Froula Alarm Systems, Inc.
861 Industry Drive ♦ Tukwila WA 98188-3411
Phone: 206-575-1962 ♦ Fax: 206-575-8168

March 14, 2024

Fire Alarm System

Submittals

For

GSMOB
3rd Floor
Women's Clinic Tenant Improvement
1450 – 5th Street SE
Puyallup, Washington 98372

HOWARD WILLIAMSON, SET
NICET #82289
FIRE ALARM SYSTEMS
LEVEL IV

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Table of Contents

Fire Alarm System

Manufacturer	Model No.	Description
Farenhyt	**RPS-1000**	**Intelligent Distributed Power Panel - EXISTING**
Farenhyt	**IDP-Photo**	**Addressable Smoke Detector**
Farenhyt	**B300-6**	**Detector Base**
System Sensor	**SCWL**	**Multi-Candela Ceiling Mount Strobe**
Interstate	**BSL1075**	**12V 7.2AH Battery**
Coleman	**81802**	**18-2 FPLP Wire**
Coleman	**81402**	**14-2 FPLP Wire**

Farenhyt

SILENT KNIGHT
by Honeywell

Intelligent Power Module

6 Amp Intelligent Distributed Power Module

RPS-1000

RPS-1000 intelligent distributed power module adds 6.0 amps of power, six Flexput™ I/O circuits, and two Form C relay circuits to a compatible Farenhyt addressable system. RPS-1000 connects to the FACP via the RS-485 system bus allowing up to an additional 6,000 feet of wiring. Each RPS-1000 is optically isolated providing ground loop isolation and transient protection. RPS-1000 supports its own backup battery and monitors the AC power. The Flexput circuits can be programmed as notification appliance circuits, continuous, resettable, or door holder power, or as conventional initiation circuits for 2 or 4-wire smoke detectors and contact devices (e.g. pull stations).

Features

- Six onboard Flexput circuits programmable for:
  - Notification appliance circuits (Class B/Style Y & Class A/Style Z)
  - Conventional initiation circuits (Class B/Style B & Class A/Style D) both 2- and 4-wire
  - Auxiliary power (for door holders, continuous power, or resettable power)
- 6.0 amps output power
- Supports Class A (Style 6) and Class B (Style 4) configuration of the SBUS
- Two Form C programmable relays rated at 2.5A @ 24 VDC
- Ground loop isolation and transient protection
- Provides SBUS optical isolation and re-conditions the RS-485 signal
- Built-in synchronization for appliances from System Sensor®, AMSECO, Gentex®, Faraday, and Wheelock®
- Up to 6,000 foot wiring distance from the RPS-1000
- Battery charging capacity is 35 Ah
- Large cabinet size can house two 18 Ah backup batteries or RBB accessory cabinet can house battery sizes larger that 18 Ah
- Room to mount two 5815XL SLC expander modules

Agency Listings

MEA
approved
429-92-E Vol IX

RPS-1000

Compatibility

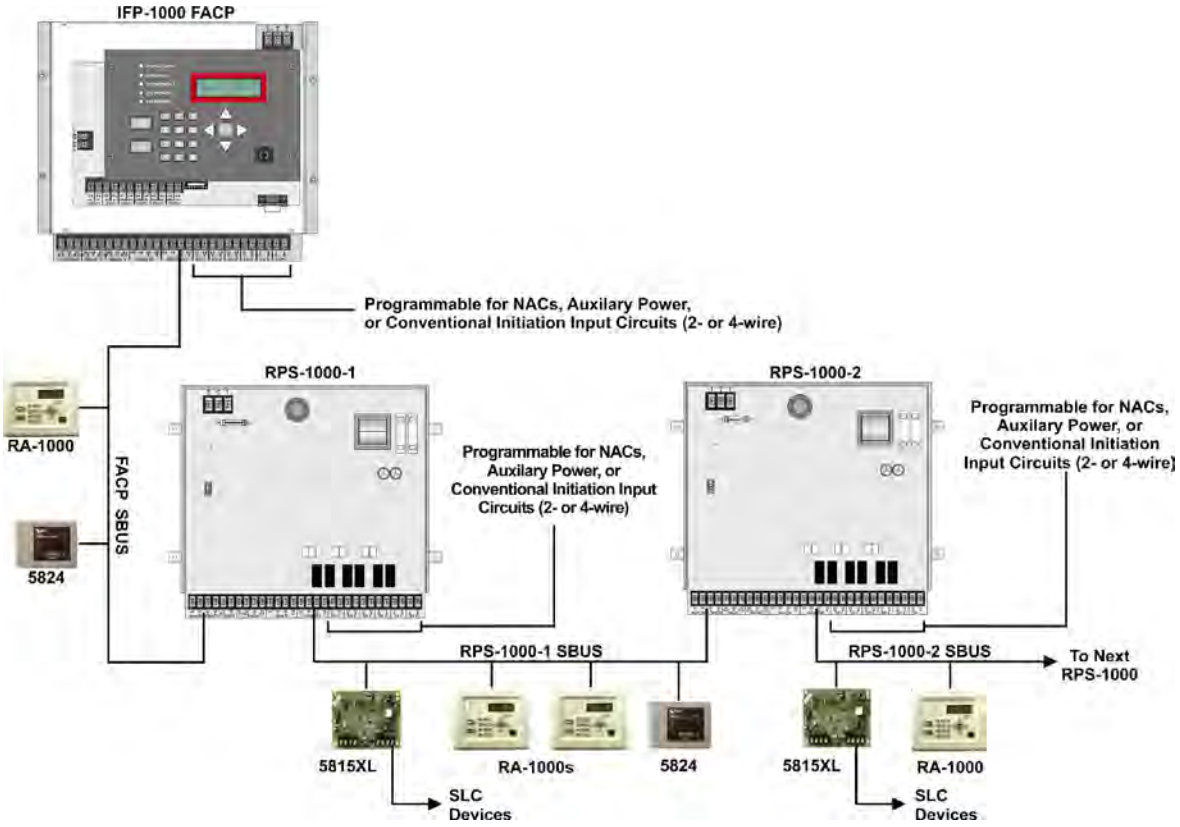
RPS-1000 is compatible with the following FACPs:

