SpectrAlert® Advance

Selectable Output CHRA, CHWA Chimes and CHSRA, CHSWA Chime/Strobe

NOTIFIER® by Honeywell

Audio/Visual Devices

General

SpectrAlert® Advance selectable-output chimes and chime/strobes are private-mode notification appliances used to alert trained personnel to investigate possible emergency situations and to take appropriate action. Security guard and nurse workstations are ideal locations for chime products.

SpectrAlert Advance chimes and chime/strobes are rich with features guaranteed to cut installation times and maximize profits. The SpectrAlert Advance series of notification appliances is designed to simplify your installations, with features such as: plug-in designs, instant feedback messages to ensure correct installation of individual devices, and seven field-selectable candela settings for chime/strobes.

More specifically, when installing Advance products, first attach a universal mounting plate to a four-inch (10.16 cm) square, four-inch octagonal, single-gang, or double-gang junction box.

Then, connect the notification appliance circuit wiring to the SEMS terminals on the mounting plate.

Finally, attach the chime or chime/strobe to the mounting plate by inserting the product's tabs in the mounting plate's grooves. The device will rotate into position, locking the product's pins into the mounting plate's terminals. The device will temporarily hold in place with a catch until it is secured with a captive mounting screw.

SpectrAlert Advance products allow you to choose:

- 12 or 24 volts.
- At 24 volts, 15, 15/75, 30, 75, 95, 110, or 115 candela by way of rear-mounted slide-switch and front-view window.
- Chime tones and volume by way of rotary switch.

Features

- Plug-in design.
- Shorting spring on mounting plate for pre-installation continuity check.
- Captive mounting screw.
- Torx screw for tamper resistance.
- Field-selectable candela settings: 15, 15/75, 30, 75, 95, 110, 115.
- Automatic selection of 12- or 24-volt operation at 15 and 15/75 candela.
- Minimal intrusion into the backbox.
- Rotary switch for tone selection.
- Two volume settings.
- Electrically compatible with existing SpectrAlert products.

Engineering Specifications

SpectrAlert Advance chimes and chime/strobes shall mount to 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, single-gang 2.0" x 4.0" x 1.875" (5.08 x 10.16 x 4.763 cm) backbox, or double-gang backbox. A universal mounting plate shall be used for mounting products. The notification appliance circuit wiring shall terminate at the universal mounting plate. Also, SpectrAlert Advance products, when used with the Sync•Circuit™

Chime (CHWA)



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Chime/Strobe (CHSRA)

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. Chime/strobes shall have field-selectable candela settings of 15, 15/75, 30, 75, 95, 110, and 115.

CHIME/STROBE COMBINATION

The chime/strobe shall be a System Sensor SpectrAlert Advance Model _____ listed to CAN/ULC S525 and S526. The chime/strobe shall 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 chime 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.

SYNCHRONIZATION MODULE

The module shall be a System Sensor Sync•Circuit _____ listed to ULC 464 and shall be approved for fire protective service. The module shall synchronize SpectrAlert strobes at 1 Hz and chimes at Temporal 3. Also, while operating the strobes, the module shall silence the chimes on chime/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 they 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).
- **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:*** *CHS 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 mm^2).
- **Chime/strobe dimensions (including lens):** 5.6" H x 4.7" W x 2.5" D (14.2 cm H x 11.9 cm W x 6.4 cm D).
- **Chime dimensions:** 5.6" H x 4.7" W x 1.3" D (14.2 cm H x 11.9 cm W x 3.3 cm D).

Agency Listings and Approvals

The listings and approvals below apply to SpectrAlert Advance Selectable Output Chimes and Chime/Strobes. 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.

- **ULC** Listed: file S4011.
- **FM** approved.

Ordering Information

CHR: Chime, red.

CHW: Chime, white.

CHSR: Chime/strobe, red.

CHSW: Chime/strobe, white.

BBS-2: Backbox skirt, wall, red.

BBSW-2: Backbox skirt, wall white.

