

PS12/24ADA Signaling Strobe and Sounder



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<http://www.systemsensor.com>



Models Available

PS2415ADA
PS241575ADA
PS2475ADA
PS24110ADA
PS1215ADA
PS121575ADA

Features

- Low combined strobe/horn current draw from 90 mA
- New "Euro-Style" appearance
- Easily fits into single gang backbox
- Fits double gang backbox with optional semi-flush plate
- Multiple Light intensities
 - 24 VDC: 15, 15/75, 75 or 110 cd models
 - 12 VDC: 15 or 15/75 cd models
- Available in Red or White
- No measurable in-rush in excess of peak current
- Wall mount only

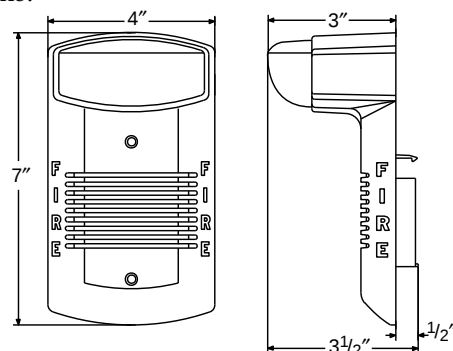
System Sensor PS12/24ADA Series integrated sounder/strobes comply with the **Americans with Disabilities Act (ADA)** and the demanding requirements of the new **Standard UL 1971 for the Hearing Impaired**. The 15/75 version is UL 1971 listed at 15 cd.

To insure compliance with ADA and UL 1971, use the System Sensor 75 candela models for non-sleeping areas, and 110 candela models for sleeping areas. Available in red or white at 12 or 24 VDC, the PS12/24ADA series of signaling strobes can be mounted directly to a standard 2" backbox or 4" backbox with the optional semi-flush plate.

Specifications

Input terminals:	18 – 12 AWG
Shipping Weight:	
PS12/24ADA	
Series Strobes:	13 oz. (369g)
Operating	
Temperature Range:	32°F to 120°F (0°C to 49°C)
Mounting:	
Surface:	2" × 4" × 1 1/4" standard single gang box
Semi-flush:	2" × 4" × 1 1/2" standard single gang box

Dimensions:



General Description

All PS12/24ADA Series integrated sounder/strobes are suitable for primary signaling in public mode life safety applications. The sounder/strobes can be connected to the alarm indicating circuit of a UL listed fire alarm control panel. They are compatible with DC line supervision. Panels may have full-wave rectified, unfiltered power supplies. The sounder/strobes are available for either 24VDC operation, with 15, 15/75, 75, or 110 cd light

intensity, or for 12VDC operation with 15 or 15/75 cd light intensity. They feature low current draw with no measurable in-rush in excess of peak current. The sounder/strobe is intended for wall mounting only to a 2" electrical backbox. Mounting to a 4" square electrical backbox can be done with the addition of the PS-FP accessory mounting plate.

Electrical Ratings – Strobe/Mini Horn

Model		Supply	Peak	In-rush Current in	Average Operating	Average Operating
Red	White	Voltage Range	Operating Current	Excess of Peak	Current from	Current from Full Wave
			(mA)	Operating Current (mA)	Regulated Supply	Rectified, Unfiltered Supply
					(mA)	(mA Arms)*
PS2415ADA	PS2415ADAW	20–30VDC	180	0	90	105
PS241575ADA	PS241575ADAW	20–30VDC	220	0	108	135
PS2475ADA	PS2475ADAW	20–30VDC	400	0	185	215
PS24110ADA	PS24110ADAW	20–30VDC	500	0	225	260
PS1215ADA	PS1215ADAW	10.5–17VDC	380	0	185	212
PS121575ADA	PS121575ADAW	10.5–17VDC	560	0	240	285

* For additional information, see installation manual D900-08-00.

Actual 12 volt operating voltage cannot be less than 8.5 VDC or greater than 18.7 VDC; actual 24 volt operating voltage cannot be less than 16 VDC or greater than 33 VDC.

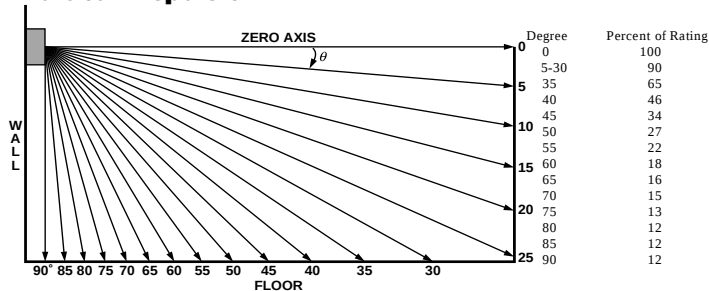
Engineering Specifications

Sounder/Strobe shall be a System Sensor Model _____ listed to *Standard UL 1971 for the Hearing Impaired* and shall be approved for Fire Protective Service. Sounder/Strobe shall be wired as a Primary Signaling Notification appliance. Sounder/strobe shall also comply with the Americans with Disabilities Act requirements for visible signaling appliances. Sounder/Strobe shall operate on 12 or 24VDC from a regulated DC supply or full-wave rectified, unfiltered supply. The sounder/strobe shall be powered from a non-coded power supply. Sounder/Strobe

