

5230 Remote Annunciator

Program and operate the 5104, 5204, or 5207 FACP from a distance with the 5230 remote annunciator.

The 5230 remote annunciator provides remote annunciation for the 5104 Fire Communicator, 5204 Fire Alarm Control Panel (FACP), and 5207 FACP. The 5230 performs all system operations. It also provides trouble and alarm information and can be used for programming. The 5230 is also used to program the 5128/29 Fire Slave Communicators.

For more information about the 5230, or to locate your nearest source, please call 1-800-328-0103.

Description

The 5230 is a remote annunciator that provides both trouble and alarm annunciation, and a convenient means for programming the 5104, 5204, and the 5207.

When the system is normal and receiving AC power, the power LED is on.

Users identify themselves to the control panel by entering a code on the annunciator. When a user presses a button, the annunciator piezo beeps and the LCD prompts the user to enter a code or other relevant information.

Features

- · 2-line 16-character LCD display.
- Indicates Trouble, Alarm, Supervisory, and System Status conditions with LEDs and LCD display.
- · Each 5230 individually supervised by the FACP
- 12 to 18 AWG wire with up to 1000 ft wire runs from FACP.
- Easily set ID using four dip switches on back of unit
- Easy quick connect option to temporarily connect to the panel for programming (using PN 130294 quick connect cable).

Compatible Products

5104: 3 per Communicator

5204: 3 per FACP

5207: 7 per FACP

5128/29: Programming only

Approvals

NFPA 72 UL Listed

CSFM 7165-0559: 111

MEA 429-92-E



5230

Installation

Mounts to dual gang electrical box with the rear mounting plate.

Specifications

Electrical

Operating Voltage: 12 VDC

Current

Standby: 25 mA Alarm: 40 mA

Physical

Dimensions:

6.9" W x 4.25" H x 1" D

14.46 cm W x 10.79 cm H x 2.54 cm D

Environmental

Operating Temp:

32° to 120° F (0° to 49° C)

Maximum Wiring Distance:

1000 ft.

Ordering Information

5230 Remote Annunciator

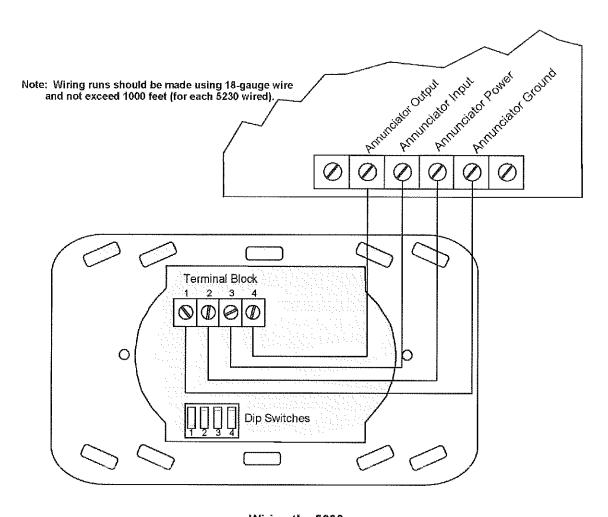
Accessories

130294 Quick connect cable

5230 Remote Annunciator

Engineering Specifications

The contractor shall furnish and install where indicated on the plans, the Model 5230 Remote Annunciator. Module shall be of a LCD type with a 2X16 display. Module shall be capable of remote programming as well as providing alarm, trouble information along with resetting of alarms and silencing of trouble and alarm conditions. Module ID shall be programmed with a 4 position DIP. The control shall be capable of supporting a minimum of 3 supervised 5230. Module shall be designed to mount on a single or dual gang electrical box with 18 gauge to 14 gauge wire.



Wiring the 5230



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 more information, contact Silent Knight 12 Clintonville Road, Northford, CT 06472-1610. Phone: (800) 328-0103, Fax: (203) 484-7118. For Technical Support, Please call 800-446-6444. www.silentknight.com

MADE IN AMERICA

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PS-DA and PS-SA Conventional Pull-stations



Easy to Install and Operate

The PS-DA/PS-SA Pull Stations are non-coded manual pull stations which provide a Fire Alarm Control Panel (FACP) with a single alarm initiating input signal. The PS-DA/PS-SA pull stations includes both single-action and dual-action models equipped with key lock / reset. It was designed to meet

multiple applications with the installer and end-user in mind. Its innovative design, durable construction, and multiple mounting options make the PS-DA and PS-SA simple to install, maintain, and operate.