- IFP-2000/RPS-2000 (63 max per panel)
- IFP-2000ECS (63 max per panel)
- IFP-1000 (8 max per panel)
- IFP-1000ECS (8 max per panel)
- IFP-100 (8 max per panel)
- IFP-100ECS (8 max per panel)
- IFP-50 (8 max per panel)

Installation

RPS-1000 can be surface or flush mounted.

P/N 350070 Rev K



Specifications

Electrical

Primary AC:
120 VRMS, 50 or 60 Hz, 2.7A, or
240 VRMS 50 or 60 Hz, 1.4A

Total Accessory Load: 6A @ 24 VDC

Current:

Standby: 40 mA
Alarm: 160 mA

Flexput Circuits:
Notification: 3 amps per circuit (6A system total)
Initiation: 100 mA power limited @ 24 VDC

Physical

Mounting Dimensions:
14.5"W x 24.75"H x 3.9"D
(36.8 cm W x 62.9 cm H x 9.8 cm D)

Overall Dimensions:
16.1"W x 26.4"H x 4.1"D
(40.6 cm W x 67 cm H x 11.8 cm D)

Color: Red

Environmental

Operating Temperature: 32ºF – 120ºF (0ºC – 49ºC)

Humidity: 10% – 93% non-condensing

Approvals

- UL 864
- NFPA 13, NFPA 15, NFPA 16, NFPA 70, NFPA 72, & NFPA 101
- CSFM
- MEA 429-92-E Vol. IX
- FM
- OSHPD (CA) OSP-0065-10

Ordering Information

RPS-1000	Intelligent Distributed Power Module. Specify 120 VAC or 240 VAC operation when ordering.

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)
AB-55	Remote Battery Box Accessory Cabinet. 20"W x 12" H x 7.5" D
5815XL	SLC Expander Module
SK-SCK	Seismic Compliance Kit

SILENT KNIGHT®
by Honeywell

Honeywell
THE POWER OF CONNECTED | Farenhyt™ Series

IDP-PHOTO / IDP-PHOTO-T / IDP-PHOTOR

Intelligent Photoelectric Smoke Detector and Photoelectric Smoke Detector with Thermal

The IDP-PHOTO is a photoelectric smoke detector and the IDP-PHOTO-T is a photoelectric smoke detector with thermal. These plug in smoke detectors, with integral communication, provide features that surpass conventional detectors and are for use with the Honeywell Farenhyt Series fire alarm control panels (FACPs).

Detector sensitivity can be programmed from the FACP software. Sensitivity is continuously monitored and reported to the FACP. Point ID capability allows each detector's address to be set with rotary address switches, providing exact detector locations for selective maintenance when chamber contamination reaches unacceptable levels.

IDP-Photo and IDP-Photo-T have a unique optical sensing chamber that is engineered to sense smoke produced by a wide range of combustion sources. In the IDP-Photo-T, dual electronic thermistors add 135°F (57°C) thermal technology to maximize detection.

The IDP-PhotoR is a remote test capable detector for use with the DNR (W) duct smoke detectors. It is UL 268A listed when used with the DNR (W) duct smoke detector.

IDP-PHOTO (BASE NOT INCLUDED)

Installation

The IDP-Photo and IDP-Photo-T plug into a compatible IDP-series detector base. The IDP-PhotoR is a remote test capable detector for use with the DNR (W) duct smoke detector.