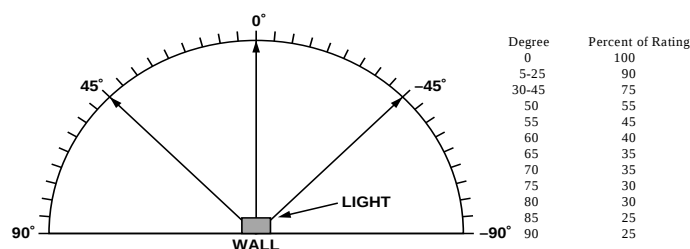
shall have no measurable in-rush current in excess of operating peak current. Visual signaling devices are to be installed in all non-sleeping/corridor and sleeping areas per plans and specifications. The strobe light shall consist of a xenon flash tube and associated lens/reflector system. All sounder/strobes shall be capable of semi-flush wall mounting to a standard 2" × 4" × 1½" backbox, without a separate mounting plate or to a 4" × 4" × 1½" backbox with a separate mounting plate.

Standard Light Distribution

Vertical Dispersion

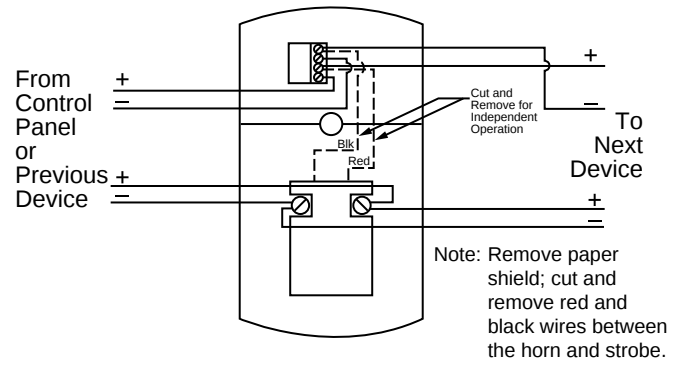
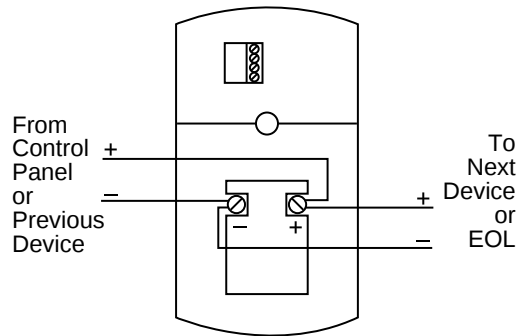


Horizontal Dispersion

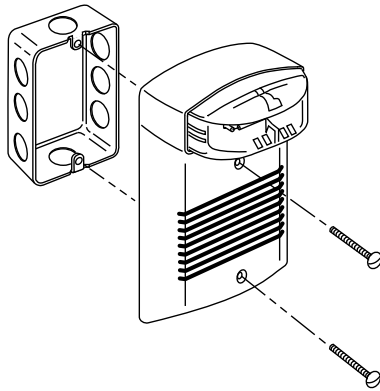


A polar light distribution in both horizontal and vertical directions is mandated for the strobes by the *Standard UL 1971 for the Hearing Impaired*, with specific minimum intensity percentages as shown in the graphs above. With its specially designed lens/reflector system, the PS12/24ADA Strobe Retrofit Plate Series meets or exceeds these requirements at all angles.

