

V400 and SP100 Series Speakers with Optional Strobe

Section: Audio/Visual Devices

GENERAL

System Sensor's **Sound Choice™ SP100 Series and V400 Series Speakers** are for voice and tone signaling. The SP100 Series are high quality speakers and speaker/strobe combinations for evacuation signaling designed to meet UL1480 Fire Standard Specifications. For installations requiring a more compact device fitting to a standard 4" electrical backbox, the V400 Series speakers provide an unobtrusive profile. Both series feature excellent full-range audio response, dual voltages, easy wattage tap selectability, and a three-year warranty.

FEATURES

- One stock-keeping unit with dual voltages, 25/70.7 V_{RMS}.
- Square models (V400 and SP101) for wall mounting and round models (SP100) for ceiling mounting.
- Variety of power output tabs. **SP100:** 1/8, 1/4, 1/2, 1, 2, or 4 watts. **V400:** 1/4, 1/2, 1, or 2 watts.
- Variable decibel output (dependent on wattage tap) to meet demands of your unique environment.
- Color options to satisfy aesthetic demands: SP100 in red or white; V400 in red, beige, or white.
- Vandal-resistant speaker grille.
- 400 to 4,000 Hz frequency response for full-range audio.
- V400 Series fits to a standard 4" electrical box.
- SP100 Series fits to a standard 4" electrical box with an additional extension ring.
- Surface, semiflush, flush, and ceiling mounting options.
- No tools needed to change power output level.
- Strobe options: 1.5 or 15.0 candela UL-1638; or UL-1971/ADA version in 15, 15/75, 75 or 110 candela.
- Peak speaker dBA @ 10 feet (3.048 m) reverberant: **SP100:** 90 @ 4 watts. **V400:** 84 @ 2 watts.
- UL listed to Standard 1480.
- Three-year warranty.
- Available in combination with System Sensor ADA and LO/M strobe products.

APPLICATIONS

Ideally suited for hotel/motel rooms, lobbies, corridors, conference rooms, offices, hospitals, dorms, condominiums, and other commercial/industrial applications with low ambient sound levels.

CONSTRUCTION AND OPERATION

The device has a capacitive input to allow for DC supervision.

NOTE: The strobe is operated as an independent device and requires separate wires from the panel Notification Appliance Circuit (NAC). Select strobe which is compatible with the panel voltage.


LISTED

S4048

S3593 (SSLO/M)


 California
State Fire
Marshal

7320-1209:138 (V400)

7320-129:123 (SSLO/M)



0W4A5.AY (SSLO/M)

MEA

167-93-E (V400)


**SP1R
Speaker/Strobe**

VR4 Speaker/Strobe

ENGINEERING SPECIFICATIONS

Speaker shall be a System Sensor model _____ dual-transformer speaker capable of operating at 25 and 70.7 V_{RMS}. Speaker shall be listed to Underwriter's Laboratories Standard 1480 for fire protective signaling systems. Speaker shall have a frequency range of 400 to 4,000 Hz and shall have an operating temperature between 32°F and 120°F (0°C and 49°C). Speaker shall have power taps which are selected by means of a jumper wire(s).

For Speaker/Strobe Combination: Speaker/strobe shall be a System Sensor model _____ dual-transformer speaker capable of operating at 25 and 70.7 V_{RMS}. Speaker/strobe shall be listed to Underwriter's Laboratories Standard 1480 for fire protective signaling systems. Speaker shall have a frequency range of 400 to 4,000 Hz and shall have an operating temperature between 32°F and 120°F (0°C and 49°C). Speaker shall have power taps which are selected by means of a jumper wire(s). Strobe shall be powered independently of the speaker and shall operate from a 24 VDC or 24 V_{RMS} full-wave rectified unfiltered power supply. Strobe shall have a light output rating of 1.5, 15, 75, or 110 candela, and shall be UL 1638 or 1971 listed as a primary signaling device.

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 **Fire-Lite Alarms**, One Fire-Lite Place, Northford, Connecticut 06472. Phone: (800) 627-3473, Toll Free FAX: (877) 699-4105, FAX Back:(888) 388-3299
WEB: www.firelite.com

