

Features

Audible/visible notification appliance with multi-tapped speaker and high intensity xenon strobe

Speaker details:

- 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
- Compliant with NFPA 72, 520 Hz Low Frequency Signal Requirements for Sleeping Areas

TrueAlert Non-Addressable visible notification appliance (strobe):

- Models available with 15, 75, or 110 candela
- 24 VDC operation with switch selection for free-run or synchronized flash rate
- Listed to UL 1971 and ULC S526
- Compatible with ADA requirements. Refer to [Installation references](#).
- Strobe candela rating is clearly indicated on reflector
- Rugged, high impact, flame retardant thermoplastic housing available in red or white (covers are available separately to convert color)
- UL listed red wire guard is available for surface or semi-flush mounting

Notification appliance design provides:

- Flexible, easy, and convenient flush or surface wall box mounting
- Separate in/out wiring terminals for speaker and strobe, 18 AWG to 12 AWG

Description

TrueAlert non-addressable speaker/visible (S/V) notification appliances combine a multi-tapped speaker and a high intensity strobe to provide audio/tone notification and visible notification from the same appliance.

Speakers and strobes are wired separately. The speaker is multi-tapped with taps available for either 25 VRMS or 70.7 VRMS and the strobe is selectable for either free-run or synchronized operation.



Figure 1: S/V Appliances are available in red with white lettering and white with red lettering

Strobe selection

Proper selection of visible notification is dependent on occupancy, location, local codes, and proper applications of: the National Fire Alarm 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).

Strobe operation

TrueAlert non-addressable S/V strobes can be set for free-run operation or synchronized operation using an on-board selection switch. When selected for synchronized operation, flash operation is controlled from:

- **Simplex Fire Alarm Control Units** providing NACs selected to product Simplex strobe synchronization signals (refer to control unit data sheet for details)
- **Synchronized Flash Modules**, 4905-9914 (Class B) or 4905-9922 (Class A)
- **4009 IDNet NAC Extender**, models 4009-9201 and 4009-9301 (refer to data sheet S4009-0002)

Product selection

Speaker/Visible Wall Mount Notification Appliances with TrueAlert Non-Addressable Strobes

Table 1: Red with white FIRE lettering

Model	Strobe output rating
4903-9356	15 cd
4903-9357	75 cd
4903-9358	110 cd

Table 2: White with red FIRE lettering

Model	Strobe output rating
4903-9359	15 cd
4903-9360	75 cd
4903-9361	110 cd

Table 3: Mounting adapters and boxes

Model	Description	Dimensions
4905-9946	Surface mount red adapter skirt	Required when mounting to surface mounted electrical box, 4 in. square, 1 1/2 in. deep with 1 1/2 in. deep extension
4905-9947	Surface mount white adapter skirt	
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 applications)	7 7/8 in. H x 5 1/8 in. W x 2 3/4 in. D or 200 mm x 130 mm x 70 mm

Table 4: Synchronized flash control modules

Model	Description	Dimensions
4905-9914	Synchronized Flash Module, Class B (Style Y) operation	Epoxy encapsulated with in/out 18 AWG or 0.82 mm ² wire leads, rated for 2 A NAC, requires 5 mA for power (refer to data sheet S4905-0003 for additional flash control module information)
4905-9922	Synchronized Flash Module, Class A (Style Z) operation	

Table 5: Covers and guard (covers are for replacement or color conversion)

Model	Description	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 x 35 mm
4905-9997	White S/V cover with red FIRE lettering	
4905-9998	Wire guard with mounting plate, red, compatible with surface and semi-flush boxes (UL listed by Space Age Electronics Inc.)	8 3/8 in. H x 6 1/16 in. W x 3 1/4 in. D or 213 mm x 154 mm x 79 mm

