min.

150 ± 5ppm: Detector response time 10 – 50 min.

400 ± 10ppm: Detector response time 4 – 15 min.

STANDARDS

Per UL standard 2075, the SK-FIRE-CO-W has have been tested to the sensitivity limits defined in UL Standard 2034.

UL Standard: UL 268 7th Edition

AGENCY LISTINGS AND APPROVALS

The listings and approvals below apply to the SK-FIRE-CO-W. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult the factory for the latest listing status.

UL: S6173

CSFM: 7272-0559:0517

ORDERING INFORMATION

SK-FIRE-CO-W: Advanced multi-criteria fire/CO detector, white

Bases

B501-WHITE: 4" Mounting base, white

B501-WHITE-BP: 4" mounting base, white, 10-pack

B501-IV: 4" Mounting base, ivory

B501-BL: 4" Mounting base, black

B300-6: 6" Flanged mounting base, white

B300-6-BP: 6" Flanged mounting base, white, 10-pack

B300-6-IV: 6" Flanged mounting base, ivory

B200S-WH: Intelligent addressable sounder base, white

B200S-IV: Intelligent addressable sounder base, ivory

B200S-LF-WH: Intelligent addressable sounder base, low-frequency, white

B200S-LF-IV: Intelligent addressable sounder base, low-frequency, ivory

B224BI-WH: Isolator base, white

B224BI-IV: Isolator base, ivory

B224RB-WH: Relay base, white

B224RB-IV: Relay base, ivory

Accessories

SMB600: Surface mounting kit (flanged)

TR300: Trim ring, white

TR300-IV: Trim ring, ivory

CK300-IR: IR color kit (includes cover and trim ring), white, 10 pack

CK300-IR-IV: IR color kit (includes cover and trim ring), ivory, 10 pack

CK300-IR-BL: IR color kit (includes cover and trim ring), black, 10 pack

RA100Z: Remote LED annunciator

M02-04-00: Detector test magnet

M02-09-00: Telescoping test magnet

This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice.

Country of origin: Mexico

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CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION
OFFICE OF THE STATE FIRE MARSHAL
FIRE ENGINEERING - BUILDING MATERIALS LISTING PROGRAM

LISTING SERVICE

Addendum-001 | 03-119066
AS REVISED

LISTING No. 7272-0559:0517

CATEGORY: 7272 -- SMOKE DETECTOR-SYSTEM TYPE-PHOTOELECTRIC

LISTEE: SILENT KNIGHT SECURITYOne Fire-Lite Place, Northford, CT 06472-1653
Contact: Megan Sisson (203) 484-6544 Fax (203) 484-7309
Email: megan.sisson@honeywell.com

DESIGN: Models IDP-FIRE-CO-W, IDP-FIRE-CO-IV, SK-FIRE-CO-W, photoelectric smoke detector with complementary heat detector, electrochemical carbon monoxide (CO) detector and supplemental infrared flame sensor, analog addressable.

Models IDP-PTIR-W, IDP-PTIR-IV, SK-PTIR-W, photoelectric smoke detector with complementary heat detector, and supplemental infrared flame sensor, analog addressable.

Model SK-PHOTO-CO-W, photoelectric smoke detector with complementary carbon monoxide (CO) detector, analog addressable.

Refer to listee's printed data sheet for additional detailed product description and operational considerations.

RATING: 24 VDC

INSTALLATION: In accordance with the listee's printed installation instructions, applicable codes and ordinances and in a manner acceptable to the authority having jurisdiction.

MARKING: Listee's name, model number, electrical rating, and UL label.

APPROVAL: Listed as photoelectric smoke detector with complementary heat detector, and supplemental infrared flame sensor for use withSystem Sensor (S911) - Models B200S, B200S-WH, B200S-IV, B200SR, B200SR-WH, B200SR-IV, (CSFM Listing 7300-1653:0213) *B200S-LF, *B200S-LF-IV, *B200S-LF-WH, B200SR-LF, B200SR-LF-WH, B200SR-LF-IV, (CSFM Listing 7300-1653:0238), B210LP, B300-6, B300-6-IV, B300-6-IS, B300-6-IS-W, B300-6-IS-IV, B501, B501-WHITE, B501-IV, B501-BL, (CSFM Listing 7300-1653:0109) B224BI, B224BI-WH, B224BI-IV, B224RB, B224RB-WH, B224RB-IV, (CSFM Listing 7300-1653:0126).
Silent Knight (S6173) - Model IDP-6AB (CSFM Listing 7300-0559:0159).
Fire-Lite (S1059) - Model B350LP (CSFM Listing 7300-0075:0192).

*Rev 08-02-19 gt

Date Issued: **July 01, 2020** *Listing Expires* **June 30, 2021**

Authorized By: ***DAVID CASTILLO,**, M.E., F.P.E.*

Fire Engineering Division

NOTIFIER®

May 1, 2004 DN-6972• I-525

Protectowire® Linear Heat Detector EPR and EPR-M Series

Section: Conventional Initiating Devices

GENERAL

The System Sensor/Protectowire Linear Heat Detector is a proprietary cable that detects heat conditions anywhere along its length. It is considered a normally-open contact device and as such can be interfaced to a Notifier intelligent addressable fire alarm control panel via monitor modules: FMM-1, FDM-1, FMM-101, and XP10-M. The sensor cable is comprised of two steel conductors individually insulated with a heat sensitive polymer. The insulated conductors are twisted together to impose a spring pressure between them, then wrapped with a protective tape and finished with an outer jacket suitable for the environment in which the detector will be installed.

Protectowire is a fixed temperature digital sensor and is therefore capable of initiating an alarm once its rated activation temperature is reached. At the rated temperature, the heat-sensitive polymer insulation yields to the pressure between conductors, permitting them to move into contact with each other, thereby initiating an alarm signal. It is not required that a specific length be heated in order to initiate an alarm, nor is system calibration necessary to compensate for changes in the installed ambient temperature. Protectowire Linear Heat Detector provides the advantages of line coverage with point sensitivity.

The Detector must be installed in continuous runs without taps or branches in accordance with locations and spacing prescribed by the approving authorities; NFPA 70 National Electrical Code, NFPA 72 National Fire Alarm Code or as determined by the local authority having jurisdiction. Except for zoning requirements (alarm source indication) the length of each run is limited, and controlled by the electrical characteristics of the control equipment to which the Detector is connected.

FEATURES

- Up to 1,000 ft. of the Protectowire Linear Heat Detector may be connected to the initiating device circuit of the addressable monitor module.
- Eight different Linear Heat Detector models available, each packaged in 500 ft. rolls.
- Fixed Temperature Digital Sensor
- Line Coverage with Point Sensitivity
- Wide Range of Industrial Applications, such as Aircraft Hangers, Manufacturing Facilities, Warehouses, Tank Farms, Coal Conveyors, Refrigerated Storage, Dust Collectors, Cooling Towers, Tunnels, and Floating Roof Tanks.
- Good Abrasion Resistance
- Excellent Weathering Properties and High Temperature Performance.
- A comprehensive range of mounting and installation accessories are available.

UL LISTED S480

c UL LISTED

FM APPROVED

California State Fire Marshal 7270-0854:101

EPR Series

The EPR series contains an extruded flame retardant jacket of polypropylene elastomer with a special UV stabilizer added to enhance weathering performance. It is intended for a wide range of industrial applications and is characterized by high resiliency, good abrasion resistance, excellent weathering properties and exceptional high temperature performance. Messenger wire is also available for any model detector. It consists of high tensile strength stainless steel wire, which is wound around the detector. It is a support wire, which is designed to simplify the installation of the detector in areas where mounting is difficult due to the lack of appropriate support structures or mounting surfaces.

EPR-M Messenger wire Series

Messenger wire (a Protectowire exclusive), is available with any of the four EPR models offered from Notifier. It consists of high tensile strength stainless steel wire, which is wound around the Detector at the rate of approximately one turn per foot (.3 m). It is a carrier or support wire which is designed to simplify the installation of the Detector in areas where mounting is dif ficult due to the lack of appropriate support structures or mount ing surfaces. When using messenger wire to support the Detector, turnbuckles and eyebolts must be employed at each end of a straight run to place tension on the support wire.

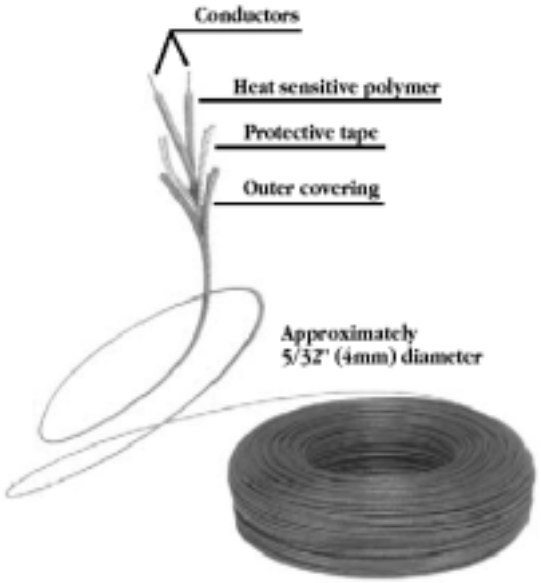
NOTIFIER® 12 Clintonville Road, Northford, Connecticut 06472

ISO 9001 CERTIFIED ENGINEERING & MANUFACTURING QUALITY SYSTEMS

Linear Heat Detectors

Models*	Temperature Rating
PHSC-155-EPR	155ºF (68ºC) Alarm Temperature
PHSC-155-EPR-M	156-EPR with Messenger Wire
PHSC-190-EPR	190ºF (88ºC) Alarm Temperature
PHSC-190-EPR-M	190-EPR with Messenger Wire
PHSC-280-EPR	280ºF (138ºC) Alarm Temperature
PHSC-280-EPR-M	280-EPR with Messenger Wire
PHSC-356-EPR**	356ºF (180ºC) Alarm Temperature
PHSC-356-EPR-M**	356-EPR with Messenger Wire

*Available in 500 ft. lengths only.
**Maximum Ambient Temperature of 250ºF (121ºC)



Approvals/Maximum Listed Spacing

Type EPR Linear Heat Detector
UL (25 ft/7.6m)
FM (25 ft./7.6m)

The distance between detector runs shall not exceed the listed spacing. Reduced spacing may be required based upon factors such as ceiling height and construction, physical obstructions, air movement, or the authority having jur isdiction (AHJ). When Protectowire is used for sprinkler system activation, special Factory Mutual (FM) reduced spacing guidelines may also be applicable.

