

SS-P2RK Two-wire, Wall-mount Outdoor Horn Strobe (red)

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Invented for life



- ▶ Plug-in design with tamper-resistant, rainproof (NEMA 3R) construction
- ▶ Field-selectable settings of 15 cd, 15/75 cd, 30 cd, 75 cd, 95 cd, 110 cd, and 115 cd
- ▶ Horn rated at 88 dbA or greater at 16 V
- ▶ Rotary switch selection for horn tone and one of three volumes
- ▶ Shorting spring on mounting plate for continuity check before installation

The SS-P2RK Horn Strobe, one of the System Sensor SpectrAlert Advance notification appliances, simplifies installations with features such as plug-in designs, instant feedback messages to ensure correct installation of individual devices, and field-selectable candela settings. This horn strobe is designed for outdoor wall-mounted applications.

SpectrAlert products can be used in either DC or full-wave rectified (FWR) systems (12 V or 24 V). If required, the SSMDL module can be used to provide synchronization.

i Notice

Full-wave Rectified (FWR) voltage is a non-regulated, time-varying power source that is used on some power supply and panel outputs.

i Notice

SpectrAlert products set at 15 cd and 15/75 cd automatically work on either 12 V or 24 V power supplies. The products are not listed for 12 V operating voltages when set to any other candela settings.

Functions

Horn

The horn has three volume options and an option to switch between a temporal Code 3 pattern and a non-temporal (continuous) pattern. These options are set by a multiple position switch.

Strobe

When wired as a primary-signaling notification appliance, the strobe complies with the Americans with Disabilities Act (ADA) requirements for visible signaling appliances, flashing at 1 Hz over the strobe's entire operating voltage range. The strobe light consists of a xenon flash tube and associated lens and reflector system.

For 24 V applications, the total number of strobes on a single NAC must not exceed 40, with a maximum loop resistance of 120 Ω. For 12 V applications, the total number of strobes must not exceed 12, with a maximum loop resistance of 30 Ω.

Certifications and approvals

System Sensor holds these Listings and Approvals:

Region	Certification	
USA	UL	ULSZ: Audible Signal Appliances (UL464)
	FM	SS-P2RK
	CSFM	see our website

Installation/configuration notes

Mounting Considerations



Notice

These strobes are for wall mounting only!

For outdoor use, these strobes wall mount on the supplied outdoor back box.

Wiring Considerations

The input terminals on the universal mounting plate accept solid wires between 12 AWG (2.3 mm) to 18 AWG (1.2 mm).

Parts included

Quant.	Component
1	Horn strobe
1	Universal mounting plate (MP120K)
1	Outdoor back box (SA-WBB)
1	Hardware pack
1	Literature pack

Technical specifications

Electrical

Current Draw, UL maximum at 8 V to 17.5 V

15 cd - Temporal Code 3 Pattern

	DC	FWR
High dB Setting:	137 mA	136 mA RMS
Medium dB Setting:	132 mA	129 mA RMS
Low dB Setting:	132 mA	129 mA RMS

15 cd – Non-temporal (continuous) Pattern

	DC	FWR
High dB Setting:	141 mA	142 mA RMS

Medium dB Setting:	133 mA	134 mA RMS
Low dB Setting:	131 mA	132 mA RMS

15/75 cd - Temporal Code 3 Pattern

	DC	FWR
High dB Setting:	147 mA	155 mA RMS
Medium dB Setting:	144 mA	152 mA RMS
Low dB Setting:	143 mA	151 mA RMS

15/75 cd – Non-temporal (continuous) Pattern

	DC	FWR
High dB Setting:	152 mA	161 mA RMS
Medium dB Setting:	145 mA	155 mA RMS
Low dB Setting:	144 mA	154 mA RMS

Current Draw, UL maximum at 16 V to 33 V

15 cd - Temporal Code 3 Pattern

	DC	FWR
High dB Setting:	79 mA	88 mA RMS
Medium dB Setting:	69 mA	78 mA RMS
Low dB Setting:	66 mA	76 mA RMS

15 cd – Non-temporal (continuous) Pattern

	DC	FWR
High dB Setting:	91 mA	103 mA RMS
Medium dB Setting:	75 mA	85 mA RMS
Low dB Setting:	68 mA	80 mA RMS

15/75 cd - Temporal Code 3 Pattern

	DC	FWR
High dB Setting:	90 mA	97 mA RMS
Medium dB Setting:	80 mA	88 mA RMS
Low dB Setting:	77 mA	86 mA RMS

15/75 cd – Non-temporal (continuous) Pattern

	DC	FWR
High dB Setting:	100 mA	112 mA RMS
Medium dB Setting:	85 mA	95 mA RMS
Low dB Setting:	79 mA	90 mA RMS