FEATURES & BENEFITS

- Sleek, low-profile design
- Reliable analog communications for trouble-free operation
- Age resistant polymer housing
- Dual electronic thermistor design on the IDP-Photo-T
- Superior EMI resistance for reliability
- Simple field cleaning for code compliance
- Variety of mounting options to meet any application
- Dual LED indicators for 360° visibility
- Detector transmits signal to indicate maintenance is required
- Optional remote LED annunciator (System Sensor® PN RA100Z)
- Plug-in mounting provides ease of installation
- Tamper-proof feature available on mounting bases
- Listed for use in duct applications
- Rotary address switches for fast installation
- UL Listed
- FM Approved
- CSFM Listed
- MEA Listed 225-02-E Vol. V

IDP-PHOTO, IDP-PHOTOR and IDP-PHOTO-T Technical Specifications

PHYSICAL

Height: 2.0" (5.08cm) less sensor
Diameter: 4.1" (10.4CM) installed in B501 base

ENVIRONMENTAL

Operating Temperature:
IDP-PHOTO: 32°F - 120 °F (0°C - 49°C)
IDP-PHOTO-T: 32°F - 100 °F (0°C - 38°C)

Humidity: 10 to 93% non-condensing)

ELECTRICAL RATINGS

Operating Voltage: 15 – 32VDC
SLC Standby and Alarm Current: 300 µA

OTHER RATINGS

IDP-PHOTO-T Thermal: Fixed temperature set point 135°F (57°C)
Velocity: 0 – 4000 fpm (0 – 20 m/sec) (suitable for installation in ducts)
IDP-PHOTO Insect Screen Hole Size: 0.016" (0.41 mm)nominal

ORDERING INFORMATION

IDP-PHOTO: Photoelectric Smoke Detector
IDP-PHOTO-T: Photoelectric Smoke Detector with Thermal (135°F)
IDP-PHOTOR: Photoelectric Smoke Detector, remote test capable, for use with DNR (W) duct smoke detector

ACCESSORIES

RA100Z: Remote LED Annunciator.
XR2B: Detector Removal Tool. A removal and replacement tool for IDP plug-in detectors. Includes the T55-127-000.
M02-04-01: Detector Test Magnet
M02-09-00: Test Magnet with Telescoping Handle
XP-4: Extension Pole for XR2B. Extends from 5 – 15 ft.
T55-127-000: Detector Removal Head.
BCK-200B: Black Detector Kit. For IDP-series detectors.
* Unless otherwise noted, specifications apply to IDP-Photo and IDP-Photo

COMPATIBILITY

The IDP-PHOTO, IDP-PHOTO-T and IDP-PHOTOR are compatible with the following IDP series detector bases:

- B210LP 6" Mounting Base
- B501 4" Mounting Base
- B224BI 6" Isolator Base
- B224RB 6" Relay Base
- B200SR 6" Sounder Base

The IDP-PHOTO, IDP-PHOTO-T and IDP-PHOTOR are compatible with the following Farenhyt Series FACPs:

- IFP-2100 / IFP-2100ECS / RFP-2100
- IFP-2000 / IFP-2000ECS / RPS-2000
- IFP-1000 / IFP-1000ECS
- IFP-300 / IFP-300ECS
- IFP-100 / IFP-100ECS
- IFP-75
- IFP-50

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

Learn more about Honeywell's Farenhyt Series and other products available by visiting www.farenhyt.com

Honeywell Security & Fire
12 Clintonville Road
Northford, CT 06472
800-328-0103

Doc 350280 | Rev J | 11/17

Honeywell

B300-6 and B300-6-IV
6" Plug-in Detector Bases

3825 Ohio Avenue, St. Charles, Illinois 60174
1-800-SENSOR2, FAX: 630-377-6495
www.systemsensor.com

SPECIFICATIONS

Base Diameter:	6.1 inches (155 mm)
Base Height:	0.76 inches (19 mm)
Operating Temperature:	Refer to applicable sensor Operating Temperature Range using the Base/Sensor Cross Reference Chart at systemsensor.com.
Electrical Ratings:	
Operating Voltage:	15 to 32 VDC
Standby Current:	170 µA
Listings: UL268	

BEFORE INSTALLING

Please read the *System Smoke Detectors Application Guide*, which provides detailed information on detector spacing, placement, zoning, wiring, and special applications. Copies of this application guide are available from System Sensor. NFPA 72 guidelines should be observed.

NOTICE: This manual should be left with the owner/user of this equipment.

IMPORTANT: The detector used with this base must be tested and maintained regularly following NFPA 72 requirements. The detector should be cleaned at least once a year.

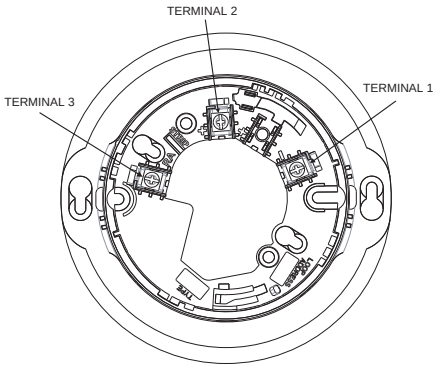
GENERAL DESCRIPTION

The B300-6 and B300-6-IV are plug-in detector bases intended for use in an intelligent system, with screw terminals provided for power (+ and –), and remote annunciator connections. Communication takes place over the power lines (+ and –).

