

## Features

**Speaker/visible (S/V) notification appliances with multi-tapped speaker and multi-tapped high intensity xenon strobe with synchronized flash:**

- Rugged, high impact, flame retardant thermoplastic housings are available for wall or ceiling mount
- Operation is compatible with ADA requirements (refer to [Wall Mount Installation Reference](#) on page 7)

### Wall mount S/V features:

- Housings are available in red or white with clear lens with contrasting white or red "FIRE" lettering
- Covers are available separately to convert housing color

### Ceiling mount S/V features:

- Housing is white with clear lens
- Red "FIRE" lettering is printed on two sides

### Audible notification appliance (speaker):

- High quality voice and tone reproduction with taps for ¼, ½, 1, or 2 W, at 25 or 70.7 VRMS
- Capacitor input for connection to supervised notification appliance circuits
- Speakers are wired separately from strobe wiring
- UL listed to Standard 1480 and ULC-S541\*
- Compliant with NFPA 72, 520 Hz Low Frequency Signal Requirements for Sleeping Areas

### Visible notification appliance (strobe):

- 24 VDC xenon strobe; intensity is selectable as 15, 30, 75, or 110 candela with visible selection jumper secured behind strobe housing
- Strobes are activated from NACs selected to provide Autocall strobe synchronization signals or from separate strobe Synchronization Modules that are available for Class B or Class A operation
- Regulated circuit design ensures consistent flash output and provides controlled inrush current
- UL listed to Standard 1971 and ULC-S526\*

### Options for wall mounted S/Vs:

- Red or white adapters to cover surface mounted electrical boxes
- Red adapter for mounting to 2975-9145 boxes
- Red wire guard

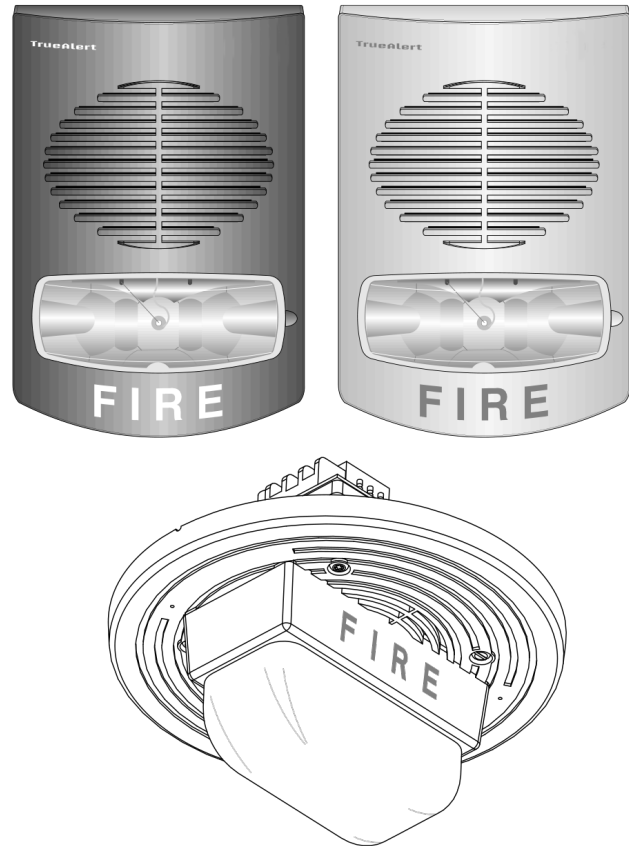


Fig 1: Wall and Ceiling Mount S/Vs

## Description

### Multi-Candela TrueAlert S/Vs with speaker and synchronized strobe

provide convenient installation to standard electrical boxes with extensions. The enclosure designs are both impact and vandal resistant and provide a convenient strobe intensity selection. Since each model can be selected for strobe intensity output, on-site model inventory is minimized and changes encountered during construction can be easily accommodated.

#### Wall mount

S/V housings are a one-piece assembly (including lens) that mounts to a 4" square electrical box with extension (see [Wall Mount Installation Reference](#) on page 7). The cover can be quickly removed (a tool is required) and covers are available separately for color conversion.

#### Ceiling mount

S/Vs also install using 4" electrical boxes with an extension (see [Ceiling Mount S/V Installation Reference and 2905-9946 Tile Bridge Dimensions](#) on page 6).

## Strobe Intensity Selection

During installation, a selection plug at the back of the housing determines the desired strobe intensity. An attached flag with black letters on a highly visible yellow background allows the selected intensity to be seen at the side of the strobe lens.

\* Additional listings may be applicable; contact your local product supplier for the latest status.

