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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 (refer to 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



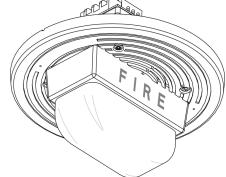


Figure 1: Wall and ceiling mount S/Vs

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. 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 in. square electrical box with extension (see Wall mount installation reference). 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 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 *S4905-0003*.

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, 30, 75, or 110 candela	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)			deep
4906-9158	White	Red (ALERT)	UL	strobe intensity selectable as: 15,	Strobe lens protrusion = 2 5/8 in. or 67 mm above speaker
4906-9159	White	Blank	UL	30, 75, or 110 candela	housing
					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 mount, requires adapter plate 4905-9903			
	(this box may be available for retrofit a	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 FIRE 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 FIRE 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*		AWG OF 0.02 Milling 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		See Ceiling mount S/V installation reference and 2905-9946 tile bridge dimensions

* Refer to data sheet **S4905-0003** for additional flash control module information

S/V specifications

Table 8: Common specifications Specification Rating 32°F to 122°F or 0°C to 50°C; 10% to 93%, non-condensing at 100°F or 38°C Environmental Connections Terminal blocks for 18 AWG to 12 AWG or 0.82 mm² to 3.31 mm²; two wires for each terminal for in/out wiring . ..

		Table 9	9: Speaker spe	ecifications					
Specification		Rating							
Input voltage		25 VRMS	or 70.7 VRMS	, see Note	1 below				
Power taps		1/4 W, 1/2	2 W, 1 W, and	2 W					
	Fire Alarm	400 Hz to	4000 Hz						
Frequency response	General signaling	General signaling 125 kHz to 12 kHz							
Cnasker eutnut Datinge	Wattage tap				1/4 W	1/2 W	1 W	2 W	
Speaker output Ratings @ 10 ft or 3 m (see Note	UL Listed Models, Reverbera	, Reverberant Chamber Test, per UL 1480			76 dBA	79 dBA	82 dBA	85 dBA	
1 below)	Wall Mount Models 4906-9151 and 490 Chamber Test, per ULC-S541		6-9153 , Ane	choic	77 dBA	80 dBA	83 dBA	86 dBA	
	Ceiling Mount Model 4906-9	157 , per	25 VRMS Inp	out	81.6 dBA	84.3 dBA	87.1 dBA	89.7 dBA	
	ULC-S541		70.7 VRMS I	nput	80.9 dBA	84.1 dBA	87.3 dBA	90.2 dBA	
Polar Dispersion Reference (per ULC-S541 Anechoic		Attenuat	ion	Angle	I	Attenuation	Angle	2	
Chamber Testing)		-3 dB +/-		+/- 30° off-axis		-6 dB	+/- 55	+/- 55° off-axis	

			Table 10: Strobe	specifications		
Specifica	ition		Rating			
Rated voltage range			Regulated 24 VDC;	16 VDC to 33 VDC, s	ee Note 2 below	
Flash rat	e and synchronized NAC loading	5	1 Hz; with up to 35	synchronized strobe	es maximum for each NA	١C
	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	1	
Wall	Maximum RMS current rating per	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	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:

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

The maximum RMS strobe current listed is the device nameplate rating. Strobe designs are constant wattage and the maximum RMS current 2. 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

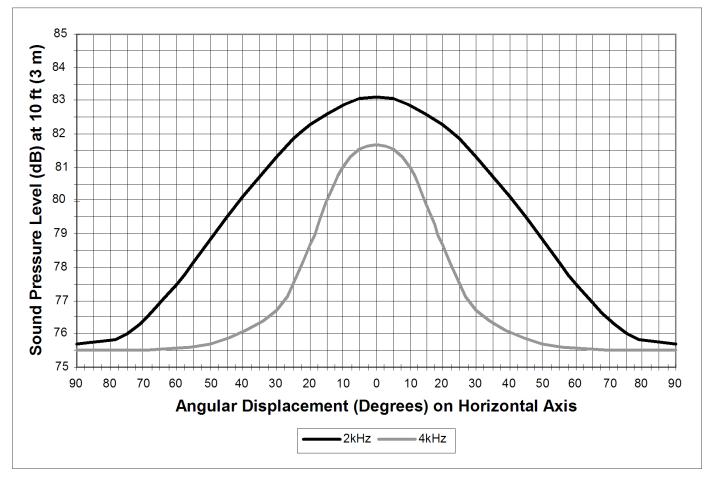
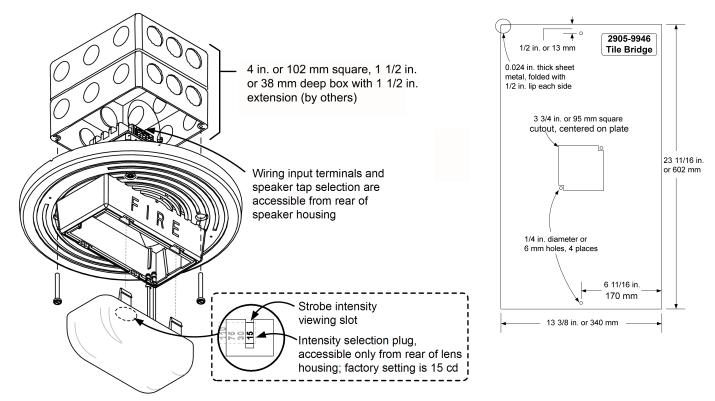


Figure 2: Speaker directional characteristics reference

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

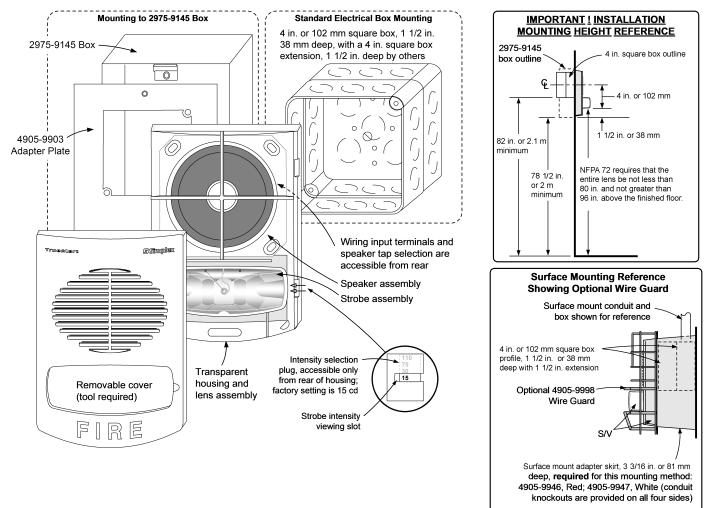
The illustration shows the mounting of a 4905-9903 Adapter plate to the 2975-9145 box.



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

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