



SELECTABLE OUTPUT HORNS, STROBES, AND HORN/STROBES

DESCRIPTION

The SpectrAlert Advance series of notification appliances is designed to simplify installations, with features such as plug in designs, instant feedback messages to ensure correct installation of individual devices, and 11 field-selectable candela settings for wall and ceiling strobes and horn/strobes.

When installing Advance products, first 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.

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

Finally, attach the horn, strobe or horn/strobe tot he 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 captured mounting screw.



APPROVALS

- UL Listed
- FM
- MEA
- CSFM

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 minus 40 degree Fahrenheit and 151 degrees Fahrenheit in wet or dry applications.

FEATURES

- Electrically compatible with existing SpectrAlert products
- Automatic selection of 12- or 24-volt operation at 15 and 15/75 candela
- Plug-in design
- Field selectable candela settings on wall and ceiling units: 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, 185
- Same mounting plate for wall- and ceiling-mount units
- Shorting spring on mounting plate for continuity check before installation
- Tamper resistant construction
- Outdoor wall and ceiling products rated from -40°F to 151°F
- Design allows minimal intrusion into the back box
- Horn rated at 88+ dbA at 16 volts
- Rotary switch for horn tone and three volume selections
- Outdoor products UL listed to UL 1638 (strobe) and UL 464 (horn) outdoor requirements
- Outdoor products rainproof per UL 50 (NEMA 3R)
- Compatible with MDL sync module

Form No. P.1.102.01

704 S. 10th Street · P.O. Box 610 · Blue Springs, Missouri 64013-0610 U.S.A. · (816) 229-3405 · (816) 229-4615 · www.fike.com

ARCHITECTURAL/ENGINEERING SPECIFICATIONS

SpectrAlert Advance horns, strobes and horn/strobes shall mount to a standard $4 \ge 4 \le 1 \le 1/2$ inch back box, 4-inch octagon back box or double-gang back box. Two-wire products shall also mount to a single-gang $2 \le 4 \le 1.7/8$ 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 CircuitTM 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 appliances circuit outputs shall operate between nine 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, 185.

Strobe

The strobe shall be a System Sensor SpectrAlert Advance Model _____ listed to UL 1971 and shall be approved for fire protective services. 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 strobes 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 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 on 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 minus 40 degrees and 151 degrees Fahrenheit. The products shall be listed for use with a System Sensor outdoor/weatherproof back box with half inch and three-fourths inch conduit entries.

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 4 11/16 x 4 11/16 x 2 1/8-inch back box. The model 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

SPECIFICATIONS

SFLOTICATIONS	
Standard Operating Temperature	32°F to 120°F (0°C to 49°C)
K Series Operating Temperature	-40°F to 151°F (-40°C to 66°C)
Humidity Range	10 to 93% non-condensing (indoor products)
Strobe Flash Rate	1 flash per second
Nominal Voltage	Regulated 12DC/FWR or regulated 24DC/FWR ¹
Operating Voltage Range ²	8 to 17.5V (12V nominal) or 16 to 33V (24 nominal)
Input Terminal Wire Gauge	12 to 18 AWG
Ceiling Mount Dimensions (including lens)	6.8" diameter x 2.5" high (173 mm diameter x 64 mm high)
Wall Mount Dimensions (including lens)	5.6"L x 4.7"W x 2.5"D (142 mm L x 119 mm W x 64 mm D)
Horn Dimensions	5.6"L x 4.7"W x 1.3"D (142 mm L x 119 mm W x 33 mm D)
Wall Mount Back Box Skirt Dimensions	5.9"L x 5.0"W x 2.2"D (151 mm L x 128 mm W x 56 mm D)
Ceiling Mount Back Box Skirt Dimensions	7.1" diameter x 2.25" high (180 mm diameter x 57 mm high)
Wall Mount Weatherproof Back Box Dimensions	5.7"L x 5.1"W x 2.0"D (145 mm L x 130 mm W x 51 mm D)
Ceiling Mount Weatherproof Back Box Dimensions	7.1" diameter x 2.0" high (180 mm diameter x 51 mm high)
Notes:	