ISO 9001
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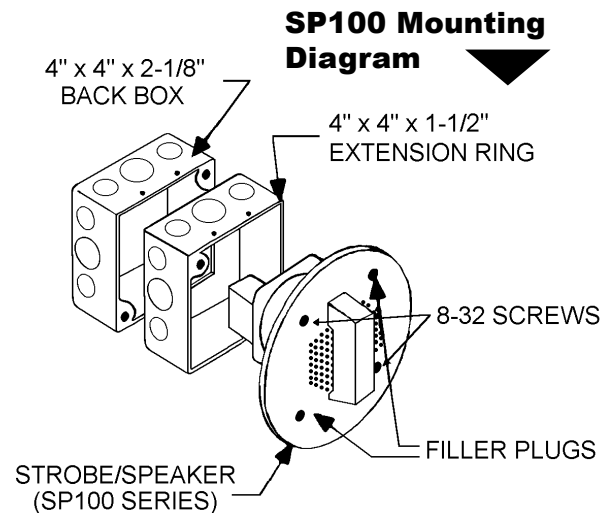
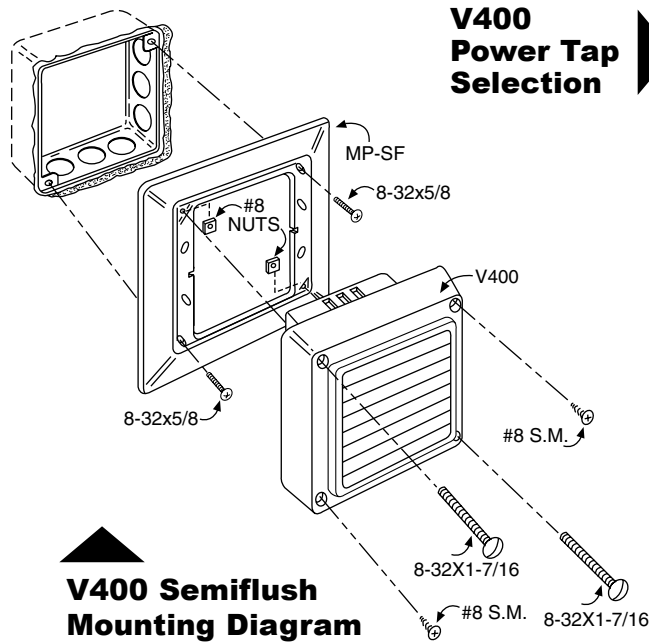
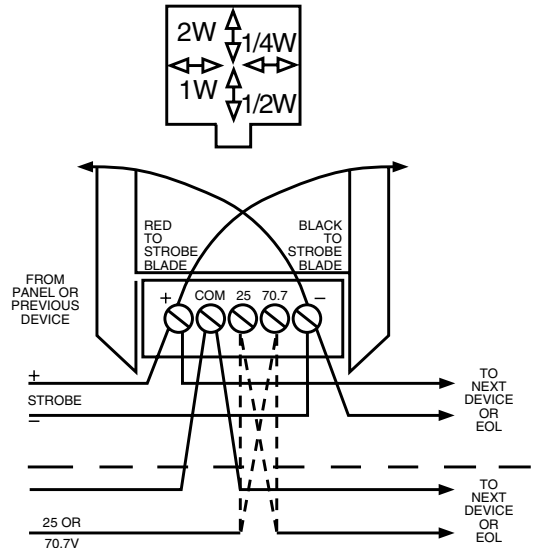
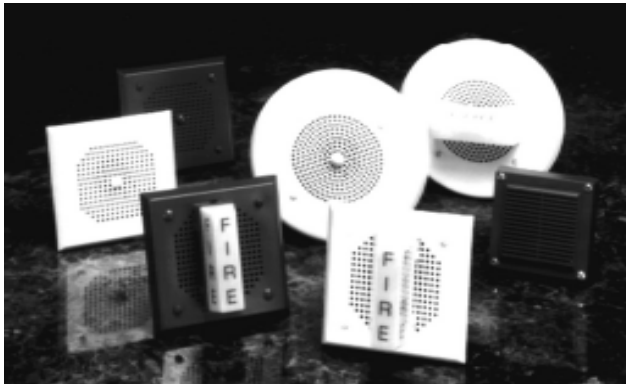
POWER TAP SELECTION AND SOUND OUTPUT

	SP100*						V400			
	4 Watts	2 Watts	1 Watt	1/2 Watt	1/4 Watt	1/8 Watt	2 Watts	1 Watt	1/2 Watt	1/4 Watt
Jumper Wire, 25 V:*	1 B	1 A	2 B	2 A	3 B	4 B				
Jumper Wire, 70.7 V:*	2 A	3 B	4 B	5 B	6 B	6 A				
UL Reverberant (dBA @ 10 ft. [3.048 m]):	90	87	84	81	78	75	84	81	78	75
Anechoic (dBA @ 10 ft. [3.048 m]):	93	90	87	84	81	78	87	84	81	78

*EXAMPLE: To select 1/4 watt output @ 25 V, connect Blue lead to post #3, and yellow to post B. For further information, consult System Sensor installation instructions for this product.

SP100 SERIES SPEAKER/STROBE POWER REQUIREMENTS

	SP1W2415ADA SP1R2415ADA	SP1W241575ADA SP1R241575ADA	SP1W2475ADA SP1R2475ADA	SP1W24110ADA SP1R24110ADA
Supply voltage:	20 to 30 VDC	20 to 30 VDC	20 to 30 VDC	20 to 30 VDC
Maximum current @ listed voltage:	75 mA	93 mA	170 mA	210 mA
Operating current @ rectified unfiltered voltage:	90 mA	120 mA	200 mA	245 mA
Rated light output:	15.0 candela	15/75 candela	75.0 candela	110.0 candela



SP100 SERIES SPECIFICATIONS

Input terminals: 12 AWG (3.25 mm²) to 18 AWG (0.75 mm²).

