SpectrAlert® Advance

Gamewell FCI FIRE CONTROL INSTRUMENTS

by Honeywell

Description

SpectrAlert® Advance selectable-output horns, strobes and horn/strobes are rich with features guaranteed to decrease installation times and maximize profits. The SpectrAlert Advance Series of notification appliances is designed to simplify your installations that offer the following features:
- Plug-in designs.
- Instant feedback messages to ensure correct installation of individual devices.
- Eleven field-selectable candela settings for wall, ceiling strobes and horn/strobes.

Installation
More specifically, to install the Advance products, do the following:
1. Attach a universal mounting plate to a four-inch square, four-inch octagon, or double-gang junction box.
   The two-wire mounting plate attaches to a single-gang junction box.
2. Connect the notification appliance circuit wiring to the SEMS terminals on the mounting plate.
3. To attach the horn, strobe, or horn/strobe to the mounting plate, insert the product's tabs in the mounting plate's grooves.
4. Rotate the device into position, locking the product's pins into the mounting plate's terminals.
5. The device temporarily holds in place with a catch until you secure it with a captured mounting screw.
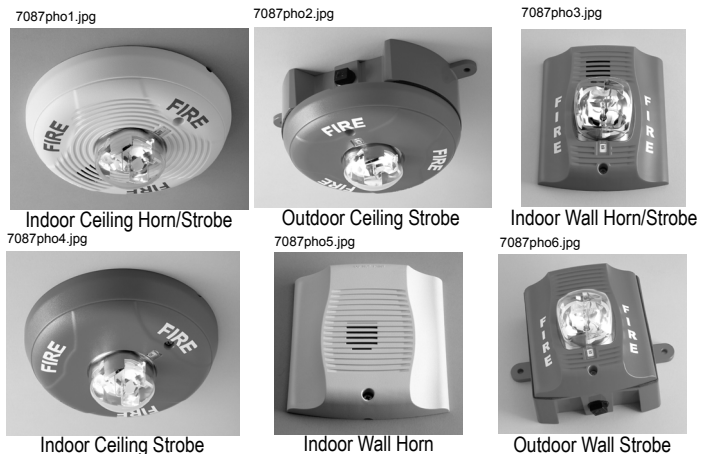
SpectrAlert Advance products offer the following options:
- 12 or 24 volts.
- At 24 volts, 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, or 185 candela by way of rear-mounted slide switch and front viewing window.
- Horn tones and volume by way of rotary switch.

The SpectrAlert Advance series includes outdoor notification appliances. Outdoor strobes and horn/strobes (two-wire and four-wire) are available for wall or ceiling. Outdoor horns are available for wall only. All System Sensor outdoor products are rated between –40°F and 151°F (–40°C and 66°C) in wet or dry applications.

Selectable Output Notification Appliances

7087pho1.jpg
Indoor Ceiling Horn/Strobe

7087pho2.jpg
Outdoor Ceiling Strobe

7087pho3.jpg
Indoor Wall Horn/Strobe

7087pho4.jpg
Indoor Ceiling Strobe

7087pho5.jpg
Indoor Wall Horn

7087pho6.jpg
Outdoor Wall Strobe

Features

- Provides a plug-in design.
- Comprises an assortment of outdoor wall and ceiling products.
- Has tamper-resistance capability with minimal intrusion into the backbox.
- Offers the same mounting plate for wall- and ceiling-mount units.
- Includes a shorting spring on the mounting plate for a continuity check before installation and a captive mounting screw.
- Field-selectable candela settings on wall or ceiling units: 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, 185.
- Contains an automatic selection of 12 or 24 volt operation at 15 and 15/75 candela.
- Outdoor products rated from –40°F and 151°F (–40°C and 66°C).
- Horn rated at 88+ dbA at 16 volts.
- Provides a rotary switch for tone selection.
- Offers three horn volume settings.
- Electrically compatible with SpectrAlert® products.

SIGNALING

UL LISTED
S4011

MEA Approved **FDNY**
452-05-E 7125-1653:0188

Available Models:
- Indoor wall-mount: horn, strobe, 2-wire horn/strobe, 4-wire horn/strobe.
- Indoor ceiling-mount: strobe, 2-wire horn/strobe, 4-wire horn/strobe.
- Outdoor wall-mount: horn, strobe, 2-wire horn/strobe, 4-wire horn/strobe.
- Outdoor ceiling-mount: strobe, 2-wire horn/strobe, 4-wire horn/strobe.