Full Wave Rectified (FWR) voltage is a non-regulated, time varying power source that is used on some power supply and panel outputs.
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)							UL Max. Horn Current Draw (mA RMS)						
	Candela	8-17.5 Volts			16-33 Volts			1.5. //		8-17.5 Volts		16-33 Volts	
		DC	FWR	DC			Sou	Sound Pattern dB		DC	FWR	DC	FWR
	15*	123	128	66	7		Temporal		High	57	55	69	75
Oterralend	15/75* 30*	142 NA	148 NA	77 94	8		Т	emporal	Medium	44	49	58	69
Standard Candela	75*	NA	NA	158	-	-	Т	emporal	Low	38	44	44	48
Range	95*	NA	NA	181		-	No	n-temporal	High	57	56	69	75
	110	NA	NA	202	19	5	No	n-temporal	Medium	42	50	60	69
	115	NA	NA	210		-	No	n-temporal	Low	41	44	50	50
High	135	NA	NA	228			Coded		High	57	55	69	75
Candela	150	NA	NA	246		•		Coded	Medium	44	51	56	69
Ranges	177 185	NA NA	NA NA	281 286				Coded L		40	46	52	50
	105	INA	NA	200	20	0					I	I	
		UL Max	c. Current D	Draw (m	nA RMS),	2-wire Hor	n/Stro	be, Standard	Candela F	Range (15-1	15 cd)		
DC	Input	8-17	8-17.5 Volts					16-33 Volts					
DO	input	15	15/75	5	15	15/7	75 30		75	9	5	110	115
Temporal High		137	147		79	90		107	176	19)4	212	218
Temporal Medium		13	144		69	80		97	157	157 18		201	210
Temporal Low		132	143		66	77		93	154	17	'9	198	207
Non-temporal High		141	152		91	100)	116	176	20)1	221	229
Non-temporal Medium		133	145		75	85		102	163 1		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	00	210	218
Temporal Medium		129	152		78	88		103	160	18	34	202	206
Temporal Low		129	151		76	86		101	160	18	34	194	201
Temporal H	Temporal High		161		103	112	2	126	181	20)3	221	229
Temporal N	Temporal Medium		155		85	95		110	166	18	9	208	216
Temporal L	Temporal Low		154		80	90		105	161	18	34	202	211
		UL Ma	ax. Current	Draw ((mA RMS)	, 2-wire H	orn/St	robe, High C	andela Ran	ge (135-18	5 cd)		
DC Input			16-33 Volts							16-33 Volts			
		135	150		177	185	FWR Input		135	150	177	185	
Temporal High		245	259		290	297	Tem	nporal High		215	231	258	265
Temporal N	ledium	235	253		288	297	Temp	ooral Medium	1	209	224	250	258
Temporal L	.ow	232	251		282	292	Tem	poral Low		207	221	48	256
Temporal H	ligh	255	270		303	309	Tem	poral High		233	248	275	281
Temporal N	ledium	242	259		293	299	Tem	Temporal Medium		219	232	262	267
			i				-				1	1	T

CANDELA DERATING

Temporal Low

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

Strobe Output (cd)							
Candela rating at -40°F							
Do not use below 32°F							
44							
70							
110							
115							
135							
150							
177							
185							

HORN TONES AND SOUND OUTPUT DATA

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

Temporal Low

Horn and Horn/Strobe Output (dBA)										
Switch Sound		8-17.5 Volts		16-33 Volts		24 Volt Nominal				
Positio	Pattern	dB	0 17.0 Volto		10 00 1013		Reverberant		Anechoic	
n	1 attern		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