CHEMICAL RESISTANCE CHART FOR PROTECTOWIRE® TYPE EPR JACKET MATERIAL

Ratings-Chemical Effect:
A - Little or no effect. (< 20% Volume Swell)
B - Minor effect. (20-40% Volume Swell)
C - Moderate effect. (40-60% Volume Swell)
D - Severe effect - Not recommended (>60% Volume Swell)
(Immersion times were approximately 168 hours per ASTM D-471 at 23°C or as stated.)

Fluids

Chemicals	Rating
Acetic Acid 50%	A
Sulfuric Acid 98%	A
Hydrochloric Acid 10%	A
Potassium Hydroxide 10%	A
Sodium Hydroxide 50%	A
Zinc Chloride 10%	A
Water @ 100°C	A
Water (Chlorine 4ppm)	A
Water (Chloramines 4ppm)	A
Sea Water	A
Sodium Chloride 15%	A
Acetone	A
Acrylonitrile	A
Aniline	A
n-Butyl Acetate	A
Ethanol	A
Diethylether	A
Glycerol	A
n-Hexane	A
Methanol	A
Methylethylketone	A
Nitrobenzene	A
1- Propanol	A

Petroleum Oils & Fuels	Rating
Oil ASTM #1 @ 100°C	A
Oil ASTM #2 @ 100°C	A
Oil ASTM #3 @ 100°C	B
Fuel B (Isooctane/Toluene, 70/30)	B
Fuel C (Isooctane/Toluene, 50/50)	B

Automotive Fluids	Rating
Hydraulic Brake Fluid	A
Hydraulic Brake Fluid @ 100°C	A
Ethylene Glycol (Antifreeze/water 50/50) @ 125°C	A

Important Installation Information. Please Read!

Protectowire Linear Heat Detector may be installed at the ceiling level to protect areas within buildings (area protection) in the same fashion as the more familiar spot type heat detectors. Please refer to the National Fire Alarm Code, NFPA 72, for basic information on the installation and spacing of linear heat detectors for area protection. For special applications where the Detector is installed close to the hazard, the manufacturer's recommendations and/or installation instructions should be followed. Whenever there is a choice between two or more possible installation procedures, the one which results in increased protection should be utilized.

For additional installation information on Protectowire Linear Heat Detectors please refer to the Installation/Operation/ Maintenance Manual (MAN 2001E-0603) and the Important Installation Information document (DS-7736) on www.Protectowire.com.

Protectowire Accessories

System Sensor offers an assortment of approved Protectowire fasteners and splicing devices to facilitate installation for both standard and special applications. Protectowire approved fasteners are generally designed to lightly clamp the detector which enables a tension to be applied progressively. This method is better than arrangements which apply a high tensile load at the end of each run or clamp and compress the sensor cable so tightly that the inner insulation becomes damaged. To ensure a trouble-free installation, ***only Protectowire approved fasteners should be used. The use of non-approved fasteners may physically damage the detector thereby causing "false alarms" and in some cases void the detector's warranty.***

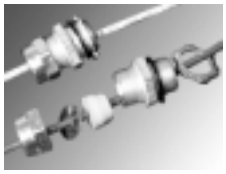
Accessories

Commercial Type Zone/End-of-Line Junction Box

Model	Description
ZB-4-QC-MP	Non-metallic Moisture proof Box with Compression terminals.
SR-502	Strain Relief Connector

Heavy Duty Type Zone/End-of-Line Junction Box

Model	Description
ZB-HD-4-QC	Fiberglass enclosure with compression terminals (NEMA 4x).



Splicing Connectors and Termination Assemblies

Flexible Leads

Model	Description
PFL	Used when terminating 2 conductor Protectowire Linear Heat Detector in constrained spaces such as pull station or smoke detector back boxes

Splicing Connector

Model	Description
PWSC	Used when splicing standard 2 conductor Protectowire Linear Heat Detector.

Splicing Tape/Sealant Tape

Model	Description
#35-White	Used to protect all splices of Protectowire Linear Heat Detector after sealing against moisture using SFTS-1-8-F Sealant Tape.
33+	Used to protect all splices of Protectowire Linear Heat Detector after sealing against moisture using SFTS-1-8-F Sealant Tape in cold environments as low as 0ºF (–18ºC).
SFTS-1-8-F	Used to seal all splices of Protectowire Linear Heat Detector against moisture.

General Purpose Fasteners

Clips

Model	Description
WAW-P	WAW Clips may be used for ceiling or wall mount applications, as well as at corners. Available in a polypropylene material.
OHS -1	Line Clip is used mainly as an intermediate fastener between corner mounted WAW clips which provide the main support.
OHS -SS	Stainless steel line clip with 1/4 inch hole. Used mainly as an intermediate fastener between corner mounted WAW clips which provide the main support.

Insulated Standoff

Model	Description
TR-5G	The Insulated Standoff can be used to install Protectowire on or above conveyors or from other applicable mechanical structures.

Cable Ties for Cable Mount

Model	Description
PLT1S-CO	Used with EMS Cable Mounts, constructed of weather resistant nylon suitable for outdoor use.

Beam Clamp Assemblies

Model	Description
BC-2	The BC-2 Series Beam Clamp Assembly, consists of a beam clamp, WAW clip and snap button. BC-2 utilizes a plated steel clamp and is recommended for general indoor use. This fastener may be used for mounting Protectowire on cable trays, conveyors, angle irons, I-beams, bar joists.
BC-3P	The BC-3P consists of a beam clamp, a Polypropylene WAW clip (type P) and snap button. These fasteners are suitable for outdoor use. This fastener may be used for mounting Protectowire on cable trays, conveyors, angle irons, I-beams, bar joists.

Adhesive Cable Mount/"L" Bracket

Model	Description
EMS-A-CO	Adhesive mounting system consists of EMS cable mounts, PLT cable ties and approved industrial adhesive. Constructed of black weather resistant nylon and suitable for outdoor use when used with approved adhesive.
RMC-2	Plated steel brackets used for mounting Protectowire to the rim seals on floating roof tanks.
RMC-3	Stainless steel brackets used for mounting Protectowire to the rim seals on floating roof tanks.

Cable Tray Application Fasteners

Cable Tray Clip

Model	Description
CC-2N	Will clamp to material from .06 to .16 of an inch thick and is designed to attach to the cable tray side rails and secure the Protectowire in the recommended sine wave pattern.
CC-2W	Will clamp to material ranging from .16 to .25 of an inch thick and is designed to attach to the cable tray side rails and secure the Protectowire in the recommended sine wave pattern.
CC-10N-S	The CC-10 Series Clips, are particularly useful in applications where excessive vibration may be encountered. CC-10N-S will clamp to material from .06 to .16 of an inch thick.
CC-10W-S	Are particularly useful in applications where excessive vibration may be encountered. CC-10W-S clamps to material ranging from .16 to .25 of an inch thick.

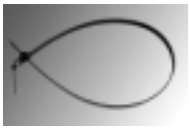
Spring Clip

Model	Description
HPC-2	The HPC-2 contains gripping teeth that will accommodate mounting sur faces such as cable trays, storage racks, and ceiling joists.

Pipe Mounting Application Fasteners

Pipe Straps

Model	Description
PM-3A	These double loop straps suitable for 3/4. to 2. pipe are made of black weather resistant nylon and may be used in temperatures ranging from –40ºF (-40ºC) to 185ºF (85ºC).
PM-3B	These double loop straps suitable for 2.5. to 3.5. pipe are made of black weather resistant nylon and may be used in temperatures ranging from –40ºF (–40ºC) to 185ºF (85ºC).
PM-3C	These 2 single loop straps suitable for 4. to 6. are made of black weather resistant nylon and may be used in temperatures ranging from –40ºF (–40ºC) to 185ºF (85ºC).



Messenger Wire Applications

Eyebolt

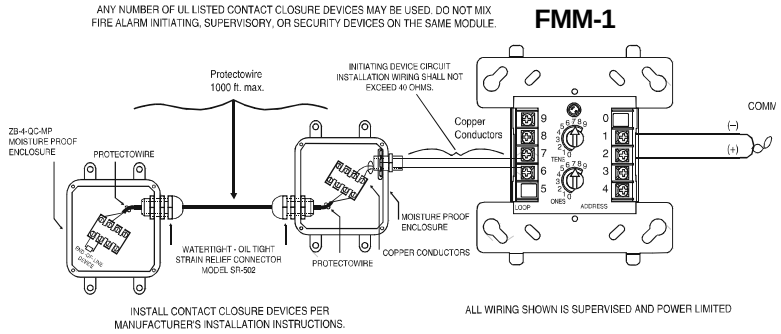
Model	Description
TR-4A	Used to attach one end of messenger wire to supporting structure. TR-4A is steel construction. TR-4A-S Stainless steel construction used to attach and tension one end of messenger wire to supporting structure.

Turnbuckle

Model	Description
TR-24	Used to attach and tension one end of messenger wire supporting structure.
TR-24-S	Stainless steel construction used to attach and tension one end of messenger wire to supporting structure.