Operation

The single-action pull-station is activated by a single pull-down of the alarm handle. The dual-action versions require pushing in the handle, then pulling the handle down for activation. The PS-DA/PS-SA manual pull stations are UL listed and meet the ADA requirement of a 5-lbs. maximum pull force to activate. Operating instructions are molded into the handle along with Braille text. Molded terminal numbers can be found adjacent to the wiring terminals.

Models:

PS-SA- Single action with 'pigtail' connections and a key lock reset. Pigtail wires are provided for connection to the Fire Alarm Control Panel's (FACP) initiation circuit.

PS-DA - Dual action model with screw terminal connections and a key lock reset.

PS-DAH - Same as PS-DA except with hex lock reset.

PS-DALOB - Same as PS-DA with "outdoor use" listing. Includes SB-I/O backbox and sealing gasket.







PS-DA

PS-DASP - Same as PS-DA except with both English and Spanish operating instructions.

Features:

- UL Listed
- **CSFM Listed**
- Meets ADA requirements
- Operating instructions are molded into the handle along with Braille text.
- · Made of durable Lexan
- Available in Spanish
- Key resettable
- Easy to Install and operate
- · Single or dual action
- Surface mount box available



PS-DASP

Specification:

Dimensions: Height: Width:	5-1/2" (13.97 cm) 4" (10.16 cm)
Depth:	1-7/16" (3.65 cm)
Operating	
temperature:	32°F to 120°F
	(0°C to 49°C)
Electrical:	
Switch Contact	
Rating:	0.25 A @ 30 VAC or VDC

Accessories:

SB-I/O	
SB-I/O	Surface Mount Back-box
BG-TR	Trim Ring

PS-DA and PS-SA Conventional Pull-Stations



Engineering Specification

Manual Fire Alarm Stations shall be non-code, with a key-operated reset lock in order that they may be tested, and so designed that after actual Emergency Operation, they cannot be restored to normal except by use of a key. An operated station shall automatically condition itself so as to be visually detected as activated. Manual stations shall be constructed of red colored LEXAN® (or polycarbonate equivalent) with clearly visible operating instructions provided on the cover. The word FIRE shall appear on the front of the stations in white letters, 1.00 inches (25.4 mm) or larger.* Stations shall be suitable for surface mounting on matching back-box SB-10; or semi-flush mounting on a standard single-gang, double-gang, or 4" (10.16 cm) square electrical box, and shall be installed within the limits defined by the Americans with Disabilities Act (ADA) or per national/local requirements. Manual Stations shall be Underwriters Laboratories listed.

*NOTE: The words "FIRE/FUEGO" on the PS-DASP shall appear on the front of the station in white letters, approximately 3/4" high.





PS-DA Front View

PS-SA Rear View

PS-DA Rear View





100 Series™ Low-Profile Plug-in Smoke Detectors



System Sensor 100 Series Plug-in Smoke Detectors offer superb performance and reliability in a profile which is just 2" (5.1 cm) deep.

Features

- · Sleek, low-profile design
- · Compatible with 400 Series product
- Two LEDs blink in standby, providing 360° visibility
- · Broad range of adapter bases available with built-in shorting spring
- · Hand-held sensitivity reader available

Model 2151 (photoelectric sensor) and model 2151T (photoelectric sensor with thermal) can be used with a variety of adapter bases in several wiring configurations and voltages. Other features include: low current draw, stable performance in high air velocities, built-in tamper resistant base design, remote LED option, removable cover and built-in test switch.

The 100 series is designed to meet the performance criteria designated by UL. The sensing chamber is sealed against back pressure air flow. The chamber top is covered by a one piece molded screen which minimizes the entry of dirt and insects. This screen can be removed for cleaning. Additional key features include a variety of mounting bases and a full line of accessories.

All 100 Series photoelectric smoke detectors contain a unique optical sensing chamber designed to sense smoke particles produced by a wide range of combustion sources. A custom integrated circuit incorporates signal processing to reduce false alarms.

Model 2151 photoelectric detector's unique optical sensing chamber is engineered to sense smoke by a wide range of combustion sources. Dual electronic thermistors add 135°F fixed temperature thermal sensing on model 2151T.