BASE TERMINALS

NO.	FUNCTION
1	Power (–), Remote Annunciator (–)
2	Power (+)
3	Remote Annunciator (+)

FIGURE 1. TERMINAL LAYOUT



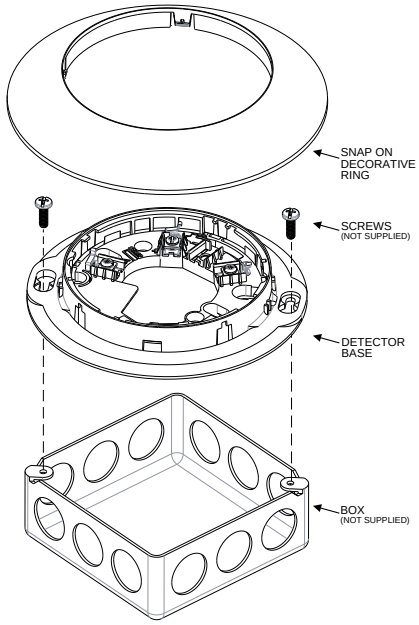
C2252-00

MOUNTING

This detector base mounts directly to 4-inch square (with and without plaster rings), 4-inch octagon, 3 1/2-inch octagon, and single gang junction boxes. To mount, remove the decorative ring by turning it in either direction to unhook the snaps, then separate the ring from the base. Install the base on the box using the screws supplied with the junction box and the appropriate mounting slots in the base.

Place the decorative trim ring on the base and rotate it in either direction until it snaps into place. (See Figure 2.)

FIGURE 2. MOUNTING DETECTOR TO BOX



C2253-00

INSTALLATION AND WIRING GUIDELINES (SEE FIGURE 3)

All wiring must be installed in compliance with all applicable local codes and any special requirements of the authority having jurisdiction. Proper wire gauges should be used. The conductors used to connect smoke detectors to control panels and accessory devices should be color-coded to reduce the likelihood of wiring errors. Improper connections can prevent a system from responding properly in the event of a fire.

For signal wiring (the wiring between interconnected detectors), it is recommended that the wire be no smaller than 18 AWG (0.823 mm²). Wire sizes up to 12 AWG (3.31 mm²) may be used with the base.

Make electrical connections by stripping about 3/8 inch (10 mm) of insulation from the end of the wire (use strip gauge molded in base). Then slide the wire under the clamping plate and tighten the clamping plate screw. Do not loop the wire under the clamping plate. (See Figure 4.)

Check the zone wiring of all bases in the system before installing the detectors. This includes checking the wiring for continuity, correct polarity, ground fault testing and performing a dielectric test.

The base includes an area for recording the zone, address, and type of detector being installed. This information is useful for setting the detector head address and for verification of the detector type required for that location.

Once all detector bases have been wired and mounted, and the loop wiring has been checked, the detector heads may be installed in the bases.

TAMPER-RESIST FEATURE

NOTE: Do not use the tamper-resist feature if a removal tool will be used.

The detector base includes a tamper-resist feature that prevents removal of the detector without using a small screwdriver or similar tool.

To activate this feature, use needle-nose pliers to break the tab on the detector base as shown in Figure 5A. Then, install the detector.

To remove the detector from the base once the tamper-resist feature has been activated, remove the decorative ring by rotating it in either direction and pulling it away from the base. Then, insert a small screwdriver into the notch, as indicated in Figure 5B, and press the plastic lever toward the mounting surface before rotating the detector counterclockwise for removal.

The tamper-resist feature can be defeated by breaking and removing the plastic lever from the base. However, this prevents the feature from being used again.

REMOTE ANNUNCIATOR (RA100Z)

Connect the remote annunciator between terminals 1 and 3 using the spade lug terminal included. The spade lug terminal is connected to the base terminal as shown in Figure 6.

It is not acceptable to have three stripped wires under the same wiring terminal unless they are separated by a washer or equivalent means. The spade lug supplied with the model RA100Z is considered an equivalent means. See Figure 3 for proper installation.

FIGURE 3. TYPICAL WIRING DIAGRAM FOR 2-WIRE LOOP

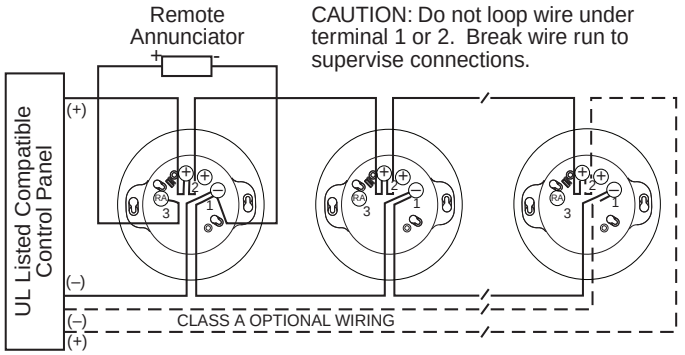


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FIGURE 4. TERMINAL WIRE INSTALLATION