ORDERING INFORMATION

Fike P/N	Mfg. P/N	Description	Fike P/N	Mfg. P/N	Description			
		Wall Horn/Strobes	Ceiling Horn/Strobes (continued)					
20-1345	P2R	2-wire Horn/Strobe, Standard cd, Red	20-1306	PC2R-P	2-wire Horn/Strobe, Standard cd, Red			
20-1269	P2RH	2-wire Horn/Strobe, High cd, Red	20-1308	PC2W	2-wire Horn/Strobe, Standard cd, White			
20-1271	P2RHK	2-wire Horn/Strobe, High cd, Red, Outdoor	20-1309	PC2WH	2-wire Horn/Strobe, High cd, White			
20-1349	P2RHK-P	2-wire Horn/Strobe, High cd Red, Outdoor, No Lettering	20-1311	PC2WH-P	2-wire Horn/Strobe, High cd, White, No Lettering			
20-1273	P2RH-P	2-wire Horn/Strobe, High cd, Red, No Lettering	20-1313	PC2WH-SP	2-wire Horn/Strobe, High cd, White, Spanish			
20-1275	P2RH-SP	2-wire Horn/Strobe, High cd, Red, Spanish	20-1310	PC2W-P	2-wire Horn/Strobe, Standard cd, White, No Lettering			
20-1270	P2RK	2-wire Horn/Strobe, Standard cd, Red, Outdoor	20-1312	PC2W-SP	2-wire Horn/Strobe, Standard cd, White, Spanish			
20-1348	P2RK-P	2-wire Horn/Strobe, Standard cd, Red, Outdoor, No Lettering	20-1314	PC4R	4-wire Horn/Strobe, Standard cd, Red			
20-1272	P2R-P	2-wire Horn/Strobe, Standard cd, Red No Lettering	20-1315	PC4RH	4-wire Horn/Strobe, High cd, Red			
20-1274	P2R-SP	2-wire Horn/Strobe, Standard cd, Red, Spanish	20-1317	PC4RHK	4-wire Horn/Strobe, High cd, Red, Outdoor			
20-1276	P2W	2-wire Horn/Strobe, Standard cd, White	20-1316	PC4RK	4-wire Horn/Strobe, Standard cd, Red, Outdoor			
20-1277	P2WH	2-wire Horn/Strobe, High cd, White	20-1318	PC4W	4-wire Horn/Strobe, Standard cd, White			
20-1279	P2WH-P	2-wire Horn/Strobe, High cd, White, No Lettering	20-1319	PC4WH	4-wire Horn/Strobe, High cd, White			
20-1278	P2W-P	2-wire Horn/Strobe, Standard cd, White, No Lettering	Ceiling Strobes					
20-1280	P4R	4-wire Horn/Strobe, Standard cd, Red	20-1320	SCR	Strobe, Standard cd, Red			
20-1281	P4RH	4-wire Horn/Strobe, High cd, Red	20-1321	SCRH	Strobe, High cd, Red			
20-1283	P4RHK	4-wire Horn/Strobe, High cd, Red, Outdoor	20-1323	SCRHK	Strobe, High cd, Red, Outdoor			
20-1351	P4RHK-P	4-wire Horn/Strobe, High cd, Red, Outdoor No Lettering	20-1325	SCRHK-P	Strobe, Standard cd, Red, Outdoor, No Lettering			
20-1285	P4RH-P	4-wire Horn/Strobe, High cd, Red, No Lettering	20-1322	SCRK	Strobe, Standard cd, Red, Outdoor			
20-1282	P4RK	4-wire Horn/Strobe, Standard cd, Red, Outdoor	20-1324	SCR-P	Strobe, High cd, Red, No Lettering			
20-1350	P4RK-P	4-wire Horn/Strobe, Standard cd, Red, Outdoor No Lettering	20-1326	SCW	Strobe, Standard cd, White			
20-1284	P4R-P	4-wire Horn/Strobe, Standard cd, Red, No Lettering	20-1327	SCWH	Strobe, High cd, White			
20-1286	P4W	4-wire Horn/Strobe, Standard cd, White	20-1329	SCWH-P	Strobe, High cd, White, No Lettering			
20-1287	P4WH	4-wire Horn/Strobe, High cd, White	20-1331	SCWH-SP	Strobe, High cd, White, Spanish			
		Wall Strobes	20-1328	SCW-P	Strobe, Standard cd, White, No Lettering			
20-1290	SR	Strobe, Standard cd, Red	20-1330	SCW-SP	Strobe, Standard cd, White, Spanish			
20-1291	SRH	Strobe, High cd, Red			Horns			
20-1293	SRHK	Strobe, High cd, Red, Outdoor	20-1334	HR	Horn, Red			
20-1295	SRH-P	Strobe, High cd, Red, No Lettering	20-1335	HRK	Horn, Red, Outdoor			
20-1297	SRH-SP	Strobe, High cd, Red, Spanish	20-1336	HW	Horn, White			
20-1292	SRK	Strobe, Standard cd, Red, Outdoor		•	Accessories			
20-1294	SR-P	Strobe, Standard cd, Red, No Lettering	20-1339	BBS-2	Back Box Skirt, Wall, Red			
20-1296	SR-SP	Strobe, Standard cd, Red, Spanish	20-1341	BBSC-2	Back Box Skirt, Ceiling, Red			
20-1298	SW*	Strobe, Standard cd, White	20-1342	BBSCW-2	Back Box Skirt, Ceiling, White			
20-1299	SWH*	Strobe, High cd, White	20-1340	BBSW-2	Back Box Skirt, Wall, White			
Ceiling Horn/Strobes			Electronic Chime/Sounder					
20-1302	PC2R	2-wire Horn/Strobe, Standard cd, Red	20-1337	CHR	Chime, Red			
20-1303	PC2RH	2-wire Horn/Strobe, High cd, Red	20-1338	CHW	Chime, White			
20-1305	PC2RHK	2-wire Horn/Strobe, High cd, Red, Outdoor			Chime/Strobe			
20-1307	PC2RH-P	2-wire Horn/Strobe, High cd, Red, No Lettering	20-1332	CHSR	2-wire Chime/Strobe, Standard cd, Red			
20-1304	PC2RK	2-wire Horn/Strobe, Standard cd, Red, Outdoor	20-1333	CHSW	2-wire Chime/Strobe, Standard cd, White			