Agency Listings











100 Series Plug-in Smoke Detector Specifications

Operating Voltage/Alarm Current	See Adapter Base Selection Guide following
Standby Current	120μA Standby (when mounted in a B110LP base)
Sensitivity	1 – 3.18%/ft.
Height	2.0" in B401
Diameter	4.1" installed in B401; 6.2" installed in B110LP
Shipping Weight	5.2 oz
Construction	Flame retardant thermoplastic
Temperature	Photo: 32°F to 120°F (0° to 49°C); Photo/thermal: 32°F to 100°F (0° to 38°C)
UL Listed Velocity Range	Photo: 0 – 3000 fpm (0 – 15.2 m/s)
Humidity Range	10% – 93% RH non-condensing
Smoke Detector Spacing	On smooth ceilings (as defined in NFPA 72), spacing of 30 feet (900 sq. ft.) may be used as a guide. Other spacing may be used depending on ceiling height, high air movements, and other conditions or response requirements.

Base Model Number	Loop Type	Current Limit Resistor	Contact Type	Nominal Voltage	Current Draw on Alarm (mA)	
B110LP	2-wire*	No		12/24VDC	10-130 [†]	
B110RLP	2-wire*	Yes	_	24VDC	10-62	
B112LP	4-wire	Yes	Form A&C	24VDC	17-36	
B114LP	4-wire	Yes	Form A&C + A Supervisory	120VAC	75 mA AC Max	
B116LP	2-wire*	No	Form C	24VDC	20-100 [†]	
B401 ⁺⁺	2-wire*	No	_	12/24VDC	10-130 [†]	

^{*}Functionality contingent on panel compatibility †Must be limited by control panel ††Flangeless base

Relay Contact Ratings:	Resistive or Inductive (60% power factor) load.	
Form A:	2.0A at 30 VAC/DC	
Form C:	0.6A at 110VDC, 2.0A at 30VDC	
	1.0A at 125VAC 2.0A at 30VAC	

Junction Box Selection Guide*							
Base Model Number	Single Gang	3½" Octagon	4" Octagon	4" Square	50 mm	60 mm	75 mm
B401	No	No	No	No	Yes	Yes	No
B110LP/RLP	Yes	Yes	Yes	Yes	No	No	No
B112LP/B116LP	Yes	Yes	Yes	Yes	Yes	Yes	Yes
B114LP	No	No	Yes	Yes	No	No	No

 $^{^*}$ Box depth contingent on base and wire size. Refer to National Electrical Code or local applicable codes for appropriate recommendations.

Ordering Information

Part No.	Description
2151	Low-profile photoelectric detector. Must be mounted to one of the B100 Series or B400 Series bases listed in the Adapter Base Selection Guide.
2151T	Low-profile photoelectric detector with thermal. Must be mounted to one of the B100 Series or B400 Series bases listed in the Adapter Base Selection Guide.
Accessories	
F110	Accessory Flange Ring for 6"Base
RA100Z	Remote annunciator for 2 or 4 wire systems, 3–32V. Fits standard single gang electrical box.
SENS-RDR	Hand-held sensitivity reader.
SMB600	Surface mounting kit (flanged)
EOLR-1	End of line relay for power supervision, 12/24 VDC systems.
M02-04-01	Test magnet.
M02-09-00	Test magnet with 32" telescoping handle.
XR-2B	Detector removal tool. Allows installation and/or removal of 100 Series detector heads from base in high ceiling installations when used with XP-4.
XP-4	Extension pole for XR-2B. Comes in three 5 ft, sections.
C58-227-01	Replacement dust cover for 100 Series smoke detectors.





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

SpectrAlert® Advance audible visible notification products are rich with features quaranteed to cut installation times and maximize profits.





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 15/75 candela
- · Field-selectable candela settings on wall units: 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, and 185
- · Horn rated at 88+ dBA at 16 volts
- · Rotary switch for horn tone and three volume selections
- · Universal mounting plate for wall units
- Mounting plate shorting spring checks wiring continuity before device installation
- · Electrically Compatible with legacy SpectrAlert devices
- · Compatible with MDL sync module
- · Listed for ceiling or wall mounting

The SpectrAlert Advance series offers the most versatile and easy-to-use line of horns, strobes, and horn strobes in the industry. With white and red plastic housings, wall and ceiling mounting options, and plain and FIRE-printed devices, SpectrAlert Advance can meet virtually any application requirement,

Like the entire SpectrAlert Advance product line, 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, SpectrAlert Advance utilizes a universal mounting plate 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 three volume selections.

Agency Listings









7125-1653:186 (indoor strobes) 7125-1653-168 (indoor strobes) 7125-1653-188 (horn strobes) 7135-1653-189 (horns, chimes)

SpectrAlert Advance Specifications

Architect/Engineer Specifications

Genera

SpectrAlert Advance horns, 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, SpectrAlert Advance 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 and 17.5 volts; 24-volt-rated notification appliance circuit outputs shall operate between 16 and 33 volts. Indoor SpectrAlert Advance 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, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, and 185.