Engineering Specifications

SpectrAlert Advance horns, strobes, and horn/strobes shall mount on a standard 4.0" x 4.0" x 1.5" (10.16 x 10.16 x 3.81 cm) backbox, 4.0" (10.16 cm) octagonal backbox, or a double-gang backbox. Two-wire products shall also mount on a single-gang 2.0" x 4.0" x 1.875" (5.08 x 10.16 x 4.763 cm) backbox. 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°F and 120°F (0°C and 49°C) 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, 185.

Strobe

The strobe shall be a System Sensor SpectrAlert Advance Model _____ Listed to UL STD 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 Standards 1971 and 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 3 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.

Outdoor Products

SpectrAlert Advance outdoor horns, strobes and horn/strobes shall be listed for outdoor use by UL and shall operate between –40°F and 151°F (–40°C and 66°C). The products shall be listed for use with a System Sensor outdoor/weatherproof backbox with half-inch and three-fourths-inch conduit entries.

Synchronization Module

The module shall be a System Sensor Sync•Circuit _____ Listed to UL STD 464 and shall be approved for fire protective service. The module shall synchronize SpectrAlert strobes at 1 Hz and horns at Temporal 3. 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 4.688" x 4.688" x 2.125" (11.906 x 11.906 x 5.398 cm) backbox. 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 the modules control. The module shall not operate on a coded power supply.

Operating Specifications

Standard operating temperature:	32° F to 120° F (0° C to 49° C)
K Series operating temperature:	-40° F and 151° F (-40° C and 66° C)
Humidity range:	10% to 93% non-condensing (indoor products).
Strobe flash rate:	1 flash per second.
Nominal voltage:	regulated 12 VDC/FWR or regulated 24 VDC.FWR. **Note:** Full Wave Rectified (FWR) voltage is a non-regulated, time-varying power source that is used on some power supply and panel outputs.
Operating voltage range:	8 V to 17.5 V (12 V nominal); or 16 V to 33 V (24 V nominal). **Note:** P, S, PC, and SC products will operate at 12 V nominal only for 15 cd and 15/75 cd.
Input terminal wire gauge:	12 to 18 AWG (3.31 to 0.821 mm2).
Ceiling-mount dimensions (including lens):	6.8" diameter x 2.5" deep (17.3 diameter x 6.4 deep cm)
Wall-mount dimensions (including lens):	5.6" H x 4.7" W x 2.5" D (14.2 H x 11.9 W x 6.4 D cm)
Horn dimensions:	5.6" H x 4.7" W x 1.3" D (14.2 H x 11.9 W x 3.3 D cm)

Strobe Current Draw, UL Maximum (mA RMS)

Candela		8 - 17.5 V		16 - 33 V	
		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

Horn Current Draw, UL Maximum (mA RMS)

Sound Pattern	dB	8 - 17.5 V		16 - 33 V	
		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

Horn and Horn/Strobe Rotary Switch Setting

Setting	Repetition Rate	dB Level
1	Temporal Horn	High
2	Temporal horn	Medium
3	Temporal horn	Low
4	Normal horn	Low
5	Normal horn	Medium
6	Normal horn	Low
7*	Externally coded	High
8*	Externally coded	Medium
9*	Externally coded	Low

***NOTE:** Settings 7, 8 and 9 are not available on 2-wire horn/strobe

Horn and Horn/Strobe Output (dBA)

Switch Position	Sound Pattern	dB	8 - 17.5 V		16 - 33 V	
			DC	FWR	DC	FWR
1	Temporal	High	78	78	84	84
2	Temporal	Medium	74	74	80	80
3	Temporal	Low	71	73	76	76
4	Non-temporal	High	82	82	88	88
5	Non-temporal	Medium	78	78	85	85
6	Non-temporal	Low	75	75	81	81
7*	Coded	High	82	82	88	88
8*	Coded	Medium	78	78	85	85
9*	Coded	Low	75	75	81	81

