



## TrueAlert Multi-Candela Notification Appliances

UL, ULC, CSFM Listed; FM Approved; MEA (NYC) Acceptance\* Visible Notification Appliances with Speaker and Multi-Candela Strobe; Non-Addressable

#### **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 (see Wall mount installation reference)

#### 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 1/4 W, 1/2 W , 1 W, or 2 W, at 25 VRMS 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 Simplex 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





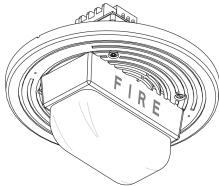


Figure 1: Wall and ceiling mount S/Vs

#### 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. You can select each model for strobe intensity output. This minimizes on-site model inventory and easily accommodates changes encountered during construction.

#### Wall mount

S/V housings are a one-piece assembly, including lens, that mounts to a 4 in. square electrical box with extension, see Wall mount installation reference. You can quickly remove the cover with a tool and covers are available separately for color conversion.

### **Ceiling mount**

S/Vs also install using 4 in. electrical boxes with an extension. See Ceiling mount S/V installation reference and 2905-9946 tile bridge dimensions.

## 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.



# 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 Simplex synchronization format. For additional information, refer to data sheet *\$4905-0003*.

## 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

Model	Housing Color	FIRE Lettering	Listings	Description	Housing dimensions with lens
4906-9151	Red	White	UL and ULC	Multi-tapped Speaker with Multi-Candela Synchronized	7 1/4 in. H x 5 in. W x 2 5/8 in. D
4906-9153	White	Red		Strobe; strobe intensity selectable as: 15 cd, 30 cd, 75 cd, or 110 cd	or 184 mm x 127 mm x 67 mm

#### Table 2: Ceiling mount multi-candela S/V

Model	Housing color	Lettering	Listings	Description	Dimensions
4906-9154	White	Red (FIRE)	UL	Multi-tapped Speaker with Multi-	Housing = 7 1/2 in. or 191 mm diameter, 1/2 in. or 13 mm
4906-9157	White	Red (FIRE)	ULC	Candela Synchronized Strobe;	deep
4906-9158	White	Red (ALERT)	UL	strobe intensity selectable as: 15	Strobe lens protrusion = 2 5/8 in. or 67 mm above
4906-9159	White	Blank	UL	cd, 30 cd, 75 cd, or 110 cd	speaker housing
4906-9160	Red	White (FIRE)	UL		Depth into box = 2 3/4 in. or 70 mm

#### Table 3: Wall mount S/V adapters

Model	Description		Dimensions		
4905-9946	Surface mount red adapter skirt	Required when mounting to surface	7 3/4 in. H x 5 3/8 in. W x 3 3/16 in. D		
4905-9947	Surface mount white adapter skirt	mounted electrical box, 4 in. square,	or 197 mm x 137 mm x 81 mm		
		1 1/2 in. deep with 1 1/2 in. deep extension	depth with S/V = 5 7/8 in. or 149 mm		
4905-9903	Adapter Plate, red, required to mount S/V	on 2975-9145	8 5/16 in. H x 5 3/4 in. W x 0.060 in. Thick		
			or 211 mm x 146 mm x 1.5 mm		
2975-9145	Mounting box, red, for surface or flush mo	7 7/8 in. H x 5 1/8 in. W x 2 3/4 in. D			
	(this box may be available for retrofit appl	or 200 mm x 130 mm x 70 mm			

### Table 4: Wall mount S/V replacement covers

Model	Descriptions	Dimensions
4905-9996	Red S/V cover with white <b>FIRE</b> lettering	7 1/4 in. H x 5 in. W x 1 3/8 in. D or 184 mm x 127 mm
4905-9997	White S/V cover with red <b>FIRE</b> lettering	x 35 mm

#### Table 5: Synchronized flash control modules

Model	Description		Dimensions
4905-9914*	Synchronized Flash Module, Class B operation	Epoxy encapsulated with in/out 18	1 3/8 in. W x 2 7/16 in. L x 13/16 in.
4905-9922*	Synchronized Flash Module, Class A operation	AWG or 0.82 mm <sup>2</sup> wire leads, rated	H or 35 mm x 62 mm x 20 mm
		for 2 A NAC, requires 5 mA for power	

## Table 6: Wall mount S/V wire guard

Model	Description	Dimensions
4905-9998	Wire guard with mounting plate, red, compatible with surface and	8 3/8 in. H x 6 5/16 in. W x 3 1/4 in. D
	semi-flush boxes (UL listed by Space Age Electronics Inc.)	or 213 mm x 154 mm x 79 mm

#### Table 7: Ceiling mount tile bridge

Model	Description	Dimensions
2905-9946	Tile Bridge	See Ceiling mount S/V installation reference and 2905-9946 tile bridge
		dimensions

<sup>\*</sup> Refer to data sheet \$4905-0003 for additional flash control module information

Page 2 S4906-0003 Rev. 11 4/2021



# S/V specifications

#### **Table 8: Common specifications**

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

#### **Table 9: Speaker specifications**

Specification			Rating						
Input voltage			25 VRMS or 70.7 VRMS, see Note 1						
Power taps			1/4 W, 1/2	2 W, 1 W, and	2 W				
Eroguoney rosponso		Fire Alarm	400 Hz to	4000 Hz					
Frequency response		General signaling	125 kHz to	o 12 kHz					
Charles autnut Datings	Wattage	tap			1/4 W	1/2 W	1 W	2 W	
<b>Speaker output</b> Ratings @ 10 ft or 3 m (see Note	UL Liste	UL Listed Models, Reverberant Chamb			L 1480	76 dBA	79 dBA	82 dBA	85 dBA
1)	Wall Mount Models 4906-9 Chamber Test, per ULC-S54		51 and 4906-9153 , Anechoic		77 dBA	80 dBA	83 dBA	86 dBA	
	Ceiling Mount Model 4906-915		157 , per	25 VRMS In	put	81.6 dBA	84.3 dBA	87.1 dBA	89.7 dBA
ULC-S541				70.7 VRMS	Input	80.9 dBA	84.1 dBA	87.3 dBA	90.2 dBA
Polar Dispersion Reference (per ULC-S541 Anechoic		Attenuat	ion	Angle	1	Attenuation	Angle	;	
Chamber Testing)			-3 dB +/- 30° off-		-axis	-6 dB	+/- 55	° off-axis	