Typical Class B Protectowire installation using FMM-1 Monitor Module:

ANY NUMBER OF UL LISTED CONTACT CLOSURE DEVICES MAY BE USED. DO NOT MIX FIRE ALARM INITIATING, SUPERVISORY, OR SECURITY DEVICES ON THE SAME MODULE.



Reference Documention

Install, Operation, and Maintenance Manual

MAN 2001E-0603

(Found on on www.protectowire.com)

CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION
OFFICE OF THE STATE FIRE MARSHAL
FIRE ENGINEERING - BUILDING MATERIALS LISTING PROGRAM

LISTING SERVICE

Addendum-001 | 03-119066

LISTING No. 7270-0854:0101 **AS REVISED**

CATEGORY: 7270 -- HEAT DETECTOR

LISTEE: Protectowire60 Washington Street, Pembroke, MA 02359
Contact: Jim Goggin (781) 826-3878 Fax (781) 826-2045
Email: jgoggin@protectowire.com

DESIGN: Models PHSC and PLR heat detector cables consisting of two conductors insulated from each other by a thermo-responsive plastic. Model PHSC is followed by a rating and suffix: EPC, EPR, TRI, XCR, or XLT. Model PLR is followed by a rating and with or without suffix R, X, or *CR. Refer to listee's data sheet for detailed product description and operational considerations.

RATING: PHSC: 135°F, 155°F, 190°F, 220°F, 280°F, 356°F
PLR: 140°F, 155°F, 190°F, 220°F, 280°F, 356°F, *500°F (CR only)

INSTALLATION: In accordance with listee's printed installation instructions, applicable codes and ordinances, and in a manner acceptable to the authority having jurisdiction.

MARKING: Listee's name, product designation, and UL and/or FM label.

APPROVAL: Listed as heat sensitive/detector cables for use with separately listed compatible fire alarm control units. Not intended for plenum use.

NOTE: Formerly 7270-0030:005

*Revision 06-12-20 VWW

Date Issued: **July 01, 2020** *Listing Expires* **June 30, 2021**

Authorized By: ***DAVID CASTILLO,**, M.E., F.P.E.*

Fire Engineering Division

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 (¼, ½, 1 and 2 watts)
- Seakers offer high fidelity and high volume sound output
- Compatible with System Sensor synchronization protocol
- Electrical compatibility with existing SpectrAlert and SpectrAlert Advance products
- Tamper-resistant construction
- Updated modern aesthetics

Agency Listings

SIGNALING UL LISTED
S4048

FM APPROVED
FM approved except for ALERT models
3057493

7320-1653:0505

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 × 4 × 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.

Addendum-001 | 03-119066
AS REVISED

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. Wall-mount speaker strobes shall have field-selectable candela settings including 15, 30, 75, 95, 110, 135, 185.

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, Wall-Mount	**Length**	**Width**	**Depth**
SPL Speaker	6.5 in, 165 mm	5 in, 127 mm	.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 (including lens and speaker)	6.5 in, 165 mm	5.0 in, 127 mm	2.3 in, 58 mm
With Surface Mount Back Box	6.6 in, 168 mm	5.1 in, 130 mm	4.5 in, 116 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 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 33V (24 V nominal)		
Operating Voltage with MDL3 Sync Module	8.5 to 17.5 V (12 V nominal) or 16.5 to 33V (24 V nominal)		
Frequency Range	400 to 4000 Hz		
Power	¼, ½, 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

Addendum-001 | 03-119066
AS REVISED

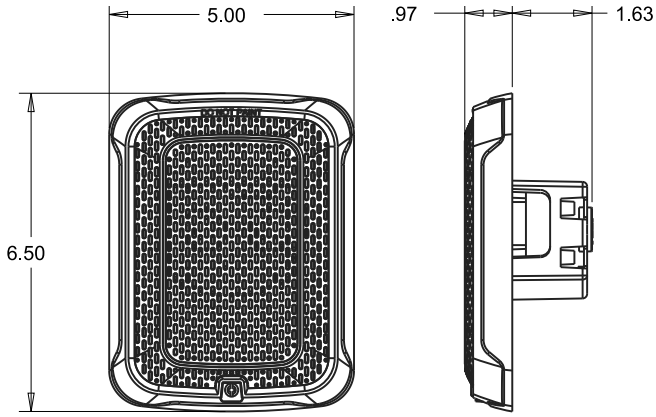
UL Current Draw Data

UL Max Strobe Current Draw (mA RMS)			
	8 to 17.5 Volts	16 to 33 Volts	
Candela	DC	DC	FWR
15	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

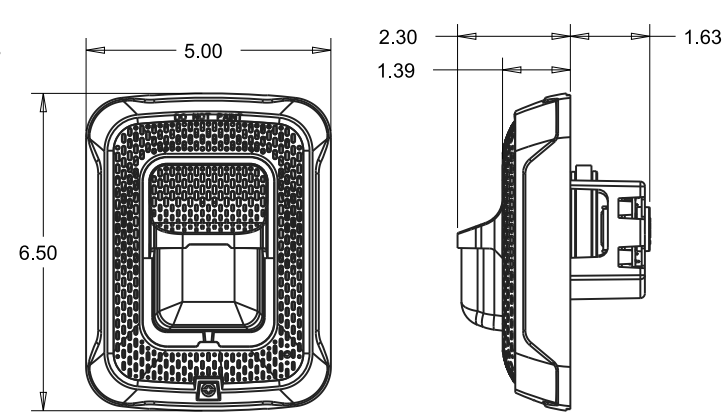
Sound Output Speaker Strobe				
	¼ W	½ W	1 W	2 W
UL Reverberant (dBA @10 ft)	77	80	83	86
UL Anechoic (dBA @10 ft)	77	80	83	86

Sound Output Speaker				
	¼ 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



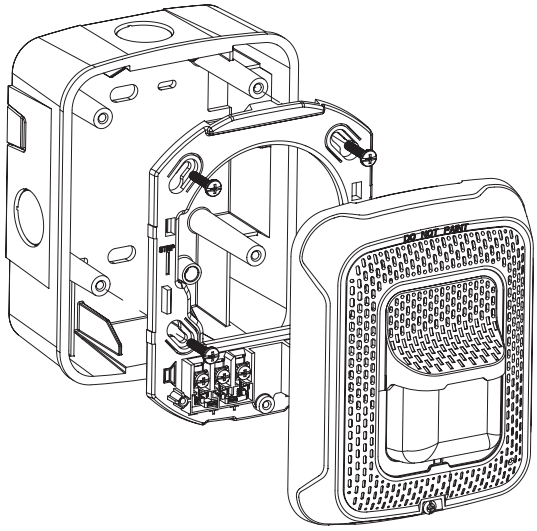
Wall-Mount Speaker



Wall-Mount Speaker Strobe

Addendum-001 | 03-119066
AS REVISED

Surface Mounting



Wall-Mount Speaker Strobe with SBBSPL 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)

SYSTEM SENSOR®
3825 Ohio Avenue • St. Charles, IL 60174
Phone: 800-SENSOR2 • Fax: 630-377-6495
www.systemsensor.com

AVDS86701 • 03/17

CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION
OFFICE OF THE STATE FIRE MARSHAL
FIRE ENGINEERING - BUILDING MATERIALS LISTING PROGRAM

LISTING SERVICE

Addendum-001 | 03-119066
AS REVISED

LISTING No. 7320-1653:0505

CATEGORY: 7320 -- SPEAKERS

LISTEE: System Sensor, Unincorporated Div of Honeywell Int'l Inc.3825 Ohio Ave, St. Charles, IL 60174
Contact: Megan Sisson (203) 484-6544 Fax (203) 484-7309
Email: megan.sisson@honeywell.com

DESIGN: System Sensor Indoor Models:
SPRL and SPWL Wall Speakers;
SPCRL and SPCWL Ceiling Speakers;
SPSRL, SPSWL, SPSRL-P, SPSRL-SP, SPSWL-P, SPSWL-ALERT and SPSWL-CLR-ALERT Wall Speaker Stobes;
SPSCRL, SPSCWL, SPSCWL-P, SPSCWL-SP and SPSCWL-CLR-ALERT Ceiling Speaker Strobes.

Wall Bezel Parts:
BZSPR-P, BZSPR-AL, BZSPR-EV, BZSPR-AG, BZSPR-PG, BZSPR-F and BZSPR-SP, BZSPW-P, BZSPW-AL, BZSPW-EV, BZSPW-AG, BZSPW-PG, BZSPW-F and BZSPW-SP,

Ceiling Bezel Parts:
BZSPRC-P, BZSPRC-AL, BZSPRC-EV, BZSPRC-AG, BZSPRC-PG, BZSPRC-F and BZSPRC-SP,
BZSPWC-P, BZSPWC-AL, BZSPWC-EV, BZSPWC-AG, BZSPWC-PG, BZSPWC-F and BZSPWC-SP,

WallTrim Rings for Speaker Strobes:
TR2 and TR2W

CeilingTrim Rings for Speaker Strobes:
TRC2 and TRC2W.

Wall Surface Mounted Back Boxes:
SBBSPRL and SBBSPWL,

Ceiling Surface Mounted Back Boxes:
SBBCRL and SBBCWL

Refer to listee's data sheet for detailed product description and operational considerations.

02-27-17 gt

Date Issued: **July 01, 2020** *Listing Expires* **June 30, 2021**

Authorized By: ***DAVID CASTILLO,**, M.E., F.P.E.*

Fire Engineering Division

Addendum-001 | 03-119066
AS REVISED

RATING: 25 or 70.7 VAC, 1/4, 1/2, 1, 2 Watt outputs.
Regulated 12 VDC and 24 VDC/FWR is for 2-wire strobe portion.

INSTALLATION: In accordance with listee's printed installation instructions, NFPA 72, applicable codes & ordinances and in a manner acceptable to the authority having jurisdiction.

MARKING: Listee's name, model number, electrical rating, and UL label.