***NOTE:** Settings 7, 8, and 9 are not available on 2-wire horn/strobe.

Two-Wire Horn/Strobe, *STANDARD* Candela Range (15 - 115 cd), UL Maximum Current Draw (mA RMS)

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

Two-Wire Horn/Strobe, *HIGH* Candela Range (135 - 185 cd), UL Maximum Current Draw (mA RMS)

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

Ordering Information:

Model	Description	Model	Description
WALL HORNS/STROBES		**CEILING HORN/STROBES**	
P2R	2-wire horn/strobe, standard cd, red.	**PC2R**	2-wire horn/strobe, standard cd, red.
P2RH	2-wire horn/strobe, high cd, red.	**PC2RH**	2-wire horn/strobe, high cd, red.
P2RK	2-wire horn/strobe, standard cd, red, outdoor.	**PC2RK**	2-wire horn/strobe, standard cd, red, outdoor.
P2RHK	2-wire horn/strobe, high cd, red, outdoor (includes backbox).	**PC2RHK**	2-wire horn/strobe, high cd, red, outdoor.
P2W	2-wire horn/strobe, standard cd, white.	**PC2W**	2-wire horn/strobe, standard cd, white.
P2WH	2-wire horn/strobe, high cd, white.	**PC2WH**	2-wire horn/strobe, high cd, white.
P2WK	2-wire horn/strobe, standard cd, white, outdoor, (includes backbox).	**PC4R**	4-wire horn/strobe, standard cd, red.
P4R	4-wire horn/strobe, standard cd, red.	**PC4RH**	4-wire horn/strobe, high cd, red.
P4RH	4-wire horn/strobe, high cd, red.	**PC4RK**	4-wire horn/strobe, standard cd, red, outdoor, (ceiling mount).
P4RK	4-wire horn/strobe, standard.	**PC4RHK**	4-wire horn/strobe, high cd, red, outdoor.
P4RHK	4-wire horn/strobe, high cd, red, outdoor.	**PC4W**	4-wire horn/strobe, standard cd, white.
P4W	4-wire horn/strobe, standard cd, white.	**PC4WH**	4-wire horn/strobe, high cd, white.
P4WH	4-wire horn/strobe, high cd, white.		
WALL STROBES		**CEILING STROBES**	
SR	Strobe, standard cd, red.	**SWHK**	Strobe, high cd, white, outdoor.
SRH	Strobe, high cd, red.	**SCR**	Strobe, standard cd, red.
SRK	Strobe, standard cd, red, outdoor.	**SCRH**	Strobe, high cd, red.
SRHK	Strobe, high cd, red, outdoor.	**SCRK**	Strobe, standard cd, red, outdoor.
SW	Strobe, standard cd, white.	**SCRHK**	Strobe, high cd, red, outdoor.
SWH	Strobe, high cd, white.	**SCW**	Strobe, standard cd, white.
SWK	Standard, white, outdoor	**SCHW**	Strobe, high cd, white.
SPEAKER STROBES/HORNS			
SPSCWV-P	Unmarked Speaker Strobe, ceiling-mount, standard candela, high dBA, white.	**SPWK**	Outdoor Speaker, includes backbox, wall-mounted, white.
SPSR-P	Unmarked Speaker Strobe, indoor, wall-mounted, standard candela, red.	**SR-P**	Unmarked Horn, wall-mounted, standard candela, red.
SPSR-P	Unmarked Speaker Strobe, indoor, wall-mounted, standard candela dBA, red.		
ACCESSORIES		**HORNS**	
SBBR	Backbox skirt, wall, red.	**HR**	Horn, red.
SBBW	Backbox skirt, wall, white.	**HRK**	Horn, red, outdoor.
SBBCR	Backbox skirt, ceiling, red.	**HW**	Horn, white.
SBBCW	Backbox skirt, ceiling, white.		

NOTE: "High cd" refers to strobes that include 135, 150, 177, and 185 candela settings. "Standard cd" refers to strobes that include 15, 15/75, 30, 75, 95, 110, and 115 candela settings.

GAMEWELL-FCI
12 Clintonville Road, Northford, CT 06472-1653 USA • Tel: (203) 484-7161 • Fax: (203) 484-7118
www.gamewell-fci.com
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