## **Table 10: Strobe specifications**

Specificat			Rating				
Rated vol	tage range		Regulated 24 VDC; 16 VDC to 33 VDC, see Note 2				
Flash rate	e and synchronized NAC loading	5		synchronized strobes maximum for each NAC			
	Housing dimensions (with lens)		7 1/4 in. H x 5 in. W x 2	5/8 in. D or 184 mm x	127 mm x 67 mm		
Wall	Maximum RMS current rating per	strobe	15 cd	30 cd	75 cd	110 cd	
mount	setting		60 mA	94 mA	186 mA	252 mA	
mount	Reference RMS currents at other	18 VDC	53 mA	84 mA	165 mA	224 mA	
	voltages	24 VDC	40 mA	63 mA	124 mA	168 mA	
	Housing dimensions		Speaker housing = 7 1/2 in. or 191 mm diameter, 1/2 in. deep or 13 mm; lens protrusion above speaker housing = 2 5/8 in. or 67 mm; depth into box = 2 3/4 in. or 70 mm				
Ceiling	Maximum RMS Current rating per	r strobe	15 cd	30 cd	75 cd	110 cd	
mount	setting		75 mA	125 mA	233 mA	316 mA	
	Reference RMS currents at other	18 VDC	67 mA	111 mA	207 mA	281 mA	
	voltages	24 VDC	50 mA	83 mA	155 mA	211 mA	

#### Note:

- 1. Speakers are for connection to conventional fire alarm audio circuits. Anechoic speaker output ratings are typically more representative of actual installed sound output.
- 2. 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.

Page 3 S4906-0003 Rev. 11 4/2021

# Simplex

# Speaker directional characteristics reference

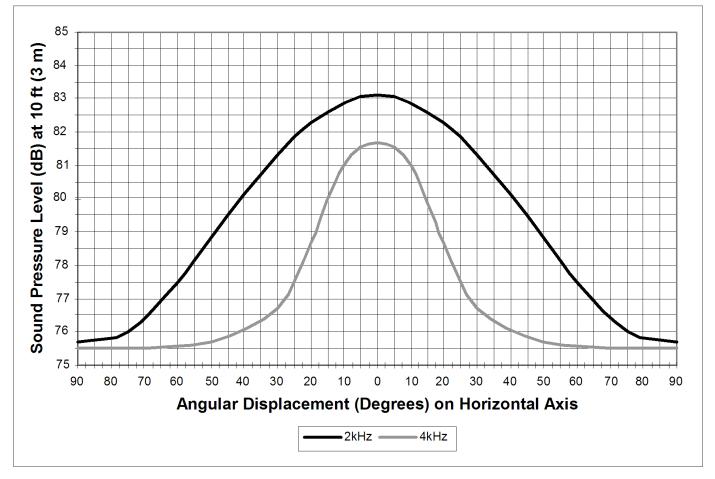


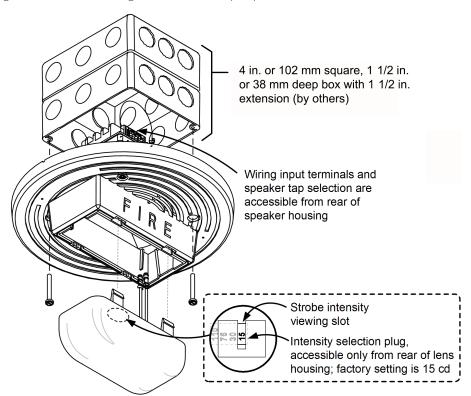
Figure 2: Speaker directional characteristics reference

Page 4 S4906-0003 Rev. 11 4/2021



## Ceiling mount S/V installation reference and 2905-9946 tile bridge dimensions

Figure 3 shows the mounting of a 4905-9903 Adapter plate to the 2975-9145 box.



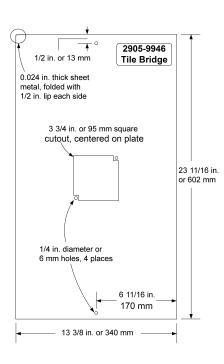


Figure 3: Ceiling mount S/V installation reference and tile bridge dimensions

The surface mount adapter skirts are available in red (4905-9946) or white (4905-9947)

Page 5 S4906-0003 Rev. 11 4/2021

# **Simplex**

## Wall mount installation reference

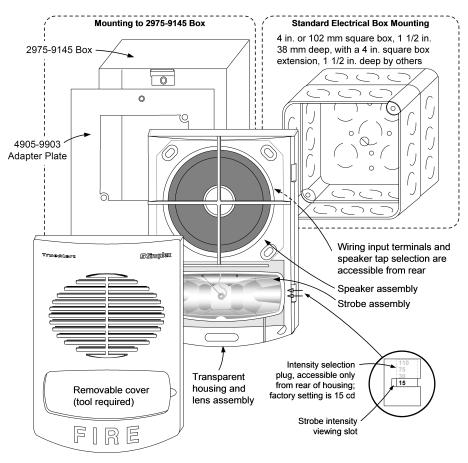


Figure 4: Wall mount installation reference