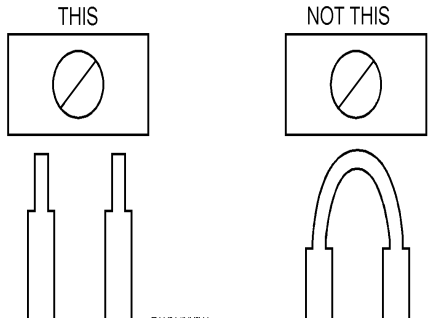

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FIGURE 5A. ACTIVATE TAMPER-RESIST FEATURE

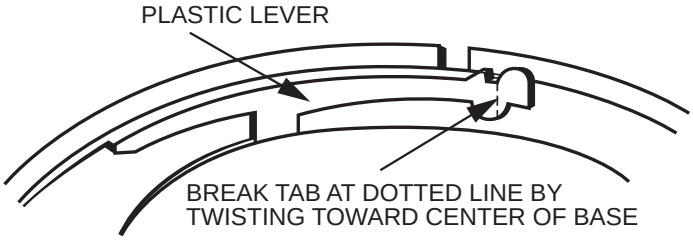

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FIGURE 5B. DETECTOR REMOVAL

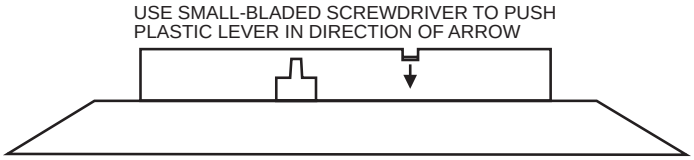

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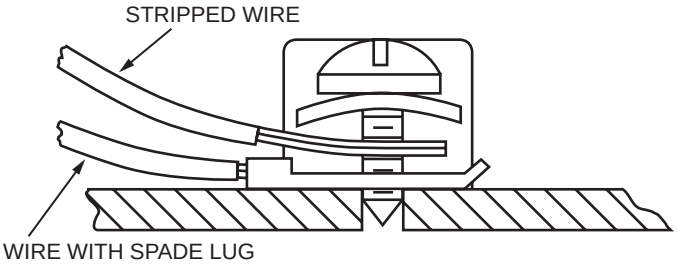
FIGURE 6. CONNECTION TO REMOTE ANNUNCIATOR TERMINAL



C0116-00

Please refer to insert for the Limitations of Fire Alarm Systems

THREE-YEAR LIMITED WARRANTY

System Sensor warrants its enclosed smoke detector base to be free from defects in materials and workmanship under normal use and service for a period of three years from date of manufacture. System Sensor makes no other express warranty for this smoke detector base. No agent, representative, dealer, or employee of the Company has the authority to increase or alter the obligations or limitations of this Warranty. The Company's obligation of this Warranty shall be limited to the repair or replacement of any part of the smoke detector base which is found to be defective in materials or workmanship under normal use and service during the three year period commencing with the date of manufacture. After phoning System Sensor's toll free number 800-SENSOR2 (736-7672) for a Return Authorization number, send defective units postage prepaid to: Honeywell, 12220 Rojas Drive, Suite 700, El Paso TX 79936 USA. Please include a note describing the malfunction and suspected cause of failure. The Company shall not be obligated to repair or replace units which are found to be defective because of damage, unreasonable use, modifications, or alterations occurring after the date of manufacture. In no case shall the Company be liable for any consequential or incidental damages for breach of this or any other Warranty, expressed or implied whatsoever, even if the loss or damage is caused by the Company's negligence or fault. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Indoor Selectable-Output Strobes and Horn Strobes for Ceiling 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

- 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 ceiling units: 15, 30, 75, 95, 115, 150, and 177
- Horn rated at 88+ dBA at 16 volts
- Rotary switch for horn tone and two volume selections
- Universal mounting plate for ceiling units
- Mounting plate shorting spring feature checks wiring continuity before device installation
- Electrically Compatible with legacy SpectrAlert and SpectrAlert Advance devices
- Compatible with MDL3 sync module
- Listed for ceiling mounting only

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, wall and ceiling mounting options, System Sensor L-Series can meet virtually any application requirement.

The entire L-Series product line of ceiling-mount strobes and horn strobes include a variety of features that increase their application versatility while simplifying installation. All devices feature a plug-in design 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, the L-Series utilizes a universal mounting plate so installers can mount them to a wide array of back boxes. With an onboard shorting spring, 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.

Agency Listings

SIGNALING UL LISTED	FM APPROVED	
S5512 S4011	FM approved except for ALERT models 3057383	7125-1653:0504 7135-1653:0503

L-Series Specifications

Architect/Engineer Specifications

General

L-Series ceiling-mount strobes and horn strobes shall mount to a standard 4 × 4 × 1½-inch back box, 4-inch octagon back box, or double-gang back box. Two-wire products shall also mount to a single-gang 2 × 4 × 17/8-inch back box. A universal mounting plate shall be used for mounting ceiling and wall products. 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. Ceiling strobes and horn strobes shall have field-selectable candela settings including 15, 30, 75, 95, 115, 150, and 177.