Installation references

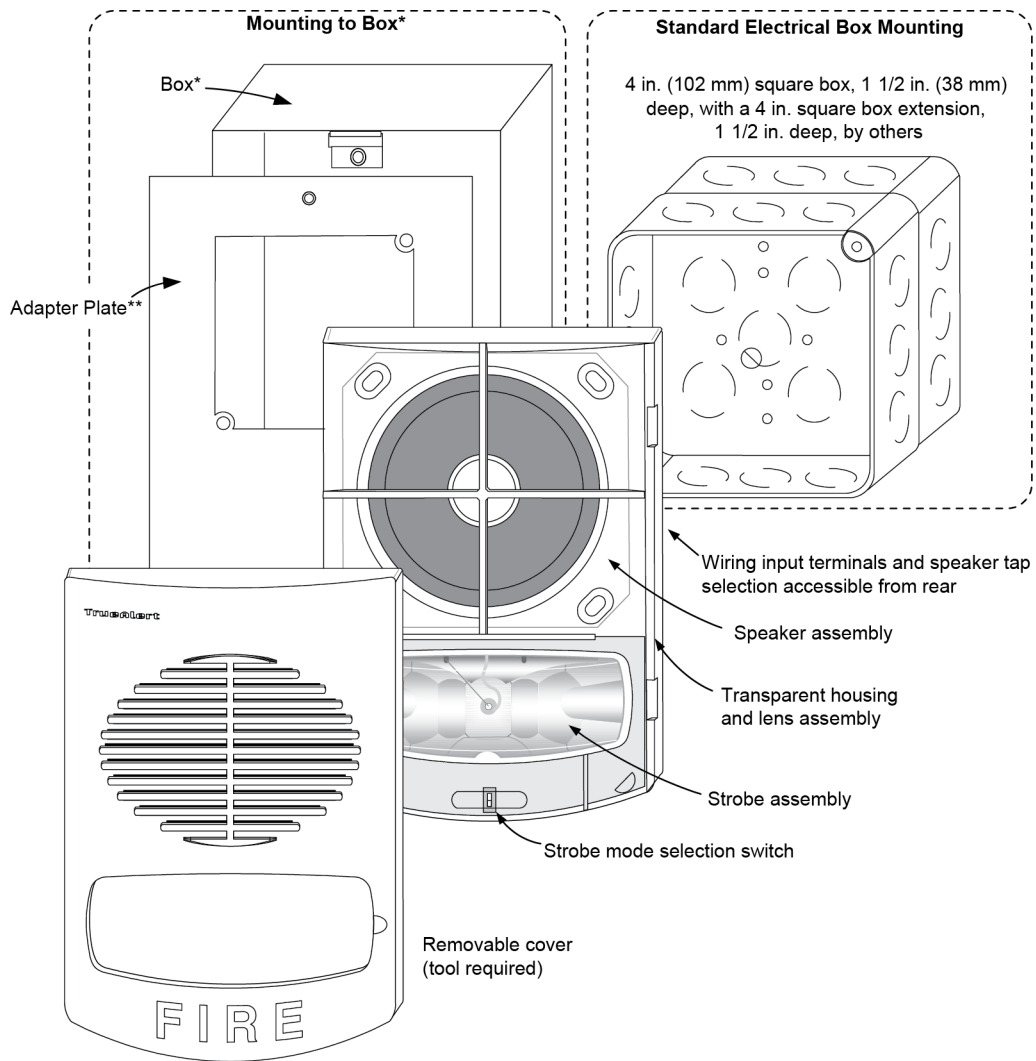


Figure 2: Mounting reference

*2975-9145

**4905-9903

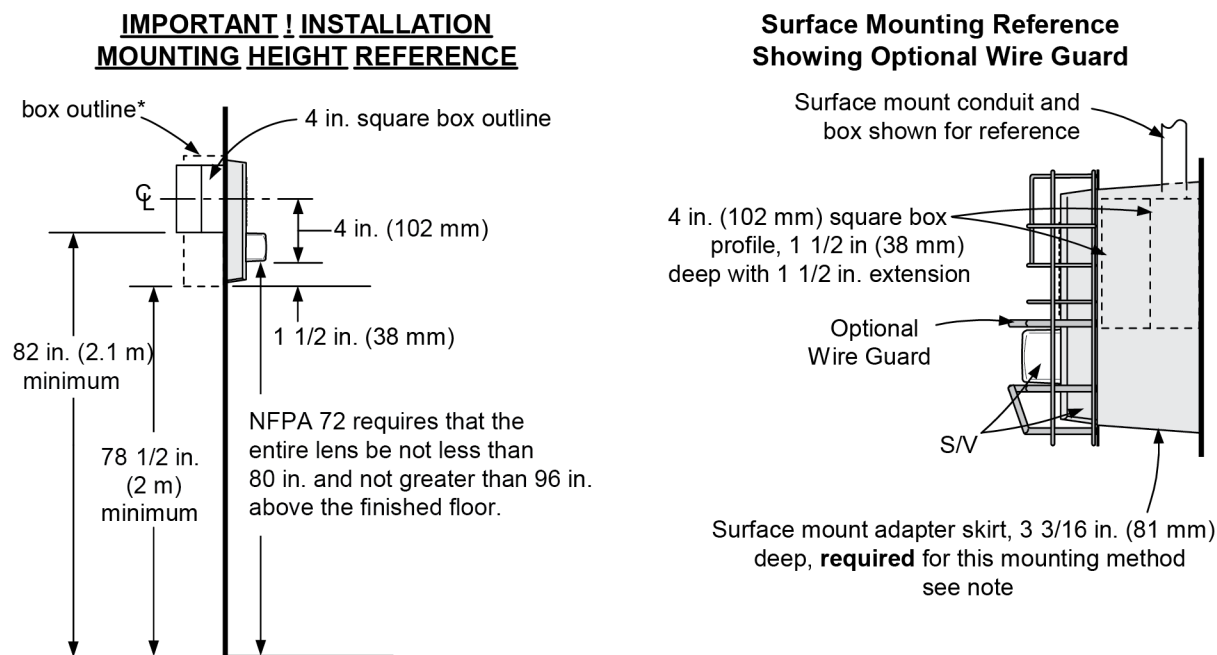


Figure 3: Surface mounting reference

*2975-9145
**4905-9998

Note: Red adapter skirt 4905-9946; white adapter skirt 4905-9947. Conduit knockouts are provided on all four sides

S/V specifications

Table 6: Strobe specifications

Specification		Rating			
Rated voltage range		Regulated 24 VDC; see note 1 below			
Flash rate and synchronized NAC loading		1 Hz; with up to 35 synchronized strobes maximum for each NAC			
Maximum RMS current rating for each strobe output (see note 2 below)		15 cd	75 cd	110 cd	110 cd
		63 mA	199 mA	253 mA	253 mA
Reference currents at other voltages	18 VDC	56 mA	177 mA	225 mA	225 mA
	24 VDC	42 mA	133 mA	169 mA	169 mA

Table 7: Speaker specifications

Specification		Rating			
Input voltage		25 VRMS or 70.7 VRMS, see note 3 below			
Power taps		1/4 W, 1/2 W, 1 W, and 2 W			
Fire alarm frequency response		400 Hz to 4000 Hz			
Speaker output ratings	Wattage tap	1/4 W	1/2 W	1 W	2 W
	Reverberant Chamber Test per UL 1480 @ 10 ft (~3 m)	80 dBA	83 dBA	86 dBA	89 dBA
	Anechoic Chamber Test, per ULC S541 @ 3 m (~10 ft)	77 dBA	80 dBA	83 dBA	86 dBA