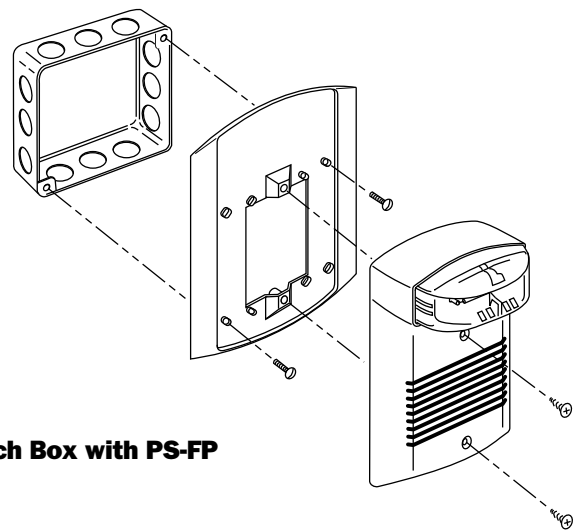
Wiring



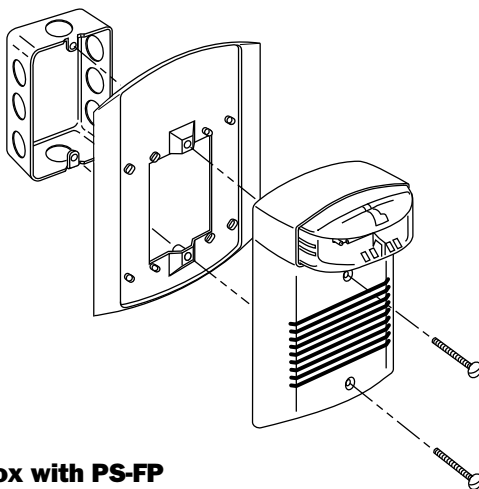
Mounting



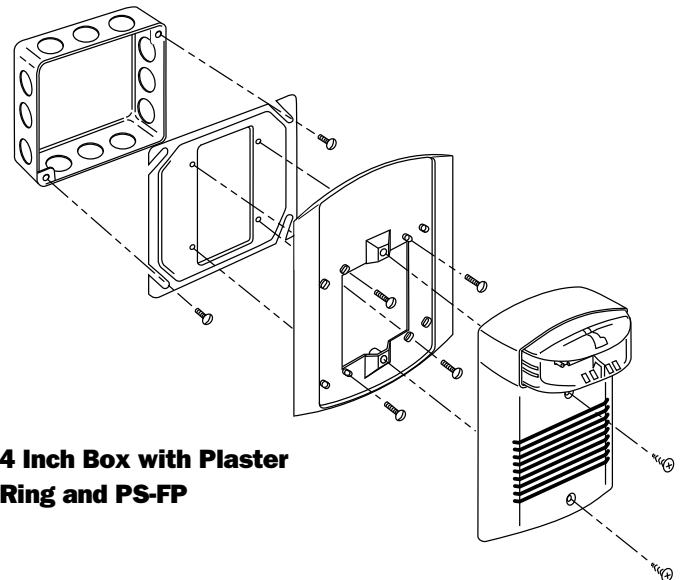
**Sounder/Strobe
2 Inch Box**



4 Inch Box with PS-FP



2 Inch Box with PS-FP



**4 Inch Box with Plaster
Ring and PS-FP**

Ordering Information

Signaling Strobe – UL 1971 Compliant

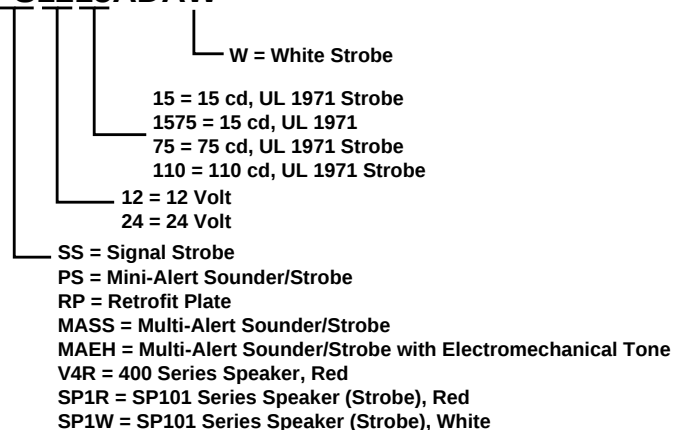
Red	White	Product	Operating Voltage	Strobe and Sounder		Peak (dBA) *
				Current Combined (Average mA)	Candela	
PS2415ADA	PS2415ADAW	Signaling Strobe/Sounder	24 VDC	90	15	90 dBA
PS241575ADA	PS241575ADAW	Signaling Strobe/Sounder	24 VDC	108	15/75**	90 dBA
PS2475ADA	PS2475ADAW	Signaling Strobe/Sounder	24 VDC	185	75	90 dBA
PS24110ADA	PS24110ADAW	Signaling Strobe/Sounder	24 VDC	225	110	90 dBA
PS1215ADA	PS1215ADAW	Signaling Strobe/Sounder	12 VDC	185	15	83 dBA
PS121575ADA	PS121575ADAW	Signaling Strobe/Sounder	12 VDC	240	15/75**	83 dBA
PS-FP	PS-FPW	Semi-Flush Mounting Plate				

*dBA measured in anechoic room at 10 feet.

**Measured to be 75 cd at 0° viewing angle (See Light Distribution Graph).

How to Order

PS1215ADAW



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