Strobe

The strobe shall be a System Sensor SpectrAlert Advance 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 SpectrAlert Advance 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 three 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. On four-wire products, the strobe shall be powered independently of the sounder. 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 MDL listed to UL 464 and shall be approved for fire protective service. The module shall synchronize SpectrAlert 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 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/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/FWR 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)
Input Terminal Wire Gauge	12 to 18 AWG
Wall-Mount Dimensions (including lens)	5.6"L × 4.7 "W × 2.5 "D (142 mm L × 119 mm W × 64 mm D)
Horn Dimensions	5.6"L × 4.7 "W × 1.3 "D (142 mm L × 119 mm W × 33 mm D)
Wall-Mount Back Box Skirt Dimensions (BBS-2, BBSW-2)	5.9"L × 5.0"W × 2.2"D (151 mm L × 128 mm W × 56 mm D)
Wall-Mount Trim Ring Dimensions (sold as a 5 pack) (TR-HS, TRW-HS)	5.7"L × 4.8"W × 0.35"D (145 mm L × 122 mm W × 9 mm D)

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 15/75 cd.

UL Current Draw Data

	Candela	8-17.5	Volts	16-33 Volts		
		DC	FWR	DC	FWF	
Standard	15	123	128	66	71	
Can <mark>dela</mark> Range	15/75	142	148	77	81	
	30	NA	NA	94	96	
	75	NA	NA	158	153	
	95	NA	NA	181	176	
	110	NA	NA	202	195	
	115	NA	NA	210	205	
High	135	NA	NA	228	207	
Candela	150	NA	NA	246	220	
Range	177	NA	NA	281	251	
	185	NA	NA	286	258	

		8-17.5	Volts	16-33 Volts		
Sound Pattern	dB	DC	FWR	DC	FWR	
Temporal	High	57	55	69	75	
Temporal	Medium	44	49	58	69	
Temporal	Low	38	44	44	48	
Non-temporal	High	57	56	69	75	
Non-temporal	Medium	42	50	60	69	
Non-temporal	Low	41	44	50	50	
Coded	High	57	55	69	75	
Coded	Medium	44	51	56	69	
Coded	Low	40	46	52	50	

DC Input	8-17.5 V	olts/	16-33 V	16–33 Volts					
	15	15/75	15	15/75	30	75	95	110	115
Temporal High	137	147	79	90	107	176	194	212	218
Temporal Medium	132	144	69	80	97	157	182	201	210
Temporal Low	132	143	66	77	93	154	179	198	207
Non-Temporal High	141	152	91	100	116	176	201	221	229
Non-Temporal Medium	133	145	75	85	102	163	187	207	216
Non-Temporal Low	131	144	68	79	96	156	182	201	210
FWR Input									
Temporal High	136	155	88	97	112	168	190	210	218
Temporal Medium	129	152	78	88	103	160	184	202	206
Temporal Low	129	151	76	86	101	160	184	194	201
Non-Temporal High	142	161	103	112	126	181	203	221	229
Non-Temporal Medium	134	155	85	95	110	166	189	208	216
Non-Temporal Low	132	154	80	90	105	161	184	202	211

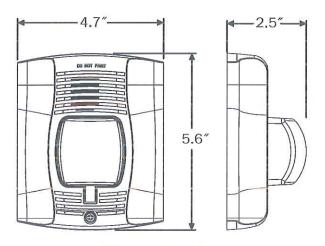
DC Input	16-33 \	/olts				16–33 Volts			
	135	150	177	185	FWR Input	135	150	177	185
Temporal High	245	259	290	297	Temporal High	215	231	258	265
Temporal Medium	235	253	288	297	Temporal Medium	209	224	250	258
Temporal Low	232	251	282	292	Temporal Low	207	221	248	256
Non-Temporal High	255	270	303	309	Non-Temporal High	233	248	275	281
Non-Temporal Medium	242	259	293	299	Non-Temporal Medium	219	232	262	267
Non-Temporal Low	238	254	291	295	Non-Temporal Low	214	229	256	262