APPROVAL: Listed as speakers and speaker-strobes when used with separately listed compatible fire alarm control units. Suitable for indoor use, dry and damp environments. *Listed with software code, S05-0048-001 for low temperature compensation. Authority having jurisdiction should be consulted prior to installation. Refer to listee's Installation Instruction Manual for details.

02-27-17 gt

Date Issued: **July 01, 2020** *Listing Expires* **June 30, 2021**

Authorized By: ***DAVID CASTILLO,**, M.E., F.P.E.*

Fire Engineering Division

Indoor Selectable-Output 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 (¼, ½, 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

SIGNALING UL LISTED
S4048

FM APPROVED
FM approved except for ALERT models
3057493

7320-1653:0505

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 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 × 4 × 2⅛ 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 × 2 1/8-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 4 11/16 × 4 11/16 × 2 1/8-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

*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 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	¼, ½, 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.

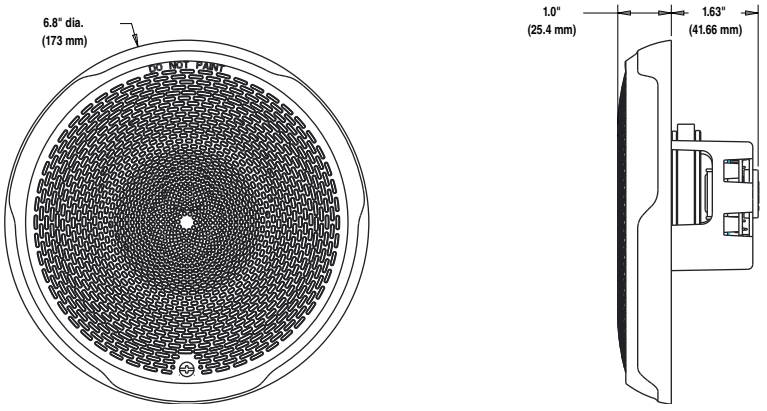
UL Current Draw Data

UL Max. Strobe 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

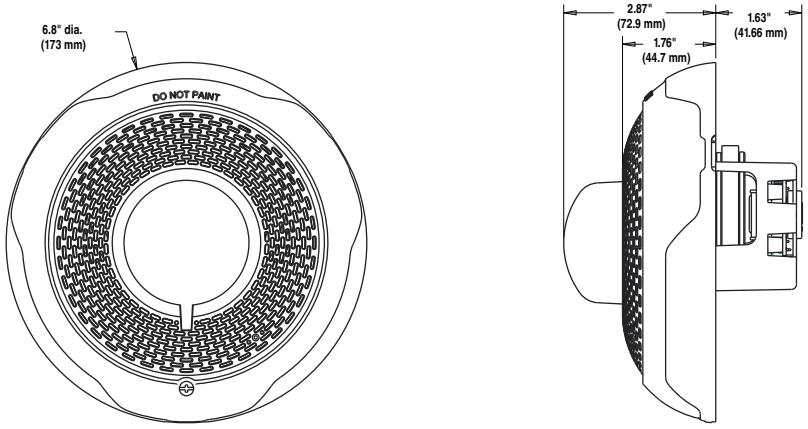
Ceiling-Mount Speaker Strobe Sound Output		
Setting	UL Reverberant (dBA @10 ft)	UL Anechoic (dBA @10 ft)
1/4 W	77	77
1/2 W	80	80
1 W	83	83
2 W	86	86

L-Series Dimensions



A0543-00

Ceiling Speaker

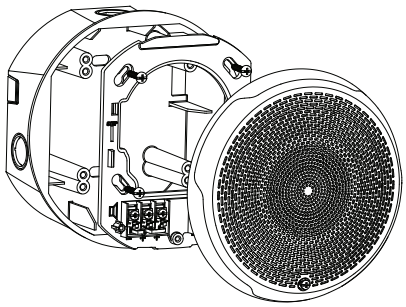


A0544-00

Ceiling Speaker Strobe

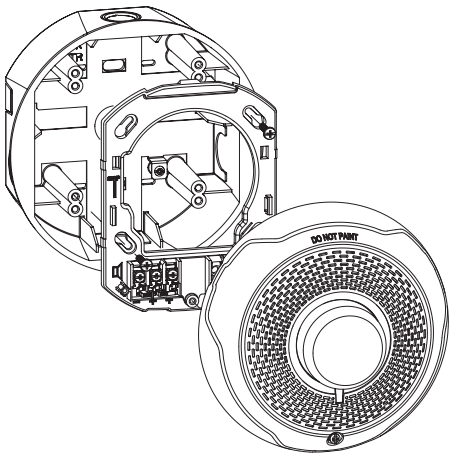
Addendum-001 | 03-119066
AS REVISED

Surface Mounting



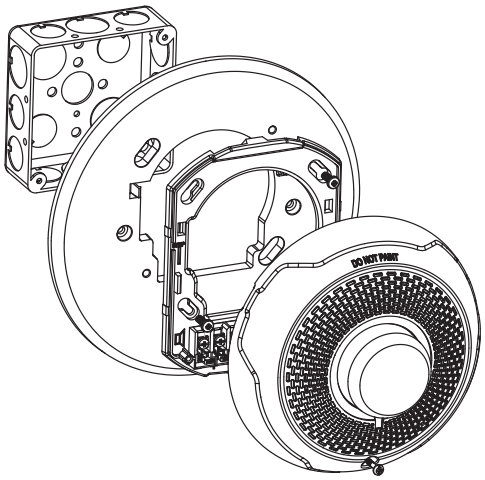
A0504-01

Ceiling Speaker with Surface Mount Back Box



A0520-01

Ceiling Speaker Strobe with Surface Mount Back Box



A0542-00

Ceiling Speaker Strobe with Trim Ring and 4" Square Electrical Box

L-Series Ordering Information

Ceiling Mount		
White	**Red**	**Description**
SPCWL	SPCRL	Speaker only
SPSCWL	SPSCRL	Speaker Strobe
SPSCWL-P	—	Plain, Speaker Strobe
SPSCWL-SP	—	Fuego, Speaker Strobe
SPSCWL-CLR-ALERT	—	Alert, Speaker Strobe, Clear Lens

Accessories		
White	**Red**	**Description**
SBBCWL	SBBCRL	Universal Ceiling Surface Mount Back Box
TRC-2W	TRC-2	Universal Ceiling Trim Ring

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Phone: 800-SENSOR2 • Fax: 630-377-6495
www.systemsensor.com

AVDS866-03 • 03/23/2018

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FIRE ENGINEERING - BUILDING MATERIALS LISTING PROGRAM

LISTING SERVICE

Addendum-001 | 03-119066
AS REVISED

LISTING No. 7320-1653:0505

CATEGORY: 7320 -- SPEAKERS

LISTEE: System Sensor, Unincorporated Div of Honeywell Int'l Inc.3825 Ohio Ave, St. Charles, IL 60174
Contact: Megan Sisson (203) 484-6544 Fax (203) 484-7309
Email: megan.sisson@honeywell.com

DESIGN: System Sensor Indoor Models:
SPRL and SPWL Wall Speakers;
SPCRL and SPCWL Ceiling Speakers;
SPSRL, SPSWL, SPSRL-P, SPSRL-SP, SPSWL-P, SPSWL-ALERT and SPSWL-CLR-ALERT Wall Speaker Stobes;
SPSCRL, SPSCWL, SPSCWL-P, SPSCWL-SP and SPSCWL-CLR-ALERT Ceiling Speaker Strobes.

Wall Bezel Parts:
BZSPR-P, BZSPR-AL, BZSPR-EV, BZSPR-AG, BZSPR-PG, BZSPR-F and BZSPR-SP, BZSPW-P, BZSPW-AL, BZSPW-EV, BZSPW-AG, BZSPW-PG, BZSPW-F and BZSPW-SP,

Ceiling Bezel Parts:
BZSPRC-P, BZSPRC-AL, BZSPRC-EV, BZSPRC-AG, BZSPRC-PG, BZSPRC-F and BZSPRC-SP,
BZSPWC-P, BZSPWC-AL, BZSPWC-EV, BZSPWC-AG, BZSPWC-PG, BZSPWC-F and BZSPWC-SP,

WallTrim Rings for Speaker Strobes:
TR2 and TR2W

CeilingTrim Rings for Speaker Strobes:
TRC2 and TRC2W.

Wall Surface Mounted Back Boxes:
SBBSPRL and SBBSPWL,

Ceiling Surface Mounted Back Boxes:
SBBCRL and SBBCWL

Refer to listee's data sheet for detailed product description and operational considerations.

02-27-17 gt

Date Issued: **July 01, 2020** *Listing Expires* **June 30, 2021**

Authorized By: ***DAVID CASTILLO,**, M.E., F.P.E.*

Fire Engineering Division

Addendum-001 | 03-119066
AS REVISED

RATING: 25 or 70.7 VAC, 1/4, 1/2, 1, 2 Watt outputs.
Regulated 12 VDC and 24 VDC/FWR is for 2-wire strobe portion.

INSTALLATION: In accordance with listee's printed installation instructions, NFPA 72, applicable codes & ordinances and in a manner acceptable to the authority having jurisdiction.

MARKING: Listee's name, model number, electrical rating, and UL label.

APPROVAL: Listed as speakers and speaker-strobes when used with separately listed compatible fire alarm control units. Suitable for indoor use, dry and damp environments. *Listed with software code, S05-0048-001 for low temperature compensation. Authority having jurisdiction should be consulted prior to installation. Refer to listee's Installation Instruction Manual for details.