Grille size/color: Round: 7-3/8" (187.325 mm) in white.

Square: 5" (127.0 mm) in red or white (*color availability varies with models, see Ordering Information chart below*).

Weight: 1.6 lb. (725.75 g).

Mounting: 4" (101.6 mm) x 4" (101.6 mm) x 2-1/8" (53.975 mm) backbox with 4" (101.6 mm) x 4" (101.6 mm) x 1-1/2" (38.1 mm) extension ring.

Filler plugs: included.

Operating temperature range: 32°F to 120°F (0°C to 49°C).

Input voltage: 25 volts or 70.7 volts (nominal).

Frequency range: 400 to 4,000 Hz.

Although the SP100 Series speaker/strobe combination is sold as a unit, the speaker and strobe are electrically independent and require separate power sources. See chart on page 2 for strobe operating requirements.

V400 SERIES SPECIFICATIONS

Input terminals: 14 AWG (2.0 mm²) to 18 AWG (0.75 mm²).

Grille size/color: Square: 4" (101.6 mm) in red, beige, or white (*color availability varies with models, see Ordering Information chart below*).

Weight: 0.7 lb. (317.51 g).

MOUNTING (*order mounting plates separately, see Ordering Information below*): **Semiflush:** 4" (101.6 mm) x 4" (101.6 mm) x 1-1/2" (38.1 mm) to 2-1/8" (53.975 mm) standard backbox. For 12 AWG (3.25 mm²) or 14 AWG (2.0 mm²) wire, a 2-1/8" (53.975 mm) deep backbox is recommended. **Flush:** 2-3/4" (69.85 mm) deep backbox (BB-D) with flush mounting plate.

Filler plugs: N/A.

Operating temperature range: 32°F to 120°F (0°C to 49°C).

Input voltage: 25 volts or 70.7 volts (nominal).

Frequency range: 400 to 4,000 Hz.

ORDERING INFORMATION

RED (R) MODELS	BEIGE & WHITE MODELS (B, W)	DESCRIPTION	SPEAKER VOLTAGE	STROBE VOLTAGE	CANDELA
SP100 Series Speakers					
—	SP100W	Round, 7-3/8" grille, 1/8 - 4 watt power taps.	25/70.7 V _{RMS}	—	—
SP101R	SP101W	Square, 5" grille, 1/8 - 4 watt power taps.	25/70.7 V _{RMS}	—	—
SP1R2415ADA	SP1W2415ADA	Square, 5" grille, 1/8 - 4 watt power taps.	25/70.7 V _{RMS}	24 VDC	15.0 cd
SP1R241575ADA	SP1W241575ADA	Square, 5" grille, 1/8 - 4 watt power taps, wall strobe, UL-1971.	25/70.7 V _{RMS}	24 VDC	15/75 cd
SP1R2475ADA	SP1W2475ADA	Square, 5" grille, 1/8 - 4 watt power taps, wall strobe, UL-1971.	25/70.7 V _{RMS}	24 VDC	75 cd
SP1R24110ADA	SP1W24110ADA	Square, 5" grille, 1/8 - 4 watt power taps, wall strobe, UL-1971.	25/70.7 V _{RMS}	24 VDC	110 cd
V400 Series Speakers					
V400R	V400B, V400W	Square, 4" grille, 1/4 - 2 watt power taps.	25/70.7 V _{RMS}	—	—
V4R2415ADA	—	Square, 4" grille, 1/4 - 2 watt power taps, wall strobe, UL-1971.	25/70.7 V _{RMS}	24 VDC	15.0 cd
V4R241575ADA	—	Square, 4" grille, 1/4 - 2 watt power taps, wall strobe, UL-1971.	25/70.7 V _{RMS}	24 VDC	15/75 cd
V4R2475ADA	—	Square, 4" grille, 1/4 - 2 watt power taps, wall strobe, UL-1971.	25/70.7 V _{RMS}	24 VDC	75 cd
V4R24110ADA	—	Square, 4" grille, 1/4 - 2 watt power taps, wall strobe, UL-1971.	25/70.7 V _{RMS}	24 VDC	110 cd
MP-F/R	MP-F/B	Flush mounting plate.	—	—	—
BB-D	—	Flush-mounting deep (2-3/4"/69.85 mm) backbox.	—	—	—
MP-SF/R	MP-SF/B	Semi-flush mounting plate.	—	—	—
Strobe Attachments for V400*					
SS12LO	—	Signal strobe, red only.	—	12 VDC	1.5 cd
SS24LO	SS24LOB	Signal strobe.	—	24 VDC	1.5 cd
SS24LOC	—	Ceiling-mount signal strobe, red only.	—	24 VDC	1.5 cd
SS24M	—	Signal strobe, red only.	—	24 VDC	15.0 cd
SS24MC	—	Ceiling-mount signal strobe, red only.	—	24 VDC	15.0 cd
*Although the SSLO and SSM Series signal strobes are UL listed as primary signaling devices, when combined with the V400 speaker, they are considered as a secondary signaling device only.					