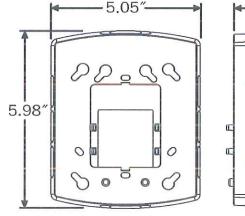
Horn Tones and Sound Output Data

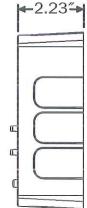
			8–17.5 16–33 Volts Volts		24-V	olt Nomir	ıal			
Switch					Volts		Reverberant		Anechoic	
Position	Sound Pattern	dB	DC	FWR	DC	FWR	DC	FWR	DC	FWF
1	Temporal	High	78	78	84	84	88	88	99	98
2	Temporal	Medium	74	74	80	80	86	86	96	96
3	Temporal	Low	71	73	76	76	83	80	94	89
4	Non-Temporal	High	82	82	88	88	93	92	100	100
5	Non-Temporal	Medium	78	78	85	85	90	90	98	98
6	Non-Temporal	Low	75	75	81	81	88	84	96	92
7 [†]	Coded	High	82	82	88	88	93	92	101	101
8 [†]	Coded	Medium	78	78	85	85	90	90	97	98
9 [†]	Coded	Low	75	75	81	81	88	85	96	92

[†]Settings 7, 8, and 9 are not available on 2-wire horn strobes.

SpectrAlert Advance Dimensions







Wall-mount horn strobes

Wall back box skirt

SpectrAlert Advance Ordering Information

Model	Description
Wall Ho	rn Strobes
P2R*†	2-Wire Horn Strobe, Standard cd [‡] , Red
P2RH*	2-Wire Horn Strobe, High cd, Red
P2W*	2-Wire Horn Strobe, Standard cd, White
P2WH*	2-Wire Horn Strobe, High cd, White
P4R*	4-Wire Horn Strobe, Standard cd, Red
P4RH	4-Wire Horn Strobe, High cd, Red
P4W	4-Wire Horn Strobe, Standard cd, White
Wall Str	obes
SR*†	Strobe, Standard cd, Red
SRH*†	Strobe, High cd, Red
SW*	Strobe, Standard cd, White
SWH*	Strobe, High cd, White

Model	Description
Horns	
HR	Horn, Red
HW	Horn, White
Accesso	ries
BBS-2	Back Box Skirt, Wall, Red
BBSW-2	Back Box Skirt, Wall, White
TR-HS	Trim Ring, Wall, Red
TRW-HS	Trim Ring, Wall White

Notes:

- * Add "-P" to model number for plain housing (no "FIRE" marking on cover), e.g., P2R-P.
- † Add "-SP" to model number for "FUEGO" marking on cover, e.g., P2R-SP.
- #"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.





Indoor Selectable-**Output Strobes and Horn Strobes for Ceiling Applications**

SpectrAlert® Advance audible visible notification products are rich with features guaranteed to cut installation times and maximize profits.





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 15/75 candela
- Field-selectable candela settings on ceiling units: 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, and 185
- · Horn rated at 88+ dBA at 16 volts
- · Rotary switch for horn tone and three volume selections
- · Universal mounting plate for ceiling units
- · Mounting plate shorting spring checks wiring continuity before device installation
- · Electrically Compatible with legacy SpectrAlert devices
- · Compatible with MDL sync module
- Listed for ceiling or wall mounting

The SpectrAlert Advance series offers the most versatile and easy-to-use line of horns, strobes, and horn strobes in the industry. With white and red plastic housings, wall and ceiling mounting options, and plain and FIRE-printed devices, SpectrAlert Advance can meet virtually any application requirement.

Like the entire SpectrAlert Advance product line, ceiling-mount 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, SpectrAlert Advance utilizes a universal mounting plate 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 three volume selections.

Agency Listings











7125-1653:186 (indcor strooes) 7125-1653:188 (horn strobes chime strobes) 7135-1653:189 (horns, chimes)

SpectrAlert Advance Specifications

Architect/Engineer Specifications

Genera

SpectrAlert Advance 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, SpectrAlert Advance 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 9 and 17.5 volts; 24-volt-rated notification appliance circuit outputs shall operate between 17 and 33 volts. Indoor SpectrAlert Advance 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, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, and 185.

Strobe

The strobe shall be a System Sensor SpectrAlert Advance 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 SpectrAlert Advance 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 three 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. On four-wire products, the strobe shall be powered independently of the sounder. 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 MDL listed to UL 464 and shall be approved for fire protective service. The module shall synchronize SpectrAlert 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 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/Electrical Specifications	NAME OF STREET OF STREET, STRE
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/FWR 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)
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 Back Box Skirt Dimensions (BBSC-2, BBSCW-2)	7.1" diameter × 2.2" high (180 mm diameter × 57 mm high)
Ceiling-Mount Trim Ring Dimensions (sold as a 5 pack) (TRC-HS, TRCW-HS)	6.9 diameter \times 0.35 high (175 mm diameter \times 9 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 15/75 cd.

