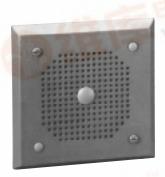
SP100 and V400 Series Speakers and Speaker/Strobes



A Division of Pittway 3825 Ohio Avenue, St. Charles, IL 60174 1-800-SENSOR2 (736-7672), Fax 630-377-6495 http://www.systemsensor.com



SP101 Speaker



V400 Speaker
with ADA Strobe



Features

- Dual voltages: 25 and 70.7 Vrms
- Multiple selectable taps
 SP100: ¹/₈ 4 watts
 V400: ¹/₄ 2 watts
- Peak dBA:
 - -SP100: 96 @ 4 watts -V400: 90 @ 2 watts
- Multiple strobe options

 ADA/UL 1971 @ 15,
 15/75, 75, or 110 cd
 (24 VDC only)
- Listed to UL Standard
 1480 for speakers for fire
 protective signaling
 systems

System Sensor SP100 Series and V400 Series Speakers are the Sound Choice[™] for voice, tone, and visible signaling. The SP100 Series are high quality speakers and speaker/strobe combinations for evacuation signaling

designed to meet UL1480 Fire Standard Specifications. Sound Choice speakers are available with ADA/UL1971 listed strobes for public mode applications.

Specifications - SP100 Series

Mechanical

Input Terminals: 12 to 18 AWG

Grille Size/Color:

Round: 8" (203 mm)/white Square: 5" (127 mm)/red or white

Weight: 1.6 lb (725 gm)

Mounting: $4'' \times 4'' \times 2^{1}/s''$ backbox with

 $4'' \times 4'' \times 1^{1/2}$ " extension ring

Electrical

Voltage Input: 25 volts or 70.7 volts (nominal)

Frequency Range: 400 – 4000 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.



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Included

Temperature Range: 32° to 120° F (0° to 49° C)









SP100 Series Speaker/Strobe Power Requirements

	SP1W2415ADA	SP1W241575ADA	SP1W2475ADA	SP1W24110ADA	
	<u>SP1R2415ADA</u>	SP1R241575ADA	SP1R2475ADA	SP1R24110ADA	
Supply Voltage:	20-30 VDC	20-30 VDC	20-30 VDC	20-30 VDC	
Max. 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 cd	15/75 cd	75.0 cd	110.0 cd	

Specifications – V400 Series

Mechanical

Input Terminals: 14 to 18 AWG

Grille Size/Color: 4" (102 mm)/red or beige

Weight: .7 lb (317 gm)

Mounting:

Semiflush*: $4'' \times 4'' \times 1^{1}/2'' - 2^{1}/8''$

standard backbox**

Flush*: deep backbox (BBD) with

flush mounting plate

Operating

Temperature Range: 32° to 120°F (0° to 49°C)

Electrical

Voltage Input: 25 volts or 70.7 volts (nominal)

Frequency Range: 400 – 4000 Hz

Engineering Specifications

Speaker shall be a System Sensor Model ______ dual transformer speaker capable of operating at 25 and 70.7 Vrms. Speaker shall be listed to Underwriter's Laboratories Standard 1480 for fire protective signaling systems. Speaker shall have a frequency range of 400 to 4000 Hz and shall have an operating temperature between 32° and 120° F. 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 Speaker/Strobe Model _____ dual transformer speaker capable of

operating at 25 and 70.7 Vrms. 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 4000 Hz and shall have an operating temperature between 32° and 120°F. 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 Vrms full wave rectified unfiltered power supply. Strobe shall have a light output rating of 15, 75, or 110 candela and shall be UL 1971 listed as a primary signaling device.

^{*}Order mounting plates separately.

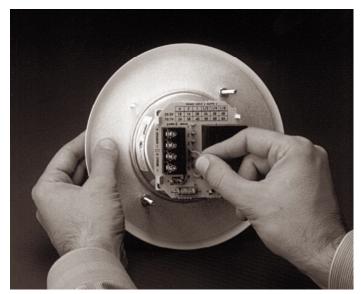
^{**}For 12- or 14-gauge wire, a 21/8" backbox is recommended.