02-27-17 gt

Date Issued: **July 01, 2020** *Listing Expires* **June 30, 2021**

Authorized By: ***DAVID CASTILLO,**, M.E., F.P.E.*

Fire Engineering Division

Addendum-001 | 03-119066
AS REVISED

Indoor Selectable-Output Horns, Strobes, and Horn Strobes for Wall Applications

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

Features

- Updated Modern Aesthetics
- Small profile devices for Horns and Horn Strobes
- Plug-in design with minimal intrusion into the back box
- Tamper-resistant construction
- Automatic selection of 12- or 24-volt operation at 15 and 30 candela
- Field-selectable candela settings on wall units: 15, 30, 75, 95, 110, 135, and 185
- Horn rated at 88+ dBA at 16 volts
- Rotary switch for horn tone and two volume selections
- Mounting plate for all standard and all compact wall units
- Mounting plate shorting spring checks wiring continuity before device installation
- Electrically compatible with legacy SpectrAlert and SpectrAlert Advance devices
- Compatible with MDL3 sync module
- Strobes and Horn Strobes listed for wall mounting only
- Horns listed for wall or ceiling use

Agency Listings

SIGNALING UL LISTED
S5512
S4011

FM APPROVED
FM approved except for ALERT models 3057383, 3057072

7125-1653:0504
7135-1653:0503

The System Sensor L-Series offers the most versatile and easy-to-use line of horns, strobes, and horn strobes in the industry with lower current draws and modern aesthetics. With white and red plastic housings, standard and compact devices, and plain, FIRE, and FUEGO-printed devices, System Sensor L-Series can meet virtually any application requirement.

The L-Series line of wall-mount horns, strobes, and horn strobes include a variety of features that increase their application versatility while simplifying 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.

To further simplify installation and protect devices from construction damage, the L-Series utilizes a universal mounting plate for all models with an onboard shorting spring, so installers can test wiring continuity before the device is installed.

Installers can also easily adapt devices to a suit a wide range of application requirements using field-selectable candela settings, automatic selection of 12- or 24-volt operation, and a rotary switch for horn tones with two volume selections.

L-Series Specifications

Architect/Engineer Specifications

General

L-Series standard horns, strobes, and horn strobes shall mount to a standard 2 x 4 x 1 7/8-inch back box, 4 × 4 × 1½-inch back box, 4-inch octagon back box, or double-gang back box. L-Series compact products shall mount to a single-gang 2 × 4 × 1 7/8-inch back box. A universal mounting plate shall be used for mounting ceiling and wall products for all standard models and a separate universal mounting plate shall be used for mounting wall compact models. The notification appliance circuit wiring shall terminate at the universal mounting plate. Also, L-Series products, 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 and 120 degrees Fahrenheit from a regulated DC or full-wave rectified unfiltered power supply. Strobes and horn strobes shall have field-selectable candela settings including 15, 30, 75, 95, 110, 135, and 185.

Strobe

The strobe shall be a System Sensor L-Series Model _____ listed to UL 1971 and shall be approved for fire protective service. The strobe shall be wired as a primary-signaling notification appliance and comply with the Americans with Disabilities Act 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.

Horn Strobe Combination

The horn strobe shall be a System Sensor L-Series Model _____ listed to UL 1971 and UL 464 and shall be approved for fire protective service. The horn strobe shall be wired as a primary-signaling notification appliance and comply with the Americans with Disabilities Act 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. The horn shall have two audibility options and an option to switch between a temporal three pattern and a non-temporal (continuous) pattern. These options are set by a multiple position switch. The horn on horn strobe models shall operate on a coded or non-coded power supply.

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 and horns at temporal three. Also, while operating the strobes, the module shall silence the horns on horn strobe models over a single pair of wires. The module shall mount to a 4 11/16 × 4 11/16 × 2 1/8-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/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	Regulated 12 DC or regulated 24 DC/FWR[1]
Operating Voltage Range[2]	8 to 17.5 V (12 V nominal) or 16 to 33 V (24 V nominal)
Operating Voltage Range MDL3 Sync Module	8.5 to 17.5 V (12 V nominal) or 16.5 to 33 V (24 V nominal)
Input Terminal Wire Gauge	12 to 18 AWG
Wall-Mount Dimensions (including lens)	5.6˝L × 4.7˝W × 1.91˝D (143 mm L × 119 mm W × 49 mm D)
Compact Wall-Mount Dimensions (including lens)	5.26" L x 3.46" W x 1.91" D (133 mm L x 88 mm W x 49 mm D)
Horn Dimensions	5.6˝L × 4.7˝W × 1.25˝D (143 mm L × 119 mm W × 32 mm D)
Compact Horn Dimensions	5.25" L x 3.45" W x 1.25" D (133 mm L x 88 mm W x 32 mm D)

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 cd and 30 cd.

Addendum-001 | 03-119066
AS REVISED

UL Current Draw Data

UL Max. Strobe Current Draw (mA RMS)

		8–17.5 Volts	16–33 Volts	
	Candela	DC	DC	FWR
Candela Range	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

UL Max. Horn Current Draw (mA RMS)

		8–17.5 Volts	16–33 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 Max. Current Draw (mA RMS), Wall Horn Strobe, Candela Range (15–185 cd)

	8–17.5 Volts		16–33 Volts						
DC Input	15cd	30cd	15cd	30cd	75cd	95cd	110cd	135cd	185cd
Temporal High	98	158	54	74	121	142	162	196	245
Temporal Low	93	154	44	65	111	133	157	184	235
Non-Temporal High	106	166	73	94	139	160	182	211	262
Non-Temportal Low	93	156	51	71	119	139	162	190	239
3.1K Temporal High	93	156	53	73	119	140	164	190	242
3.1K Temporal Low	91	154	45	66	112	133	160	185	235
3.1K Non-Temporal High	99	162	69	90	135	157	175	208	261
3.1K Non-Temporal Low	93	156	52	72	119	138	162	192	242
	16–33 Volts								
FWR Input	15cd	30cd	75cd	95cd	110cd	135cd	185cd		
Temporal High	83	107	156	177	198	234	287		
Temporal Low	68	91	145	165	185	223	271		
Non-Temporal High	111	135	185	207	230	264	316		
Non-Temportal Low	79	104	157	175	197	235	283		
3.1K Temporal High	81	105	155	177	196	234	284		
3.1K Temporal Low	68	90	145	166	186	222	276		
3.1K Non-Temporal High	104	131	177	204	230	264	326		
3.1K Non-Temporal Low	77	102	156	177	199	234	291		

Horn Tones and Sound Output Data

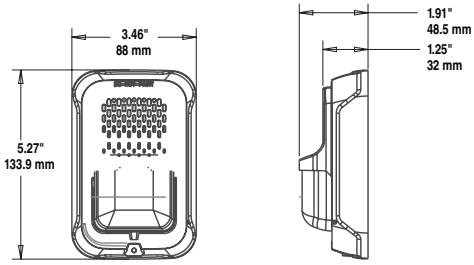
Horn and Horn Strobe Output (dBA)

			8–17.5 Volts	16–33 Volts	
Switch Position	Sound Pattern	dB	DC	DC	FWR
1	Temporal	High	84	89	89
2	Temporal	Low	75	83	83
3	Non-Temporal	High	85	90	90
4	Non-Temporal	Low	76	84	84
5	3.1 KHz Temporal	High	83	88	88
6	3.1 KHz Temporal	Low	76	82	82
7	3.1 KHz Non-Temporal	High	84	89	89
8	3.1 KHz Non-Temporal	Low	77	83	83
9*	Coded	High	85	90	90
10*	3.1 KHz Coded	High	84	89	89

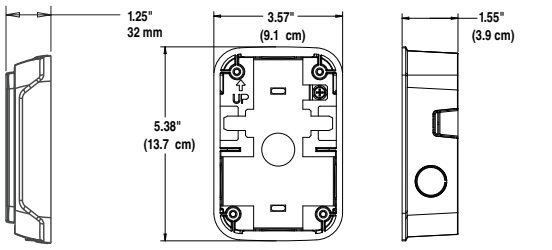
* Settings 9 and 10 are not available on 2-wire horn strobes. Temporal coding must be provided by the NAC. If the NAC voltage is held constant, the horn output remains constantly on.

Addendum-001 | 03-119066
AS REVISED

L-Series Dimensions

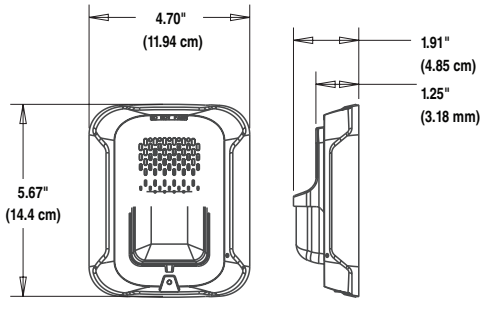


Compact Strobe, Horn Strobe

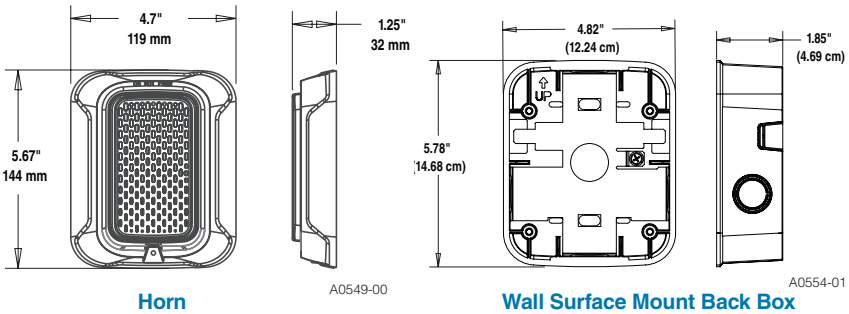


Compact Horn

Compact Wall Surface Mount Back Box
SBBGRL, SBBGWL



Strobe, Horn Strobe



Horn

Wall Surface Mount Back Box
SBBRL/SBBWL

L-Series Ordering Information

Model	Description
Wall Horn Strobes	
P2RL	2-Wire, Horn Strobe, Red
P2WL	2-Wire, Horn Strobe, White
P2GRL	2-Wire, Compact Horn Strobe, Red
P2GWL	2-Wire, Comp 2 fils act Horn Strobe, White
P2RL-P	2-Wire, Horn Strobe, Red, Plain
P2WL-P	2-Wire, Horn Strobe, White, Plain
P2RL-SP	2-Wire, Horn Strobe, Red, FUEGO
P2WL-SP	2-Wire, Horn Strobe, White, FUEGO
P4RL	4-Wire, Horn Strobe, Red
P4WL	4-Wire, Horn Strobe, White
Wall Strobes	
SRL	Strobe, Red
SWL	Strobe, White
SGRL	Compact Strobe, Red
SGWL	Compact Strobe, White
SRL-P	Strobe, Red, Plain
SWL-P	Strobe, White, Plain
SRL-SP	Strobe, Red, FUEGO
SWL-CLR-ALERT	Strobe, White, ALERT