UL Current Draw Data

UL Max. Strobe Current	Draw (mA	RMS)		A SHARE						
				8-17.5 Volts				16-33 V	olts	
	(Candela		DC	FWR			DC		FWF
Standard Candela Range	e 1	15		123	128			66		71
	1	5/75		142	148			77		81
	3	30		NA	NA			94		96
	7	75		NA	NA			158		153
	9	35		NA	NA			181		176
	1	10		NA	NA			202		195
	1	15		NA	NA			210		205
High	1	35		NA	NA			228		207
Candela Range	1	50		NA	NA			246		220
	1	77		NA	NA			281		251
	1	185		NA	NA			286		258
UL Max. Current Draw (m	nA RMS), 2	2-Wire Horn	Strobe, St	andard Can	dela Range (15–1	15 cd)				
	8-17.5	Volts	16-	33 Volts						
DC Input	15	15/75	15	15/7	75 30	75	95	5	110	115
Temporal High	137	147	79	90	107	176	19	94	212	218
Temporal Medium	132	144	69	80	97	157	18	32	201	210
Temporal Low	132	143	66	77	93	154	17	' 9	198	207
Non-Temporal High	141	152	91	100	ii veed	176	20)1	221	229
Non-Temporal Medium	133	145	75	85	102	163	18	37	207	216
Non-Temporal Low	131	144	68	79	96	156	18	32	201	210
FWR Input										
Temporal High	136	155	88	97	112	168	19		210	218
Temporal Medium	129	152	78	88	103	160	18	34	202	206
Temporal Low	129	151	76	86	101	160	18		194	201
Non-Temporal High	142	161	103	319,411461	1100-1100	181	20)3	221	229
Non-Temporal Medium	134	155	85	95	110	166	18	CORE	208	216
Non-Temporal Low	132	154	80	90	105	161	18	34	202	211
UL Max. Current Draw (m			Strobe, Hi	gh Candela	Range (135–185	cd)				n alkan
	16–33 Vo	alternation and the second	Dagle Service	Color and their			16-33 \	NAME OF TAXABLE PARTY.		The bounded by a
DC Input	135	150	177	185	FWR Input		135	150	177	185
Temporal High	245	259	290	297	Temporal High		215	231	258	265
Temporal Medium	235	253	288	297	Temporal Mediur	m	209	224	250	258
Temporal Low	232	251	282	292	Temporal Low		207	221	248	256
Non-Temporal High	255	270	303	309	Non-Temporal H		233	248	275	281
Non-Temporal Medium	242	259	293	299	Non-Temporal M	edium	219	232	262	267

Horn Strobe Tones and Sound Output Data

254

291

295

238

Non-Temporal Low

Horn Strob	e Output (dBA)										
			8–17.5 Volts		16-33	16-33		24-Volt Nominal			
Switch					Volts		Reverberant		Anechoic		
Position	Sound Pattern	dB	DC	FWR	DC	FWR	DC	FWR	DC	FWR	
1	Temporal	High	78	78	84	84	88	88	99	98	
2	Temporal	Medium	74	74	80	80	86	86	96	96	
3	Temporal	Low	71	73	76	76	83	80	94	89	
4	Non-Temporal	High	82	82	88	88	93	92	100	100	
5	Non-Temporal	Medium	78	78	85	85	90	90	98	98	
6	Non-Temporal	Low	75	75	81	81	88	84	96	92	
7 [†]	Coded	High	82	82	88	88	93	92	101	101	
8 [†]	Coded	Medium	78	78	85	85	90	90	97	98	
9 [†]	Coded	Low	75	75	81	81	88	85	96	92	

Non-Temporal Low

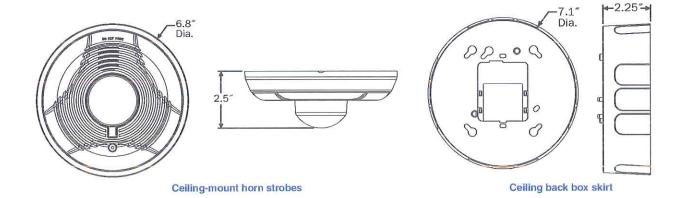
214

229

256

262

[†]Settings 7, 8, and 9 are not available on 2-wire horn strobes.