Power Tap Selection and Sound Output

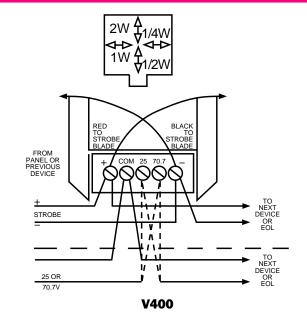
SP100*					V400				
4 W	2 W	1 W	$^{1}/_{2}$ W	$^{1}/_{4}$ W	$^{1}/_{8}$ W	2	1	1/2	$^{1}/_{4}$
1 B	1 A	2 B	2 A	3 B	4 B	_	_	-	-
2 A	3 B	4 B	5 B	6 B	6 A	_	_	-	-
90	87	84	81	78	75	84	81	78	75
93	90	87	84	81	78	87	84	81	78
96	93	90	87	84	81	90	87	84	81
	1 B 2 A 90 93	1 B 1 A 2 A 3 B 90 87 93 90	4 W 2 W 1 W 1 B 1 A 2 B 2 A 3 B 4 B 90 87 84 93 90 87	4 W 2 W 1 W 1/2 W 1 B 1 A 2 B 2 A 2 A 3 B 4 B 5 B 90 87 84 81 93 90 87 84	4 W 2 W 1 W 1/2 W 1/4 W 1 B 1 A 2 B 2 A 3 B 2 A 3 B 4 B 5 B 6 B 90 87 84 81 78 93 90 87 84 81	4 W 2 W 1 W 1/2 W 1/4 W 1/8 W 1 B 1 A 2 B 2 A 3 B 4 B 2 A 3 B 4 B 5 B 6 B 6 A 90 87 84 81 78 75 93 90 87 84 81 78	4 W 2 W 1 W 1/2 W 1/4 W 1/8 W 2 1 B 1 A 2 B 2 A 3 B 4 B - 2 A 3 B 4 B 5 B 6 B 6 A - 90 87 84 81 78 75 84 93 90 87 84 81 78 87	4 W 2 W 1 W 1/2 W 1/4 W 1/8 W 2 1 1 B 1 A 2 B 2 A 3 B 4 B - - 2 A 3 B 4 B 5 B 6 B 6 A - - 90 87 84 81 78 75 84 81 93 90 87 84 81 78 87 84	4 W 2 W 1 W 1/2 W 1/4 W 1/8 W 2 1 1/2 1 B 1 A 2 B 2 A 3 B 4 B -

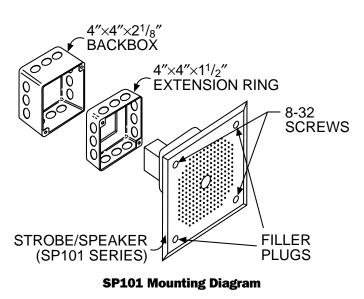
^{*} Example: To select 1/4 watt output @ 25 V connect blue lead to post #3, yellow to post B.

Power Tap Selection









8-32x5/8
WP-SF
8-32x5/8
WH8 S.M.
8-32X1-7/16
#8 S.M. 8-32X1-7/16

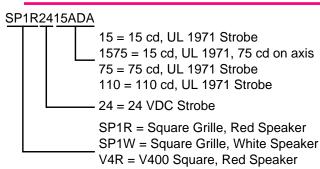
V400 Semiflush Mounting Diagram

Ordering Information - Sound Choice™ Speakers

			Speaker		Strobe	•			
			Description	Voltage	Voltage	Candela			
<u>SP100 Series Speakers</u>									
Red	White								
-	SP100W		Round, 8" grille, 1/8–4 watt power taps	25/70.7 Vrms	_	_			
SP101R	SP101W		Square, 5" grille, 1/8-4 watt power taps	25/70.7 Vrms	-	_			
SP1R2415ADA	SP1W2415ADA		Square, 5" grille, 1/8-4 watt power taps, wall strobe, UL 1971	25/70.7 Vrms	24 VDC	15 cd			
SP1R241575ADA	A SP1W241575ADA		Square, 5" grille, 1/8-4 watt power taps, wall strobe, UL 1971	25/70.7 Vrms	24 VDC	15/75 cd			
SP1R2475ADA	SP1W2475ADA		Square, 5" grille, 1/8-4 watt power taps, wall strobe, UL 1971	25/70.7 Vrms	24 VDC	75 cd			
SP1R24110ADA	SP1W24110ADA		Square, 5" grille, 1/8-4 watt power taps, wall strobe, UL 1971	25/70.7 Vrms	24 VDC	110 cd			
V400 Series Speakers									
Red	Beige	White							
V400R	V400B	V400W	Square, 4" grille, 1/4-2 watt power taps	25/70.7 Vrms	_	_			
V4R2415ADA	_	_	Square, 4" grille, 1/4–2 watt power taps, wall strobe, UL 1971	25/70.7 Vrms	24 VDC	15 cd			
V4R241575ADA	_	_	Square, 4" grille, 1/4–2 watt power taps, wall strobe, UL 1971	25/70.7 Vrms	24 VDC	15/75 cd			
V4R2475ADA	_	_	Square, 4" grille, 1/4–2 watt power taps, wall strobe, UL 1971	25/70.7 Vrms	24 VDC	75 cd			
V4R24110ADA	_	_	Square, 4" grille, 1/4–2 watt power taps, wall strobe, UL 1971	25/70.7 Vrms	24 VDC	110 cd			
MP-F	MP-FB	MP-FW	Flush mounting plate	,					
BB-D	_	_	Flush mounting deep backbox, 2 ³ / ₄ " deep						
MP-SF	MP-SFB	MP-SFW	Semi-flush mounting plate						
			.						
UL 1638 Strobe attachments for V400*									
Red	Beige								
SS12LO	-		Signal strobe	-	12 VDC	1.5 cd			
SS24LO	SS24LOB		Signal strobe	_	24 VDC	1.5 cd			
SS24LOC	_		Ceiling mount signal strobe	_	24 VDC	1.5 cd			
SS24M	-		Signal strobe	_	24 VDC	15 cd			
SS24MC	-		Ceiling mount signal strobe	_	24 VDC	15 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.

How to Order SP100 Series Speakers with Strobes



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In India: Telefax: 91-022-8202564 In Italy: Telephone: 39-40-9490-111 Fax: 39-40-382137

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