Speaker Polar Dispersion Reference (per ULC S541 Anechoic Chamber Testing)		Attenuation	Angle	Attenuation	Angle
		-3 dB	+/- 30° off axis	-6 dB	+/- 55° off axis

Table 8: General specifications

Specification	Rating
Housing dimensions (including lens)	4 3/4 in. x 6 7/8 in. x 2 5/8 in. D or 121 mm x 175 mm x 67 mm
Depth into box	2 3/4 in. or 70 mm
Speaker tap selection	Single jumper wire with pressure connector, attaches to one of 8 terminals
Temperature range	32°F to 122°F or 0°C to 50°C
Humidity range	10% to 93%, non-condensing at 100°F or 38°C
Connections	Terminals for 18 AWG to 12 AWG or 0.82 mm ² to 3.31 mm ² , separate terminals for speaker and strobe connections
Installation instructions	579-118

Note:

1. "Regulated 24 VDC" refers to the voltage range of 16 VDC to 33 VDC per UL Standard 1971, Signaling Devices for the Hearing Impaired. This voltage range is the absolute operating range. Operation outside of this range may cause permanent damage to the appliance. Please note that 16 VDC is the lowest operating voltage that is allowed at the last appliance on the NAC under worst case conditions. The strobe of this A/V is field selectable for free-run or synchronized operation.
2. The maximum RMS 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.)
3. Speakers are for connection to conventional fire alarm audio circuits.