SpectrAlert Advance Ordering Information

Model	Description
Ceiling F	Iorn Strobes
PC2R*	2-Wire Horn Strobe, Standard cd, Red
PC2RH	2-Wire Horn Strobe, High cd, Red
PC2W*†	2-Wire Horn Strobe, Standard cd, White
PC2WH*	2-Wire Horn Strobe, High cd, White
PC4R	4-Wire Horn Strobe, Standard cd, Red
PC4RH	4-Wire Horn Strobe, High cd, Red
PC4W	4-Wire Horn Strobe, Standard cd, White
-	

Model	Description
Ceiling S	Strobes
SCR	Strobe, Standard cd, Red
SCRH	Strobe, High cd, Red
SCW*	Strobe, Standard cd, White
SCWH	Strobe, High cd, White
Accesso	ries
BBSC-2	Back Box Skirt, Ceiling, Red
	Back Box Skirt, Ceiling, White
TRC-HS	Trim Ring, Ceiling, Red
TRCW- HS	Trim Ring, Ceiling, White

Notes

- * Add "-P" to model number for plain housing (no "FIRE" marking on cover), e.g., P2R-P.
- † Add "-SP" to model number for "FUEGO" marking on cover, e.g., P2R-SP.
- #"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.





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

SpectrAlert® Advance audible visible notification products are rich with features guaranteed to cut installation times and maximize profits.





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 15/75 candela
- Field-selectable candela settings on wall units: 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, and 185
- · Horn rated at 88+ dBA at 16 volts
- · Rotary switch for horn tone and three volume selections
- · Universal mounting plate for wall units
- · Mounting plate shorting spring checks wiring continuity before device installation
- · Electrically Compatible with legacy SpectrAlert devices
- · Compatible with MDL sync module
- · Listed for ceiling or wall mounting

The SpectrAlert Advance series offers the most versatile and easy-to-use line of horns, strobes, and horn strobes in the industry. With white and red plastic housings, wall and ceiling mounting options, and plain and FIRE-printed devices, SpectrAlert Advance can meet virtually any application requirement.

Like the entire SpectrAlert Advance product line, 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, SpectrAlert Advance utilizes a universal mounting plate 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 three volume selections.

Agency Listings











7125-1653:186 (indoor strobes) 7125-1653:188 (horn strobes chime strobes) 7135-1653-189 (horns, chimes

SpectrAlert Advance Specifications

Architect/Engineer Specifications

Genera

SpectrAlert Advance horns, 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, SpectrAlert Advance 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 and 17.5 volts; 24-volt-rated notification appliance circuit outputs shall operate between 8 and 17.5 volts; 24-volt-rated notification appliance circuit outputs shall operate between 16 and 33 volts. Indoor SpectrAlert Advance 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, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, and 185.

Strobe

The strobe shall be a System Sensor SpectrAlert Advance 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 SpectrAlert Advance 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 three 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. On four-wire products, the strobe shall be powered independently of the sounder. 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 MDL listed to UL 464 and shall be approved for fire protective service. The module shall synchronize SpectrAlert 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 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.

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/FWR 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)
Input Terminal Wire Gauge	12 to 18 AWG
Wall-Mount Dimensions (including lens)	5.6"L × 4.7"W × 2.5"D (142 mm L × 119 mm W × 64 mm D)
Horn Dimensions	5.6"L × 4.7"W × 1.3"D (142 mm L × 119 mm W × 33 mm D)
Wall-Mount Back Box Skirt Dimensions (BBS-2, BBSW-2)	5.9"L × 5.0"W × 2.2"D (151 mm L × 128 mm W × 56 mm D)
Wall-Mount Trim Ring Dimensions (sold as a 5 pack) (TR-HS, TRW-HS)	5.7"L × 4.8"W × 0.35"D (145 mm L × 122 mm W × 9 mm D)

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 15/75 cd.

UL Current Draw Data

		8-17.5	Volts	16-33 Volts		
	Candela	DC	FWR	DC	FWR	
Standard	15	123	128	66	71	
Candela Range	15/75	142	148	77	81	
	30	NA	NA	94	96	
	75	NA	NA	158	153	
	95	NA	NA	181	176	
	110	NA	NA	202	195	
	115	NA	NA	210	205	
High	135	NA	NA	228	207	
Candela Range	150	NA	NA	246	220	
	177	NA	NA	281	251	
	185	NA	NA	286	258	

		8-17.5	Volts	16-33 Volts		
Sound Pattern	dB	DC	FWR	DC	FWR	
Temporal	High	57	55	69	75	
Temporal	Medium	44	49	58	69	
Temporal	Low	38	44	44	48	
Non-temporal	High	57	56	69	75	
Non-temporal	Medium	42	50	60	69	
Non-temporal	Low	41	44	50	50	
Coded	High	57	55	69	75	
Coded	Medium	44	51	56	69	
Coded	Low	40	46	52	50	