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 L-Series 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 VDC 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)	8.5 to 17.5V (12 V nominal) or 16.5 to 33 V (24V nominal)
Input Terminal Wire Gauge	12 to 18 AWG
Ceiling-Mount Dimensions (including lens)	6.8" diameter × 2.5" high (173 mm diameter × 64 mm high)
Ceiling-Mount Surface Mount Back Box Skirt Dimensions (SBBCRL, SBBCWL)	6.9" diameter x 3.4" high (175 mm diameter x 86 mm high)

Notes:

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. P, S, PC, and SC products will operate at 12 V nominal only for 15 and 30 cd.

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	87	41	60
	30	153	63	86
	75	N/A	111	142
	95	N/A	134	164
	115	N/A	158	191
	150	N/A	189	228
	177	N/A	226	264

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), Ceiling Horn Strobe, Candela Range (15–177 cd)

	8–17.5 Volts		16–33 Volts						
DC Input	15cd	30cd	15cd	30cd	75cd	95cd	115cd	150cd	177cd
Temporal High	103	167	71	90	143	165	187	217	254
Temporal Low	96	165	54	71	137	161	185	211	249
Non-Temporal High	106	173	71	90	141	165	187	230	273
Non-Temportal Low	95	166	54	71	124	161	170	216	258
3.1K Temporal High	111	164	69	94	147	163	184	229	257
3.1K Temporal Low	103	163	54	88	143	155	185	212	252
3.1K Non-Temporal High	111	172	69	94	144	164	202	229	271
3.1K Non-Temporal Low	103	169	54	88	131	155	187	217	259

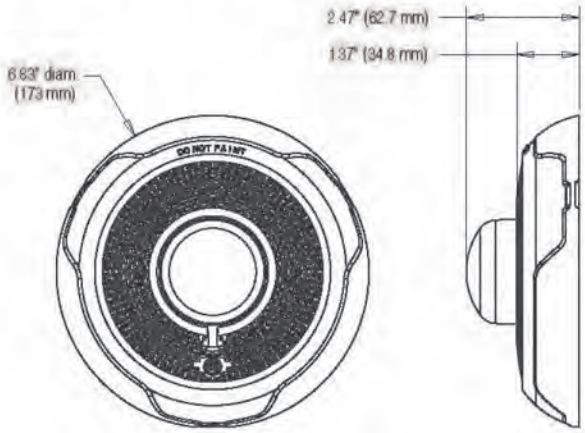
	16–33 Volts						
FWR Input	15cd	30cd	75cd	95cd	115cd	150cd	177cd
Temporal High	107	135	179	198	223	254	286
Temporal Low	78	101	151	172	199	229	262
Non-Temporal High	107	135	179	198	223	254	286
Non-Temportal Low	78	101	151	172	199	229	262
3.1K Temporal High	108	135	179	200	225	255	289
3.1K Temporal Low	79	101	150	171	196	229	260
3.1K Non-Temporal High	108	135	179	200	225	255	289
3.1K Non-Temporal Low	79	101	150	171	196	229	260

Horn Strobe Tones and Sound Output Data

Horn Strobe Output (dBA)

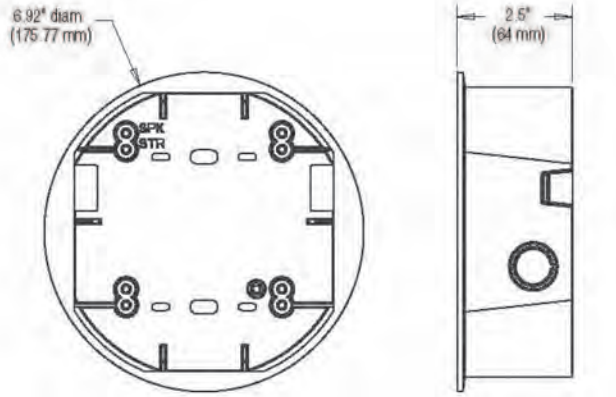
			8–17.5 Volts	16–33 Volts	
Switch Position	Sound Pattern	dB	DC	DC	FWR
1	Temporal	High	84	89	89
2	Temporal	Low	75	83	83
3	Non-Temporal	High	85	90	90
4	Non-Temporal	Low	76	84	84
5	3.1 KHz Temporal	High	83	88	88
6	3.1 KHz Temporal	Low	76	82	82
7	3.1 KHz Non-Temporal	High	84	89	89
8	3.1 KHz Non-Temporal	Low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