## Synchronized Strobes

### Multiple Strobes.

When multiple strobes and their reflections can be seen from one location, synchronized flashes reduce the probability of photo-sensitive reactions as well as the annoyance and possible distraction of random flashing. The multi-candela strobes of these S/Vs are activated by NACs that provide the Autocall synchronization format. For additional information, refer to data sheet **AC4905-0003**.

## Strobe Application Selection

Proper selection of visible notification is dependent on occupancy, location, local codes, and proper applications of: the *National Fire Alarm and Signaling Code* (NFPA 72), ANSI A117.1; the appropriate model building code: BOCA, ICBO, or SBCCI; and the application guidelines of the Americans with Disabilities Act (ADA).

## Product Selection

**Table 1: Wall Mount Multi-Candela S/Vs**

SKU	Housing Color	"FIRE" Lettering	Listings	Description	Housing Dimensions with Lens
A4906-9151	Red	White	UL & ULC	Multi-tapped Speaker with Multi-Candela Synchronized Strobe; strobe intensity selectable as: 15, 30, 75, or 110 candela	7 ¼" H x 5" W x 2 ⅝" D (184 mm x 127 mm x 67 mm)
A4906-9153	White	Red			

**Table 2: Ceiling Mount Multi-Candela S/V**

SKU	Housing Color	"FIRE" Lettering	Listings	Description	Dimensions
A4906-9154	White	Red	UL	Multi-tapped Speaker with Multi-Candela Synchronized Strobe; strobe intensity selectable as: 15, 30, 75, or 110 candela	Housing = 7 ½" (191 mm) diameter, ½" (13 mm) deep Strobe lens protrusion = 2 ⅝" (67 mm) above speaker housing Depth into box = 2 ¾" (70 mm)

**Table 3: Wall Mount S/V Adapters**

SKU	Description	Dimensions
A4905-9946	Surface mount red adapter skirt	7 ¾" H x 5 ⅝" W x 3 ⅜" D (197 mm x 137 mm x 81 mm) depth with S/V = 5 ⅝" (149 mm)
A4905-9947	Surface mount white adapter skirt	
A4905-9903	Adapter Plate, red, required to mount S/V on 2975-9145	8 ⅝" H x 5 ¾" W x 0.060" Thick (211 mm x 146 mm x 1.5 mm)
2975-9145	Mounting box, red, for surface or flush mount, requires adapter plate A4905-9903 (this box may be available for retrofit applications)	7 ⅞" H x 5 ⅝" W x 2 ¾" D (200 mm x 130 mm x 70 mm)

**Table 4: Wall Mount S/V Replacement Covers**

SKU	Descriptions	Dimensions
A4905-9996	Red S/V cover with white "FIRE" lettering	7 ¼" H x 5" W x 1 ⅜" D (184 mm x 127 mm x 35 mm)
A4905-9997	White S/V cover with red "FIRE" lettering	

**Table 5: Synchronized Flash Control Modules**

SKU	Description		Dimensions
A4905-9914*	Synchronized Flash Module, Class B operation	Epoxy encapsulated with in/out 18 AWG (0.82 mm <sup>2</sup> ) wire leads, rated for 2 A NAC, requires 5 mA for power	1 3/8" W x 2 7/16" L x 13/16" H (35 mm x 62 mm x 20 mm)
A4905-9922*	Synchronized Flash Module, Class A operation		

**Table 6: Ceiling Mount Tile Bridge**

SKU	Description	Dimensions
2905-9946	Tile Bridge	See <a href="#">Ceiling Mount S/V Installation Reference and 2905-9946 Tile Bridge Dimensions</a> on page 6

\* Refer to data sheet [AC4905-0003](#) for additional flash control module information

## S/V Specifications

**Table 7: Common Specifications**

Specification	Rating
<b>Environmental</b>	32° to 122° F (0° to 50° C); 10% to 93%, non-condensing at 100° F (38° C)
<b>Connections</b>	Terminal blocks for 18 AWG to 12 AWG (0.82 mm <sup>2</sup> to 3.31 mm <sup>2</sup> ); two wires per terminal for in/out wiring

**Table 8: Speaker Specifications**

Specification	Rating					
<b>Input Voltage</b>	25 or 70.7 VRMS, see Note 1 below					
<b>Power Taps</b>	¼, ½, 1, and 2 W					
<b>Frequency Response</b>	Fire Alarm	400 to 4000 Hz				
	General Signaling	125 to 12 kHz				
<b>Speaker Output Ratings</b> @ 10 ft (3 m) (see Note 1 below)	Wattage Tap	<b>¼ W</b>	<b>½ W</b>	<b>1 W</b>	<b>2 W</b>	
	UL Listed Models, Reverberant Chamber Test, per UL 1480	76 dBA	79 dBA	82 dBA	85 dBA	
	Wall Mount Models A4906-9151 and A4906-9153, Anechoic Chamber Test, per ULC-S541	77 dBA	80 dBA	83 dBA	86 dBA*	
<b>Polar Dispersion Reference</b> (per ULC-S541 Anechoic Chamber Testing)	<b>Attenuation</b>	<b>Angle</b>		<b>Attenuation</b>	<b>Angle</b>	
	-3 dB	+/- 30° off-axis		-6 dB	+/- 55° off-axis	