Model	Description
Horns*	
HRL*	Horn, Red
HWL*	Horn, White
HGRL*	Compact Horn, Red
HGWL*	Compact Horn, White
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

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

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AVDS865-05 • 2/22/2018

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OFFICE OF THE STATE FIRE MARSHAL
FIRE ENGINEERING - BUILDING MATERIALS LISTING PROGRAM

LISTING SERVICE

Addendum-001 | 03-119066
AS REVISED

LISTING No. 7125-1653:0504

CATEGORY: 7125 -- FIRE ALARM DEVICES FOR THE HEARING IMPAIRED

LISTEE: System Sensor, Unincorporated Div of Honeywell Int'l Inc.3825 Ohio Ave, St. Charles, IL 60174
Contact: Megan Sisson (203) 484-6544 Fax (203) 484-7309
Email: megan.sisson@honeywell.com

DESIGN: System Sensor Indoor 2-wire Models:
SRL, SWL, SGRL, SGWL, SRL-P SWL-P, SRL-SP, SWL-CLR-ALERT and SWL-ALERT Wall Strobes;
SCRL, SCWL and SCWL-CLR-ALERT Ceiling Strobes.

Wall Bezel Parts:
BZR-F, BZR-AL, BZR-AG, BZR-EV, BZR-P, BZR-SP, BZR-PG,
BZW-F, BZW-AL, BZW-AG, BZW-EV, BZW-P, BZW-SP, BZW-PG,
BZGR-F, BZGR-AL, BZGR-AG, BZGR-EV, BZGR-P, BZGR-SP, BZGR-PG,
BZGW-F, BZGW-AL, BZGW-AG, BZGW-EV, BZGW-P, BZGW-SP and BZGW-PG,

Ceiling Bezel Parts:
BZRC-F, BZRC-AL, BZRC-AG, BZRC-EV, BZRC-P, BZRC-SP, BZRC-PG,
BZWC-F, BZWC-AL, BZWC-AG, BZWC-EV, BZWC-P, BZWC-SP and BZWC-PG.

Color Lens:
LENS-A2, LENS-B2, LENS-G2, LENS-R2, LENS-AC2, LENS-BC2, LENS-GC2 and LENS-RC2.

WallTrim Rings:
TR2 and TR2W

CeilingTrim Rings:
TRC2 and TRC2W.

Wall Surface Mounted Back Boxes:
SBBRL, SBBGRL, SBBWL and SBBGWL,

Ceiling Surface Mounted Back Boxes:
SBBCRL and SBBCWL

Refer to listee's data sheet for detailed product description and operational considerations.

*Rev 04-04-19 gt

Date Issued: **July 01, 2020** *Listing Expires* **June 30, 2021**

Authorized By: ***DAVID CASTILLO,**, M.E., F.P.E.*

Fire Engineering Division

RATING: Regulated 12 VDC setting: 8-17.5 VDC
Regulated 24 VDC/fwr setting: 16-33 VDC

INSTALLATION: In accordance with listee's printed installation instructions, NFPA 72, applicable codes & ordinances and in a manner acceptable to the authority having jurisdiction.

MARKING: Listee's name, model number, electrical rating, and UL label.

APPROVAL: Listed as two wire strobe units used for synchronous application when used with separately listed compatible fire alarm control units. Suitable for indoor use, vertical wall or horizontal ceiling mounted. *Listed with software code, S05-0048-001 for low temperature compensation. Authority having jurisdiction should be consulted prior to installation. Refer to listee's Installation Instruction Manual for details.

*Rev 04-04-19 gt

Date Issued: **July 01, 2020** *Listing Expires* **June 30, 2021**

Authorized By: ***DAVID CASTILLO,**, M.E., F.P.E.*

Fire Engineering Division

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

SIGNALING UL LISTED 75S0

7320-1653:201

MEA approved 10-08-E

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-and-out 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 ¾-inch top and bottom conduit entries and ¾-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.

Addendum-001 | 03-119066
AS REVISED

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 Specifications	
Operating Temperature	–40°F to 151°F (–40°C to 66°C)
Dimensions, Wall-Mount	
SPS Speaker Strobe	6.0″L × 5.0″W × 4.7″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 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
Power	¼, ½, 1, 2 watts

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UL Current Draw Data

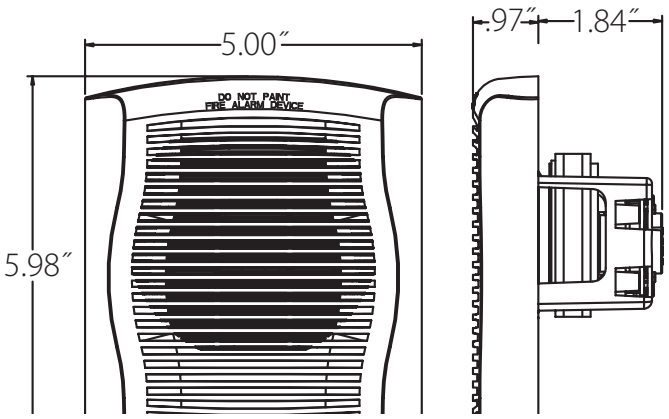
UL Max. Strobe Current Draw (mA RMS)					
		8 to 17.5 Volts		16 to 33 Volts	
	Candela	DC	FWR	DC	FWR
Standard Candela Range	15	123	128	66	71
	15/75	142	148	77	81
	30	NA	NA	94	96
	75	NA	NA	158	153
	95	NA	NA	181	176
	110	NA	NA	202	195
	115	NA	NA	210	205
High Candela Range	135	NA	NA	228	207
	150	NA	NA	246	220
	177	NA	NA	281	251
	185	NA	NA	286	258
Sound Output					
UL Reverberant (dBA @ 10 ft.)		2W	1W	½ W	¼ W
Outdoor Speaker		90	87	84	81
Outdoor Speaker/Strobe		89	86	83	80

Candela Derating

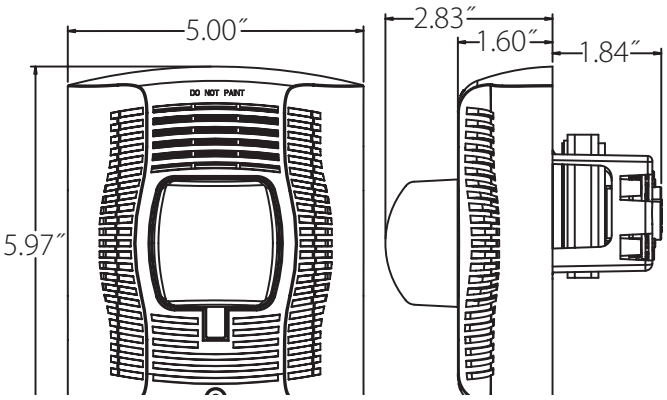
For K series products used at low temperatures, listed candela ratings must be reduced in accordance with this table.

Strobe Output (cd)	
Listed Candela	Candela rating at –40°F
15	Do not use below 32°F
15/75	
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

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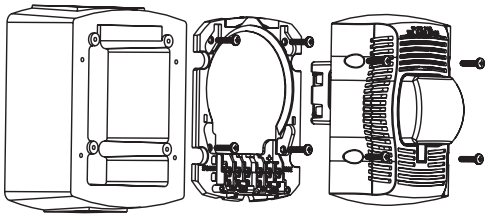
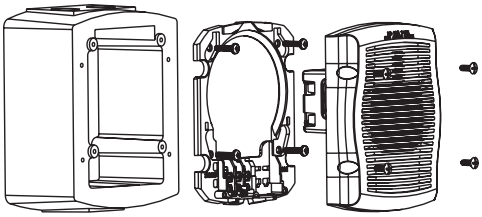
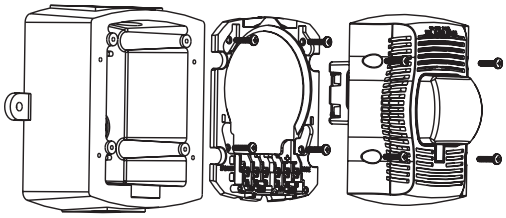
Surface Mounting



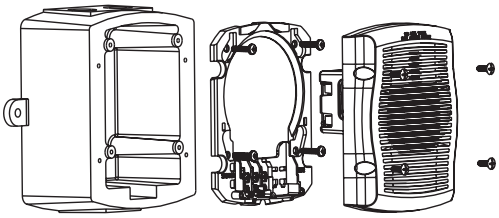
Wall-Mount Speaker Strobe with Plastic Weatherproof Back Box



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.**

SYSTEM SENSOR®

3825 Ohio Avenue • St. Charles, IL 60174
Phone: 800-SENSOR2 • Fax: 630-377-6495

AVDS11301 • 09/12

CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION
OFFICE OF THE STATE FIRE MARSHAL
FIRE ENGINEERING - BUILDING MATERIALS LISTING PROGRAM