L-Series Dimensions



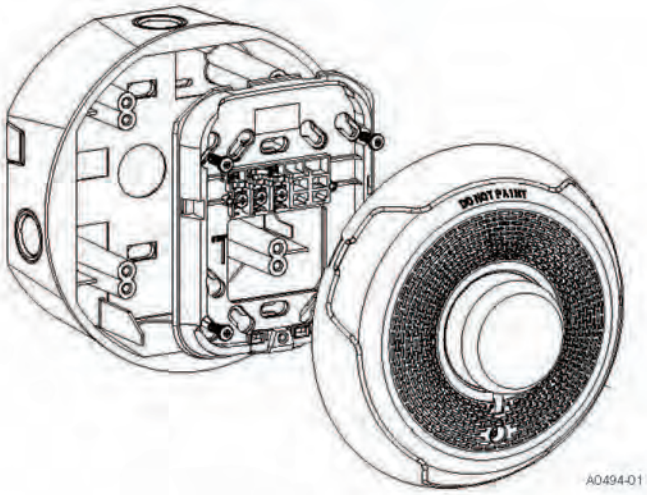
A0545-00

Ceiling-Mount Horn Strobes



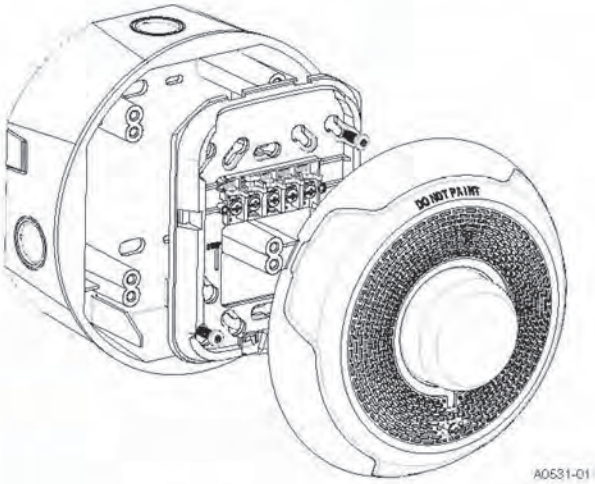
A0546-00

Ceiling Surface Mount Back Box



A0494-01

2-Wire Ceiling Mount Horn Strobes with Ceiling Surface Mount Back Box



A0531-01

4-Wire Ceiling Mount Horn Strobes with Ceiling Surface Mount Back Box

L-Series Ordering Information

Model	Description
Ceiling Horn Strobes	
PC2RL	2-Wire, Horn Strobe, Red
PC2WL	2-Wire, Horn Strobe, White
PC4RL	4-Wire, Horn Strobe, Red
PC4WL	4-Wire, Horn Strobe, White

Model	Description
Ceiling Strobes	
SCRL	Strobe, Red
SCWL	Strobe, White
SCWL-CLR-ALERT	Strobe, White, ALERT
Accessories	
TRC-2	Universal Ceiling Trim Ring Red
TRC-2W	Universal Ceiling Trim Ring White
SBBCRL	Ceiling Surface Mount Back Box, Red
SBBCWL	Ceiling Surface Mount Back Box, White

For a ceiling-listed horn-only device, see AVDS865 "Indoor Selectable-Output Horns, Strobes, and Horn Strobes for Wall Applications".

SYSTEM SENSOR

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

AVDS868-02 • 12/01/2017

Specification Sheet

Sealed Lead-Acid Batteries

BSL1075

(PC1270)

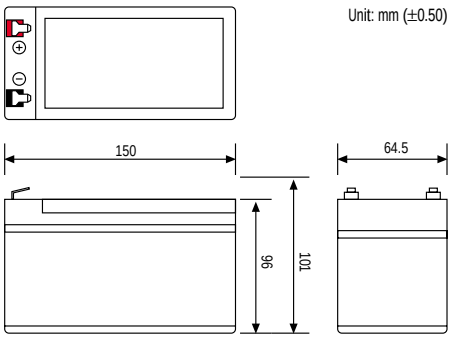
Capacity Specifications

Cut-off Voltage	20 Hr Rate (0.36 A)		7.2 Ah
1.75 v/c @ 25°C	10 Hr Rate (0.65 A)		6.5 Ah
1.70 v/c	5 Hr Rate (1.14 A)		5.7 Ah
1.55 v/c	1 Hr Rate (4.1 A)		4.1 Ah
		Bloc	Per Cell
Charge Voltage *(constant)*	Float	13.5~13.8	2.25~2.30
	Cycle	14.4~14.7	2.40~2.45
Discharge Current Amps *(5 seconds maximum)*	80		
Discharge Current Amps *(maximum continuous)*	50		
Max. Charge Current		2.16 A	
Approx Final Charge Current *(2.25 v/c Float)*		0.014 (14 mA)	
Approx Final Charge Current *(2.45 v/c Cycle)*		0.07 (70 mA)	
Terminal Type		Type A / (G optional)	
Self Discharge		9 months @ 21°C	
Case Material		ABS – Gray* or Black	

Due to changes in the manufacturing processes, specifications may change without notice.
*Gray option is Flame Retardant ABS.