**Note:** \* Select taps as indicated to satisfy the ULC fire alarm applications requirement of 85 dBA minimum

**Table 9: Strobe Specifications**

Specification	Rating				
<b>Rated Voltage Range</b>	Regulated 24 VDC; 16 VDC to 33 VDC, see Note 2 below				
<b>Flash Rate and Synchronized NAC Loading</b>	1 Hz; with up to 35 synchronized strobes maximum per NAC				
<b>Wall Mount</b>	Housing Dimensions (with lens)	7 ¼" H x 5" W x 2 ⅝" D (184 mm x 127 mm x 67 mm)			
	Maximum RMS Current Rating per Strobe Setting	15 cd	30 cd	75 cd	110 cd
		60 mA	94 mA	186 mA	252 mA
	Reference RMS Currents at other voltages	18 VDC	<b>53 mA</b>	<b>84 mA</b>	<b>165 mA</b>
24 VDC		<b>40 mA</b>	<b>63 mA</b>	<b>124 mA</b>	<b>168 mA</b>
<b>Ceiling Mount</b>	Housing Dimensions	Speaker housing = 7 ½" (191 mm) diameter, ½" deep (13 mm); lens protrusion above speaker housing = 2 ⅝" (67 mm); depth into box = 2 ¾" (70 mm)			
	Maximum RMS Current Rating per Strobe Setting	<b>15 cd</b>	<b>30 cd</b>	<b>75 cd</b>	<b>110 cd</b>
		75 mA	125 mA	233 mA	316 mA
	Reference RMS Currents at other voltages	18 VDC	<b>67 mA</b>	<b>111 mA</b>	<b>207 mA</b>
24 VDC		<b>50 mA</b>	<b>83 mA</b>	<b>155 mA</b>	<b>211 mA</b>

**Note:**

- Speakers are for connection to conventional fire alarm audio circuits. Anechoic speaker output ratings are typically more representative of actual installed sound output.
- The maximum RMS strobe current listed is the device nameplate rating. Strobe designs are constant wattage and the maximum RMS current rating occurs at the lowest allowable operating voltage. (RMS is root mean square and refers to the effective value of a varying current waveform.)