LISTING SERVICE

Addendum-001 | 03-119066

LISTING No. 7320-1653:0201 **AS REVISED**

CATEGORY: 7320 -- SPEAKERS

LISTEE: System Sensor, Unincorporated Div of Honeywell Int'l Inc.3825 Ohio Ave, St. Charles, IL 60174
Contact: Megan Sisson (203) 484-6544 Fax (203) 484-7309
Email: megan.sisson@honeywell.com

DESIGN: Models SPR,SPW,SPRV, and SPWV SpectrAlert Speakers - Rectangular enclosure. Models SPCW, SPCR, SPCWV, and SPCRV SpectrAlert Speakers with round enclosure. Models SPSR, SPSRH, SPSW, SPSW-ALERT, SPSW-CLR-ALERT, *SPSWK-CLR-ALERT, SPSWH, SPSRV, and SPSWV SpectrAlert Speaker/Strobe with rectangular enclosure. Models SPSCR, SPSCRH, SPSCW, *SPSCWK-CLR-ALERT, SPSCWH, SPSCRV, SPSCRVH, SPSCWV, and SPSCWVH SpectrAlert Speaker/Strobe with round enclosure. Model SPSCW-CLR-ALERT Speaker/Strobe. Model SPSW-ALERT has amber lens and is intended for non-fire use.
All models identified are intended for indoor use mounted on the wall or ceiling. Models with a “K” in the suffix are suitable for indoor or outdoor use with an operating temperature rating of -40°C to +66°C (-40°F to +151°F) and have a NEMA 4X enclosure rating when used with models PWBB, PWBBW (wall) or the model PWBBCW (ceiling) plastic weatherproof back boxes or with Model MWBBW (Wall), MWBB (Wall) or MWBBCW (Ceiling) metal weatherproof back boxes. Models with a “- P” in the suffix have plain housings with no lettering on the enclosure. Models not containing “- P”, in the suffix have English lettering reading “FIRE” on the housing. Refer to listee's data sheet for additional detailed product description and operational considerations.

RATING: Nominal Voltage: 25 Vrms or 70 Vrms
Power Settings: ¼, ½, 1, 2 Watts
Frequency Range: 400 - 4000 Hz

INSTALLATION: In accordance with listee's printed installation instructions, NFPA 72, applicable codes & ordinances and in a manner acceptable to the authority having jurisdiction.

MARKING: Listee's name, model number, electrical rating and UL label.

APPROVAL: Listed as speaker/strobes when used with separately listed compatible fire alarm control units. Suitable for wall or ceiling mount.
These speaker/strobes do not generate a distinctive three-pulse temporal code pattern (for total evacuation) as required per NFPA 72, 2010 edition. If required, the appliances must be used with a fire alarm control unit that can generate the temporal pattern signal.

*Corrected 02-06-12 bh

Date Issued: **July 01, 2020** *Listing Expires* **June 30, 2021**

Authorized By: ***DAVID CASTILLO,**, M.E., F.P.E.*

Fire Engineering Division

Addendum-001 | 03-119066
AS REVISED

SK-MONITOR

Intelligent Monitor Module

The SK-MONITOR is an addressable monitor module for use with Honeywell Silent Knight Series fire alarm control panels (FACPs). The SK-MONITOR is intended for use in intelligent, two-wire systems, where individual address of each module is selected using the built-in rotary switches.

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

SK-MONITOR

INSTALLATION

The SK-MONITOR 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.

FEATURES & BENEFITS

- Single contact monitor
- Support for Class A and Class B wiring
- Fully supervised
- Panel controlled status LED that flashes green in normal state and is solid red in alarm
- SEMS screws for easy wiring
- UL Listed
- Rotary address switches for fast installation

Addendum-001 | 03-119066
AS REVISED

SK-MONITOR Technical Specifications

PHYSICAL

Height: 4.5”H x 4” W x 1.25”D (11.4 X 10.2 X 3cm)
Shipping Weight: 6.3 oz (196 g)

ELECTRICAL

Operating Voltage: 15 – 32VDC
Current Draw (LED on): 5.0mA max
Operating Current (LED flashing): 375µA
Standby Current: 400 µA max @ 24 VDC (one communication every 5 sec with 47K EOL); 550 µA max @ 24 VDC (one communication every 5 sec with EOL <1K)
5.5 mA (with LED latched on)
LED Current: 5.5 mA (with LED latched on)
End-of-Line Resistance: 47K Ω
Initiating Device Circuit Wiring Resistance: 1,500 Ω max
SLC Loop Resistance: 40 Ω max.

ENVIRONMENTAL

Operating Temperature: 32°F – 120°F (0°C – 49°C)
Humidity: 10% – 93% non-condensing

ORDERING INFORMATION

SK-MONITOR: Monitor Module

ACCESSORIES.

SMB500: 4” Square surface mount electrical box

COMPATIBILITY

The SK-MONITOR is compatible with the following Honeywell Silent Knight fire alarm control panels:
6820: Addressable fire alarm control panel
6820EVS: Addressable fire alarm control panel with an emergency mass notification system.
6808: Addressable fire alarm control panel
6700: Addressable fire alarm control panel
5700: Addressable fire alarm control panel
5808: Addressable fire alarm control panel
5820XL: Addressable fire alarm control panel
5820XL-EVS: Addressable fire alarm control panel with an emergency mass notification system

For a complete listing of all compliance approvals and certifications, please visit www.silentknight.com.

This document is not intended to be used for installation purposes. We try to keep our product information up-to date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice.

For Technical Support, call 800-446-6444.

For more information
Learn more about Honeywell Silent Knight and other products by visiting www.silentknight.com

Honeywell Silent Knight
12 Clintonville Road
Northford, CT 06472
800-328-0103

Doc 350131 | Rev G | 11/17

CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION
OFFICE OF THE STATE FIRE MARSHAL
FIRE ENGINEERING - BUILDING MATERIALS LISTING PROGRAM

LISTING SERVICE

Addendum-001 | 03-119066
AS REVISED

LISTING No. 7300-0559:0155

CATEGORY: 7300 -- FIRE ALARM CONTROL UNIT ACCESSORIES/MISC. DEVICES

LISTEE: SILENT KNIGHT SECURITYOne Fire-Lite Place, Northford, CT 06472-1653
Contact: Megan Sisson (203) 484-6544 Fax (203) 484-7309
Email: megan.sisson@honeywell.com

DESIGN: Models IDP-Relay-6, SK-Relay-6, relay module, IDP-Control-6, SK -Control-6, supervising control module, IDP-Monitor-10, SK-Mon-10, input monitor module, IDP-Zone-6, SK-Zone-6 six zone interface module, IDP-Monitor, IDP-Minimon, IDP-Zone, SK-Monitor, SK-Minimon, SK-Zone monitor modules, IDP-Control, IDP-Relay, SK-Control, SK-Relay, control modules, IDP-Monitor-2, SK-Monitor-2, dual monitor modules,and *IDP-RELAYMON-2, *SK-RELAYMON-2 with 2 input/2 output relay modules. All devices are intended to be connected between the signaling line circuit of a compatible fire alarm control panel. Refer to listee's data sheet for additional detailed product description and operational considerations.

RATING: 16-33 VDC Primary

INSTALLATION: In accordance with listee's printed installation instructions, applicable codes & ordinances and in manner acceptable to the authority having jurisdiction.

MARKING: Listee's name, product number and UL label.

APPROVAL: Listed as control unit accessories for use with listee's separately listed compatible fire alarm control units.

NOTE: If an external power supply is used for Model SK-Zone-6 and IDP-Zone-6, the negative of the external power supply is referenced to the negative of the auxiliary supply of the compatible control panel. This is done in order to detect ground faults on the initiating circuit.

XLF: 7300-0028:0219

*Rev. 10-25-11 mt

Date Issued: **July 01, 2020** *Listing Expires* **June 30, 2021**

Authorized By: ***DAVID CASTILLO,**, M.E., F.P.E.*

Fire Engineering Division

Honeywell
SILENT KNIGHT

Addendum-001 | 03-119066
AS REVISED

SK-MINIMON

Intelligent Mini Monitor Module

The SK-MINIMON is an addressable monitor modules for use with the Honeywell Silent Knight fire alarm control panels (FACPs). The SK-MINIMON acts as an interface to contact devices, such as waterflow switches and pull stations. The SK-MINIMON supports Class B supervised wiring to the load device. Conventional 4-wire smoke detectors can be monitored for alarm and trouble conditions

The SK-MINIMON can be mounted in a single gang junction box directly behind the monitored device. Its small size and light weight allow it to be installed without rigid mounting requirements.

SK-MINIMON

INSTALLATION

The SK-MINIMON can be mounted in a single gang junction box directly behind the monitored device. Its small size and light weight allow it to be installed without rigid mounting requirements.

FEATURES & BENEFITS

- Single contact monitor
- SK-Minimon support for Class B (Style B) contact monitor wiring
- Small and lightweight size allows for flexible mounting options
- Rotary address switches for fast installation
- UL Listed
- CSFM Listed
- FM Approved

SK-MINIMON Technical Specifications

Addendum-001 | 03-119066
AS REVISED

PHYSICAL

Dimensions: 2.75" W x 1.3" H x 0.5" D
Weight: 1.2 oz (37 g)

ELECTRICAL

Operating Voltage: 15 – 32VDC
SLC Standby and Alarm Current: 350 µA
End-of-Line Resistance: 47K Ω
Initiating device circuit wiring resistance: 1,500Ω max
SLC loop resistance: 40Ω max
Wire Length: 6" min.

ENVIRONMENTAL

Operating Temperature: 32°F – 120°F (0°C – 49°C)
Humidity: 10% – 93% non-condensing

ORDERING INFORMATION

SK-MINIMON: Mini monitoring module

COMPATIBILITY

The SK-MINIMON is compatible with the following Honeywell Silent Knight fire alarm control panels:

6820: Addressable fire alarm control panel
6820EVS: Addressable fire alarm control panel with an emergency voice system.
6808: Addressable fire alarm control panel
6700: Addressable fire alarm control panel
5700: Addressable fire alarm control panel
5808: Addressable fire alarm control panel
5820XL: Addressable fire alarm control panel
5820XL-EVS: Addressable fire alarm control panel with an emergency voice system

For a complete listing of all compliance approvals and certifications, please visit www.silentknight.com.