	8-17.5 Volts		16-33 V	olts					_
DC Input	15	15/75	15	15/75	30	75	95	110	115
Temporal High	137	147	79	90	107	176	194	212	218
Temporal Medium	132	144	69	80	97	157	182	201	210
Temporal Low	132	143	66	77	93	154	179	198	207
Non-Temporal High	141	152	91	100	116	176	201	221	229
Non-Temporal Medium	133	145	75	85	102	163	187	207	216
Non-Temporal Low	131	144	68	79	96	156	182	201	210
FWR Input									
Temporal High	136	155	88	97	112	168	190	210	218
Temporal Medium	129	152	78	88	103	160	184	202	206
Temporal Low	129	151	76	86	101	160	184	194	201
Non-Temporal High	142	161	103	112	126	181	203	221	229
Non-Temporal Medium	134	155	85	95	110	166	189	208	216
Non-Temporal Low	132	154	80	90	105	161	184	202	211

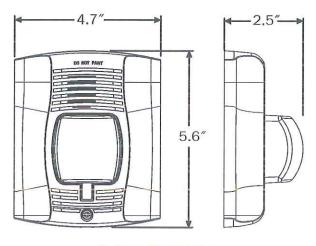
	16–33 Volts					16-33 Volts				
DC Input	135	150	177	185	FWR Input	135	150	177	185	
Temporal High	245	259	290	297	Temporal High	215	231	258	265	
Temporal Medium	235	253	288	297	Temporal Medium	209	224	250	258	
Temporal Low	232	251	282	292	Temporal Low	207	221	248	256	
Non-Temporal High	255	270	303	309	Non-Temporal High	233	248	275	281	
Non-Temporal Medium	242	259	293	299	Non-Temporal Medium	219	232	262	267	
Non-Temporal Low	238	254	291	295	Non-Temporal Low	214	229	256	262	

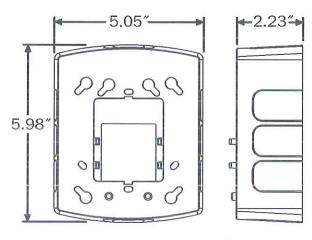
Horn Tones and Sound Output Data

			8–17.5 Volts		16–33 Volts		24-Volt Nominal			
Switch							Reverberant		Anechoic	
Position	Sound Pattern	dB	DC	FWR	DC	FWR	DC	FWR	DC	FWF
1	Temporal	High	78	78	84	84	88	88	99	98
2	Temporal	Medium	74	74	80	80	86	86	96	96
3	Temporal	Low	71	73	76	76	83	80	94	89
4	Non-Temporal	High	82	82	88	88	93	92	100	100
5	Non-Temporal	Medium	78	78	85	85	90	90	98	98
6	Non-Temporal	Low	75	75	81	81	88	84	96	92
7 [†]	Coded	High	82	82	88	88	93	92	101	101
8 [†]	Coded	Medium	78	78	85	85	90	90	97	98
9 [†]	Coded	Low	75	75	81	81	88	85	96	92

[†]Settings 7, 8, and 9 are not available on 2-wire horn strobes.

SpectrAlert Advance Dimensions





Wall-mount horn strobes

Wall back box skirt

SpectrAlert Advance Ordering Information

Model	Description
Wall Ho	rn Strobes
P2R*†	2-Wire Horn Strobe, Standard cd‡, Red
P2RH*	2-Wire Horn Strobe, High cd, Red
P2W*	2-Wire Horn Strobe, Standard cd, White
P2WH*	2-Wire Horn Strobe, High cd, White
P4R*	4-Wire Horn Strobe, Standard cd, Red
P4RH	4-Wire Horn Strobe, High cd, Red
P4W	4-Wire Horn Strobe, Standard cd, White
Wall Str	obes
SR*†	Strobe, Standard cd, Red
SRH*†	Strobe, High cd, Red
SW*	Strobe, Standard cd, White
SWH*	Strobe, High cd, White

Model	Description
Homs	
HR	Horn, Red
HW	Horn, White
Accesso	ries
BBS-2	Back Box Skirt, Wall, Red
BBSW-2	Back Box Skirt, Wall, White
TR-HS	Trim Ring, Wall, Red
TRW-HS	Trim Ring, Wall White

Notes

- * Add "-P" to model number for plain housing (no "FIRE" marking on cover), e.g., P2R-P.
- † Add "-SP" to model number for "FUEGO" marking on cover, e.g., P2R-SP.
- # "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.