Technical Specifications

Nominal Voltage		12V
Nominal Capacity		7.2 Ah (20 Hr Rate)
Dimensions	Length:	150 mm
	Width:	64.5 mm
	Height:	95 mm
Total Height/Terminal:		101 mm
Weight		Approx 2.75 Kg



Actual Wattage / Ampere Capacity at Various Discharge Times (Volt per Cell @ 25°C)

Cut Off Voltage \ Time		5 Min.	10 min.	15 min.	30 min.	45 min.	60 min.
1.75 v/c	W	45.4	30.77	23.28	12.9	10.31	8.07
25°C	A	25.94	17.58	13.3	7.37	5.89	4.61
1.67 v/c	W	47.76	31.4	23.9	13.09	10.04	8.07
25°C	A	28.6	18.8	14.31	7.84	6.01	4.83
1.60 v/c	W	49.28	31.52	24.0	13.3	9.3	7.79
25°C	A	30.8	19.7	15.0	8.31	5.81	4.87

Toll-Free (800) 323-9355 Wiring The World Fax: (847) 689-1192

PRODUCT DATA SHEET

PART NUMBER: 81802
DESCRIPTION: 18/2 SOLID FPLP FT6 CABLE
CONSTRUCTION: This cable consists of two bare copper insulated conductors and an overall jacket.
APPROVALS: UL Standard 1424, NEC Article 760.
APPLICATION: Fire Alarm Power Limited Circuit Cable Used in Plenum Applications

Construction Parameters:

Cable Cross-Section

Conductor	18 AWG Bare Copper
Stranding	Solid
Insulation Material	Polymer Alloy
Insulation Thickness	0.006" Nom.
Insulated Conductor Diameter	0.052" Nom.
Number of Conductors	2
Lay Length	1.75" Nom.
Jacket Material	Low Smoke PVC
Jacket Thickness	0.016" Nom.
Overall Cable Diameter	0.136" Nom.
Approximate Cable Weight	17.4 Lbs/1M' Nom.
Flame Rating	UL 910 Steiner Tunnel Smoke and Flame Test

Electrical Properties:

Temperature Rating	-20^{O}C to 75^{O}C
Operating Voltage	300 V RMS Max.
Capacitance Between Conductors @ 1 KHz	50 pF/ft Nom.
Capacitance Between Conductors to Shield @ 1 KHz	-----
DC Resistance per Conductor @ 20^{O}C	6.32 Ohms/1M' Nom.

Insulation Colors	Black Red
Jacket Color	Red (Other colors available for minimum order)
Legend (Surface Ink Print)	E100315 * 18 AWG 2/C (UL) TYPE FPLP 75C -- C(UL) TYPE CMP FT6

On special orders, the customer will accept all factory lengths and +/- 10 percent of total order requested.
The jacket is sequentially footmarked.
The information presented here is, to the best of our knowledge, is true and accurate. However, since conditions of use are beyond our control, all recommendations or suggestions are presented without guarantee or responsibility on our part. We disclaim all liability in connection with the use of information contained herein or otherwise.

Customer Name_____

Customer Approval _____

Specification Issue Date: January 19, 2001

Toll-Free (800) 323-9355 Wiring The World Fax: (847) 689-1192

PRODUCT DATA SHEET

PART NUMBER: 81402
DESCRIPTION: 14/2 SOLID FPLP METRO CABLE
CONSTRUCTION: This cable consists of two bare copper insulated conductors and an overall jacket.
APPROVALS: UL Standard 1424, NEC Article 760.
APPLICATION: Fire Alarm Power Limited Circuit Cable Used in Plenum Applications

Construction Parameters:

Cable Cross-Section

Conductor	14 AWG Bare Copper
Stranding	Solid
Insulation Material	Polymer Alloy
Insulation Thickness	0.009" Nom.
Insulated Conductor Diameter	0.082" Nom.
Number of Conductors	2
Lay Length	1.75" Nom.
Jacket Material	Low Smoke PVC
Jacket Thickness	0.020" Nom.
Overall Cable Diameter	0.204" Nom.
Approximate Cable Weight	37.4 Lbs/1M' Nom.
Flame Rating	UL 910 Steiner Tunnel Smoke and Flame Test

Electrical & Enviromental Properties:

Temperature Rating	-20^{O}C to 75^{O}C
Operating Voltage	300 V RMS Max.
Capacitance Between Conductors @ 1 KHz	54 pF/ft Nom.
Capacitance Between Conductors to Shield @ 1 KHz	-----
Inductance	0.07 uH/ft Nom.
DC Resistance per Conductor @ 20^{O}C	2.54 Ohms/1M' Nom.

Insulation Colors	Black Red
Jacket Color	Red (Other colors available for minimum order)
Legend (Surface Ink Print)	E100315 * 14 AWG 2/C (UL) TYPE FPLP 75C

On special orders, the customer will accept all factory lengths and +/- 10 percent of total order requested.
The information presented here is, to the best of our knowledge, is true and accurate. However, since conditions of use are beyond our control, all recommendations or suggestions are presented without guarantee or responsibility on our part. We disclaim all liability in connection with the use of information contained herein or otherwise.

Customer Name_____ Date Signed _____

Customer Approval _____

Specification Issue Date: August 13, 2001