For Technical Support, call 800-446-6444.

For more information
Learn more about Honeywell Silent Knight and other products by visiting www.silentknight.com

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12 Clintonville Road
Northford, CT 06472
800-328-0103

Doc 350133 | Rev G | 11/17

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FIRE ENGINEERING - BUILDING MATERIALS LISTING PROGRAM

LISTING SERVICE

Addendum-001 | 03-119066

LISTING No. 7300-0559:0155 **AS REVISED**

CATEGORY: 7300 -- FIRE ALARM CONTROL UNIT ACCESSORIES/MISC. DEVICES

LISTEE: SILENT KNIGHT SECURITYOne Fire-Lite Place, Northford, CT 06472-1653
Contact: Megan Sisson (203) 484-6544 Fax (203) 484-7309
Email: megan.sisson@honeywell.com

DESIGN: Models IDP-Relay-6, SK-Relay-6, relay module, IDP-Control-6, SK -Control-6, supervising control module, IDP-Monitor-10, SK-Mon-10, input monitor module, IDP-Zone-6, SK-Zone-6 six zone interface module, IDP-Monitor, IDP-Minimon, IDP-Zone, SK-Monitor, SK-Minimon, SK-Zone monitor modules, IDP-Control, IDP-Relay, SK-Control, SK-Relay, control modules, IDP-Monitor-2, SK-Monitor-2, dual monitor modules,and *IDP-RELAYMON-2, *SK-RELAYMON-2 with 2 input/2 output relay modules. All devices are intended to be connected between the signaling line circuit of a compatible fire alarm control panel. Refer to listee's data sheet for additional detailed product description and operational considerations.

RATING: 16-33 VDC Primary

INSTALLATION: In accordance with listee's printed installation instructions, applicable codes & ordinances and in manner acceptable to the authority having jurisdiction.

MARKING: Listee's name, product number and UL label.

APPROVAL: Listed as control unit accessories for use with listee's separately listed compatible fire alarm control units.

NOTE: If an external power supply is used for Model SK-Zone-6 and IDP-Zone-6, the negative of the external power supply is referenced to the negative of the auxiliary supply of the compatible control panel. This is done in order to detect ground faults on the initiating circuit.

XLF: 7300-0028:0219

*Rev. 10-25-11 mt

Date Issued: **July 01, 2020** *Listing Expires* **June 30, 2021**

Authorized By: ***DAVID CASTILLO,**, M.E., F.P.E.*

Fire Engineering Division

SILENT KNIGHT
by Honeywell

Addendum-001 | 03-119066
AS REVISED

SK-Relaymon-2

Intelligent Dual Monitor Module with Two Relay Outputs

The SK-Relaymon-2 module is capable of monitoring two separate Class B circuits simultaneously, combined with two Form C relay outputs. The SK-Relaymon-2 saves you time and money by reducing what may have taken four modules to accomplish into a single module footprint

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

Description

The SK-Relaymon-2 combines two relay outputs and two monitor inputs into one module device. The module is capable of Class B supervised wiring to the monitored devices. It also contains Form C relay contacts allowing the panel to switch the contacts on command. Each monitor input provides an interface between a fire alarm control panel and one or more normally open contact-type devices. Each relay output has its own green LED.

SK-Relaymon-2

Features

- Monitor two circuits, with unique addresses, simultaneously
- Two Form C relay contacts with each having a unique address
- Fully supervised support for Class B input wiring
- Relay programming is completely flexible – can be mapped to zone conditions
- Individual LED's for each monitored input and relay output
- Attractive ivory cover plate
- Rotary address switches for fast installation
- SEMS screws for easy wiring
- UL listed
- CSFM: 7300-0559:0155

Installation

The SK-Relaymon-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® PN SMB500) is available from Silent Knight

Compatibility

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

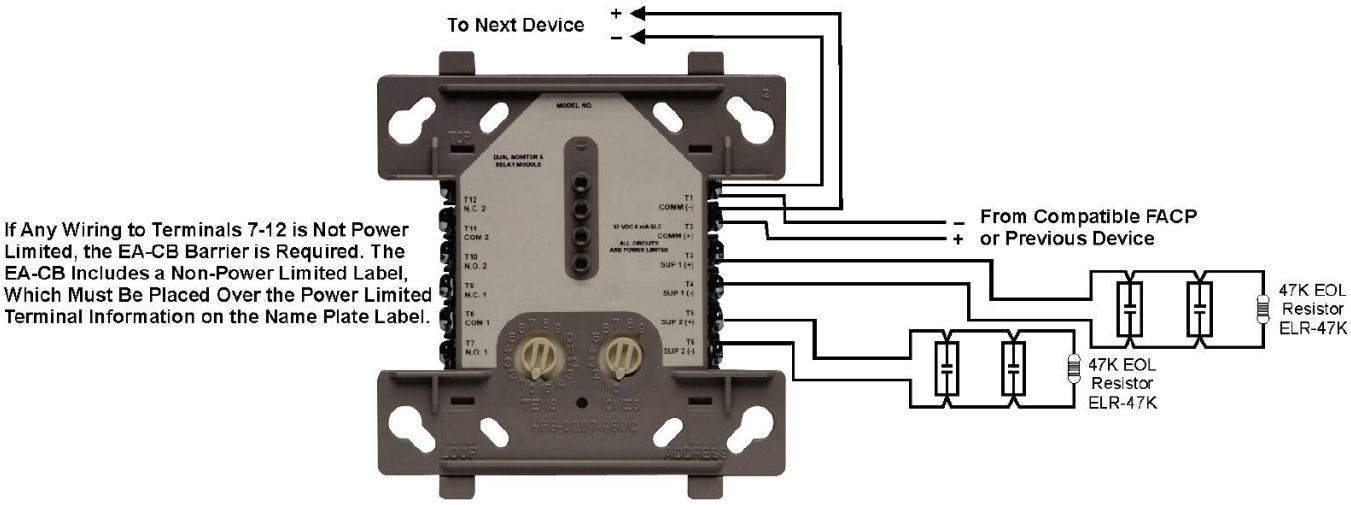
5820XL
5820XL-EVS
5808
5700

P/N 350755 Rev D

Model SK-Relaymon-2

Intelligent Dual Monitor Module with Two Relay Outputs

Addendum-001 | 03-119066
AS REVISED



Specifications

Physical

Size: 4.675” H x 4.275” W x 1.4” D (mounts to a 4” square by 2 1/8” deep box)

Shipping Weight: 6.3oz (178.6 grams)

Electrical

Operating Voltage: 15 – 32 VDC

SLC Standby and Alarm Current: 1.3 mA

Environmental

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

Relative Humidity: 10% - 93% non-condensing

Relay Contact Ratings

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

Ordering Information:

SK-Relaymon-2: Dual Relay/Monitor Module

SMB500: Surface-mount electrical box

SILENT KNIGHT
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OFFICE OF THE STATE FIRE MARSHAL
FIRE ENGINEERING - BUILDING MATERIALS LISTING PROGRAM

LISTING SERVICE

Addendum-001 | 03-119066

LISTING No. 7272-0559:0517 **AS REVISED**

CATEGORY: 7272 -- SMOKE DETECTOR-SYSTEM TYPE-PHOTOELECTRIC

LISTEE: SILENT KNIGHT SECURITYOne Fire-Lite Place, Northford, CT 06472-1653
Contact: Megan Sisson (203) 484-6544 Fax (203) 484-7309
Email: megan.sisson@honeywell.com

DESIGN: Models IDP-FIRE-CO-W, IDP-FIRE-CO-IV, SK-FIRE-CO-W, photoelectric smoke detector with complementary heat detector, electrochemical carbon monoxide (CO) detector and supplemental infrared flame sensor, analog addressable.

Models IDP-PTIR-W, IDP-PTIR-IV, SK-PTIR-W, photoelectric smoke detector with complementary heat detector, and supplemental infrared flame sensor, analog addressable.

Model SK-PHOTO-CO-W, photoelectric smoke detector with complementary carbon monoxide (CO) detector, analog addressable.

Refer to listee's printed data sheet for additional detailed product description and operational considerations.

RATING: 24 VDC

INSTALLATION: In accordance with the listee's printed installation instructions, applicable codes and ordinances and in a manner acceptable to the authority having jurisdiction.

MARKING: Listee's name, model number, electrical rating, and UL label.

APPROVAL: Listed as photoelectric smoke detector with complementary heat detector, and supplemental infrared flame sensor for use withSystem Sensor (S911) - Models B200S, B200S-WH, B200S-IV, B200SR, B200SR-WH, B200SR-IV, (CSFM Listing 7300-1653:0213) *B200S-LF, *B200S-LF-IV, *B200S-LF-WH, B200SR-LF, B200SR-LF-WH, B200SR-LF-IV, (CSFM Listing 7300-1653:0238), B210LP, B300-6, B300-6-IV, B300-6-IS, B300-6-IS-W, B300-6-IS-IV, B501, B501-WHITE, B501-IV, B501-BL, (CSFM Listing 7300-1653:0109) B224BI, B224BI-WH, B224BI-IV, B224RB, B224RB-WH, B224RB-IV, (CSFM Listing 7300-1653:0126).
Silent Knight (S6173) - Model IDP-6AB (CSFM Listing 7300-0559:0159).
Fire-Lite (S1059) - Model B350LP (CSFM Listing 7300-0075:0192).

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Date Issued: **July 01, 2020** *Listing Expires* **June 30, 2021**

Authorized By: ***DAVID CASTILLO,**, M.E., F.P.E.*

Fire Engineering Division