30 cd - Temporal Code 3 Pattern

	DC	FWR
High dB Setting:	107 mA	112 mA RMS
Medium dB Setting:	97 mA	103 mA RMS
Low dB Setting:	93 mA	101 mA RMS

30 cd – Non-temporal (continuous) Pattern

	DC	FWR
High dB Setting:	116 mA	126 mA RMS
Medium dB Setting:	102 mA	110 mA RMS
Low dB Setting:	96 mA	105 mA RMS

75 cd - Temporal Code 3 Pattern

	DC	FWR
High dB Setting:	176 mA	168 mA RMS
Medium dB Setting:	157 mA	160 mA RMS
Low dB Setting:	154 mA	160 mA RMS

75 cd – Non-temporal (continuous) Pattern

	DC	FWR
High dB Setting:	176 mA	181 mA RMS
Medium dB Setting:	163 mA	166 mA RMS
Low dB Setting:	156 mA	161 mA RMS

95 cd - Temporal Code 3 Pattern

	DC	FWR
High dB Setting:	194 mA	190 mA RMS
Medium dB Setting:	182 mA	184 mA RMS
Low dB Setting:	179 mA	184 mA RMS

95 cd – Non-temporal (continuous) Pattern

	DC	FWR
High dB Setting:	201 mA	203 mA RMS
Medium dB Setting:	187 mA	189 mA RMS
Low dB Setting:	182 mA	184 mA RMS

110 cd - Temporal Code 3 Pattern

	DC	FWR
High dB Setting:	212 mA	210 mA RMS
Medium dB Setting:	201 mA	202 mA RMS
Low dB Setting:	198 mA	194 mA RMS

110 cd – Non-temporal (continuous) Pattern

	DC	FWR
High dB Setting:	221 mA	221 mA RMS
Medium dB Setting:	207 mA	208 mA RMS
Low dB Setting:	201 mA	202 mA RMS

115 cd - Temporal Code 3 Pattern

	DC	FWR
High dB Setting:	218 mA	218 mA RMS

Medium dB Setting:	210 mA	206 mA RMS
Low dB Setting:	207 mA	201 mA RMS

115 cd – Non-temporal (continuous) Pattern

	DC	FWR
High dB Setting:	229 mA	229 mA RMS
Medium dB Setting:	216 mA	216 mA RMS
Low dB Setting:	210 mA	211 mA RMS

Voltage

Nominal:	Regulated 12 VDC/FWR or Regulated 24 VDC/FWR
Operating Range:	12V nominal: 8 V to 17.5 V or 24 V nominal: 16 V to 33 V

Environmental

Temperature (operating):	-40°F to +151°F (-40°C to +66°C)
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Mechanical

Candela Selections:	15 cd ¹ , 15/75 cd ¹ , 30 cd ² , 75 cd ² , 95 cd ² , 110 cd ² , and 115 cd ²
Dimensions (Height x Width x Depth):	5.6 in × 4.7 in × 2.5 in (142 mm × 119 mm × 64 mm)

¹ When set at these settings, the devices automatically work on both 12 V and 24 V power supplies. The 15/75 cd selection is listed at 15 cd but provides 75 cd on axis.

² The strobe is not listed for 12 V operating voltages when set to these selections. When using a 12 V control panel, this device yields required light output only in the 15 cd and 15/75 cd settings.

Strobe Output (cd)¹

Listed Candela	Candela rating at -40°F (-40°C)
15 cd	Do not use below +32°F (0°C)
15/75 cd	Do not use below +32°F (0°C)
30 cd	Do not use below +32°F (0°C)
75 cd	44 cd
95 cd	70 cd
110 cd	110 cd
115 cd	115 cd

¹ When these horn strobes are used at low temperatures, listed candela ratings must be reduced in accordance with this table.

Horn Audibility (minimum) for DC or FWR

Temporal Code 3 Pattern	8 V to 17.5 V	16 V to 33 V

High dB Setting:	78 dBA	84 dBA
Medium dB Setting:	74 dBA	80 dBA
Low dB Setting:	71 dBA	76 dBA

Non-temporal (continuous) Pattern

	8 V to 17.5 V	16 V to 33 V
High dB Setting:	82 dBA	88 dBA
Medium dB Setting:	78 dBA	85 dBA
Low dB Setting:	75 dBA	81 dBA

Trademarks

All hardware and software product names used in this document are likely to be registered trademarks and must be treated accordingly.

Ordering information**SS-P2RK Two-wire, Wall-mount Outdoor Horn Strobe (red)**

Designed for outdoor wall-mounted applications
Order number **SS-P2RK**

Accessories**SSMDL Synchronization Module (red)**

Red, 24VDC device that can connect to two Style Y (Class B) circuits or one Style Z (Class A) circuit and synchronize System Sensor SpectraAlert horns, strobes, and horn strobes.

Not Available.

Order number **SSMDL**

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