Speaker Directional Characteristics Reference

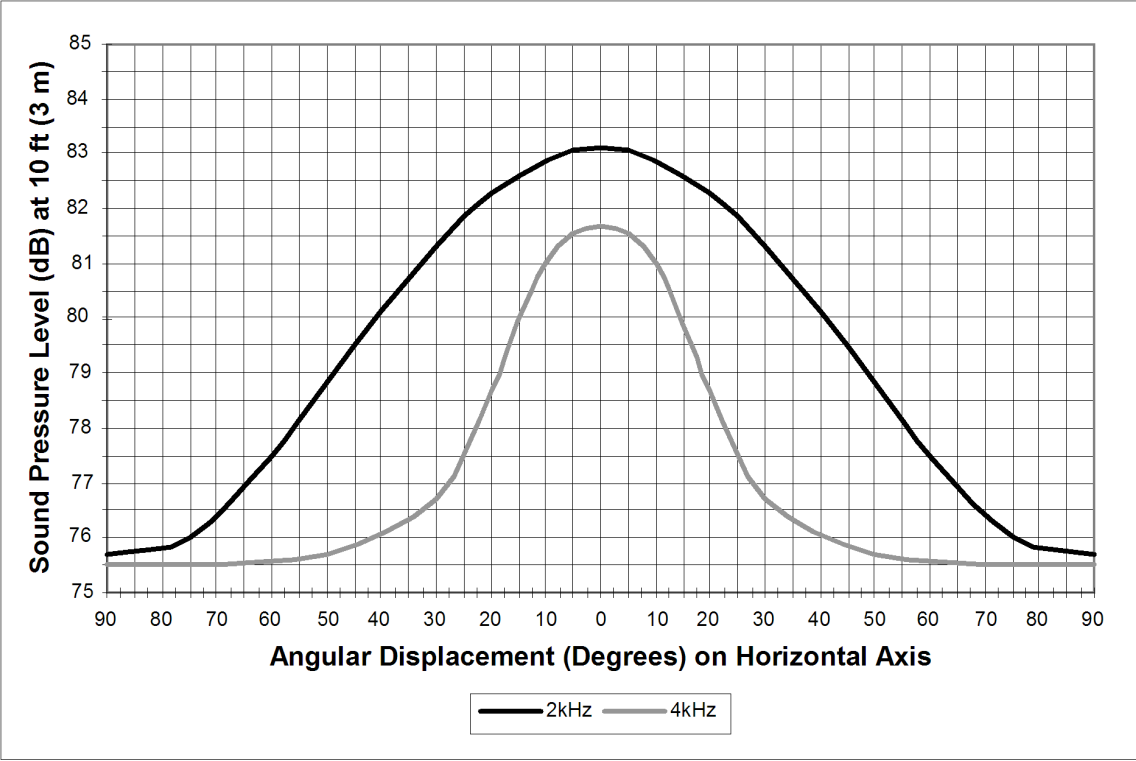
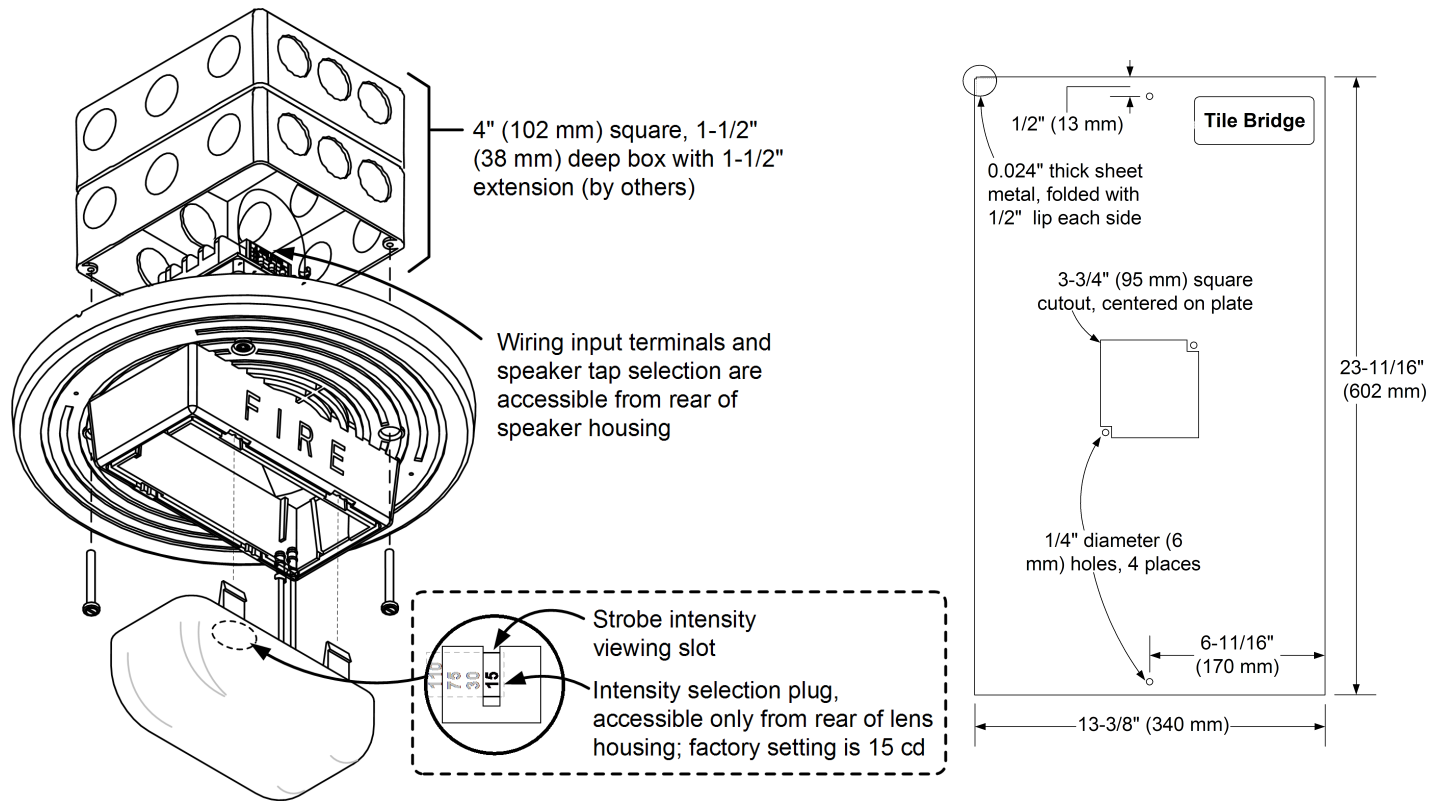


Fig 2: Speaker Directional Characteristics Reference

**Ceiling Mount S/V Installation Reference and 2905-9946 Tile Bridge Dimensions**

The illustration shows the mounting of a A4905-9903 Adapter plate to the 2975-9145 box.



The surface mount adapter skirts are available in red (A4905-9946) or white (A4905-9947)

Wall Mount Installation Reference