Current Draw, ULC Maximum (mA RMS)

Input, Pattern, dB Out	8 – 17.5 Volts		16 – 33 Volts						
	15 cd	15/75 cd	15 cd	15/75 cd	30 cd	75 cd	95 cd	110 cd	115 cd
DC, 1-Second Chime, HIGH	131	142	65	76	94	160	185	207	213
DC, 1-Second Chime, LOW	131	142	64	75	92	157	183	203	212
DC, 1/4-Second Chime, HIGH	129	142	66	75	95	159	184	205	212
DC, 1/4-Second Chime, LOW	129	142	64	74	91	155	181	204	211
DC, Temporal Chime, HIGH	125	142	64	74	91	156	181	205	211
DC, Temporal Chime, LOW	129	141	65	75	92	155	180	200	209
DC, 5-Second Whoop, HIGH	133	145	70	81	99	165	189	210	217
DC, 5-Second Whoop, LOW	130	143	66	77	95	160	186	206	214
DC, One-Time Chime	127	141	64	76	93	156	182	203	210
FWR, 1-Second Chime, HIGH	128	150	72	82	98	158	183	202	210
FWR, 1-Second Chime, LOW	127	150	71	81	97	157	182	202	210
FWR, 1/4-Second Chime, HIGH	129	149	72	82	99	160	183	203	211
FWR, 1/4-Second Chime, LOW	128	149	71	81	97	154	179	196	205
FWR, Temporal Chime, HIGH	128	148	71	81	97	157	179	199	206
FWR, Temporal Chime, LOW	125	147	71	81	97	156	180	200	206
FWR, 5-Second Whoop, HIGH	136	152	84	93	110	170	193	212	220
FWR, 5-Second Whoop, LOW	132	150	77	86	102	161	184	203	214
FWR, One-Time Chime	127	147	72	82	97	157	181	200	210

Tone Selection

Chime tone selection is accomplished by using the rotary switch on the back of the product. The current draw and sound measurements for various chime tones are listed below.

Chime Current Draw, ULC Maximum (mA RMS)

Sound Pattern	dB	8 – 17.5 Volts		16 – 33 Volts	
		DC (mA)	FWR (mA)	DC (mA)	FWR (mA)
1-Second Chime	HIGH	34	50	58	51
1-Second Chime	LOW	30	51	51	54
1/4-Second Chime	HIGH	34	51	50	50
1/4-Second Chime	LOW	31	51	50	52
Temporal Chime	HIGH	30	50	48	54
Temporal Chime	LOW	30	47	50	51
5-Second Whoop	HIGH	32	52	34	54
5-Second Whoop	LOW	30	40	34	52
One Test Chime	HIGH	48	49	50	50

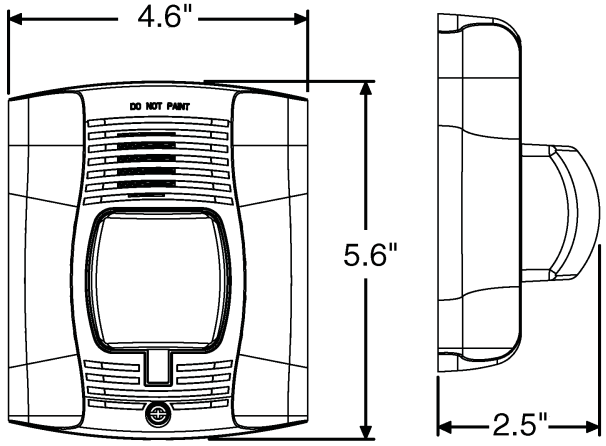
Chime Patterns

Setting	Repetition Rate	dB Out
1	1-Second Chime	HIGH
2	1-Second Chime	LOW
3	1/4-Second Chime	HIGH
4	1/4-Second Chime	LOW
5	Temporal Chime	HIGH
6	Temporal Chime	LOW
7	5-Second Whoop	HIGH
8	5-Second Whoop	LOW
9	One Test Chime	HIGH

Sound Output (dBA), Chime and Chime/Strobe

Switch Setting	Sound Pattern	dB	8 – 17.5 Volts		16 – 33 Volts	
			DC (dBA)	FWR (dBA)	DC (dBA)	FWR (dBA)
1	1-Second Chime	HIGH	82	85	85	85
2	1-Second Chime	LOW	76	79	77	77
3	1/4-Second Chime	HIGH	82	84	84	85
4	1/4-Second Chime	LOW	76	78	78	78
5	Temporal Chime	HIGH	85	90	90	93
6	Temporal Chime	LOW	79	80	80	80
7	5-Second Whoop	HIGH	87	93	92	97
8	5-Second Whoop	LOW	80	83	83	83
9	One Test Chime	HIGH	82	84	84	86

SpectrAlert Advance Chime/Strobe Dimensions



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SpectrAlert Advance Ordering Information

Model	Description
CHRA	Chime, Red
CHWA	Chime, White
CHSRA	Chime/Strobe, Red
CHSWA	Chime/Strobe, White
BBS-2	Back Box Skirt, Wall, Red
BBSW-2	Back Box Skirt, Wall, White
Add suffix "-F" for French or "-B" for Bilingual.	

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For more information, contact Notifier.
(888) 289-1114
10 Whitmore Road
Woodbridge, Ontario LZL 7Z4
www.notifier.com