

UL, ULC, CSFM Listed; FM Approved*

TrueAlert Multi-Candela Notification Appliances

Multi-Candela, High Intensity (non-addressable) Strobe and Horn/Strobe

Features

24 VDC high intensity notification appliance common features:

- Xenon strobe with intensity selectable as 135, 177, or 185 candela; visible selection jumper is secured behind strobe housing
- Regulated circuit design ensures consistent flash output and provides controlled inrush current
- Control is compatible with Simplex SmartSync two-wire operation
- · Operation is compatible with ADA requirements
- Rugged, high impact, flame retardant thermoplastic housings available in red or white with clear lens
- · Models are available for wall or ceiling mount
- Strobe operation is UL listed to Standard 1971

Appliances with audible notification (horn):

- Low current electronic horn with harmonically rich sound output suitable for either steady or coded operation (Temporal or 60 BPM March Time pattern)
- Horn operation is UL listed to Standard 464

Strobes provide synchronized flash for use with:

- Simplex fire alarm control panels and NAC Extenders when selected to provide strobe synchronization or SmartSync two-wire control
- Separate strobe Synchronization Modules or SmartSync Control Modules (SCMs) that convert conventional NAC inputs to a Smartsync output

SmartSync two-wire operation provides:

 Horns controlled separately from strobes on the same two-wire circuit, activated as Temporal pattern, March Time pattern (at 60 BPM), or on continuously

Wall mount appliance features:

- Wiring terminals are accessible from the front of the housing providing easy access for installation, inspection, and testing
- · Covers are available separately to convert housing color
- A/V models have an available UL listed sound damper for locations requiring attenuation of 5 to 6 dBA (stairwells, small rooms, highly reverberant areas, etc.)

Optional adapters and wire guards:

- Wall mount A/V adapters are available to cover surface mounted electrical boxes and to adapt to 2975-9145 boxes
- UL listed red wire guards are available for wall or ceiling mount A/Vs.

Description

Convenient Selection and Installation

TrueAlert multi-candela high intensity appliances provide convenient installation to standard electrical boxes. They are both impact and vandal resistant and provide a convenient strobe intensity selection. Since each model can be selected for strobe intensity output, onsite model inventory is minimized and changes encountered during construction can be easily accommodated.

Wall Mount

Housings are a one-piece assembly (including lens) that mounts to a single or double gang, or 4" square standard electrical box. The cover can be quickly removed (a tool is required) and covers are available separately for color conversion.

Ceiling Mount

Strobe appliances install using standard single gang electrical boxes. Horn/strobe appliances install using standard 4" electrical boxes. Color choice is determined by model number.

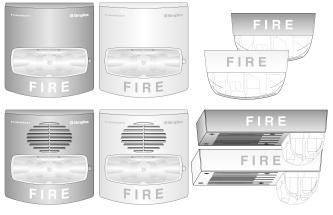


Figure 1: High Intensity Strobes and Horn/Strobes

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.

Strobe Application 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).

SmartSync Two-Wire Control

SmartSync operation mode allows a two-wire circuit to provide the ability to activate both the horn and strobe on the same NAC and then allow the horn to be silenced while the strobe remains flashing. The horn operates as "on-until-silenced" while the strobe operation is "on-until-reset."

SmartSync Control Sources

SmartSync two-wire control is available from:

4006, 4007ES Hybrid, 4008, 4010, 4010ES, 4100ES, and 4100U Fire Alarm Control Panels (refer to individual product data sheets for more information)

4009 IDNet NAC Extenders (refer to data sheet *\$4009-0002*) SmartSync Control Module (SCM) Model 4905-9938 (refer to data sheet *\$4905-0003*)

* This product has been approved by the California State Fire Marshal (CSFM) pursuant to Section 13144.1 of the California Health and Safety Code. See CSFM Listing 7125-0026:333 for allowable values and/or conditions concerning material presented in this document. Additional listings may be applicable; contact your local product supplier for the latest status.



Multi-Candela, High Intensity (non-addressable) Strobe and Horn/Strobe

				Table 1: Strobe	e (V/O) Product Selection					
Model	Housing		Lettering	Mount	ing	Description					
4906-9109	Red		White) M (all	-						
4906-9111	White		Red	Wall		Multi-candela strobe with intensity selectable as: 135, 177, or 185 car					
4906-9110	Red		White	Ceiling		synchronized flash rate; SmartSync two-wire control compatible					
4906-9112	White		Red	Cennig							
			Та	ble 2: Horn/Str	obe (/	A/V) Product Selection					
Model		Housing	Lettering	Mounting	De	escription					
4906-9139		Red	White								
4906-9141	906-9141		Red	Wall	Horn and multi-candela strobe with intensity selectable as: 135, 177, or 18						
4906-9140		Red	White	Ceiling	ca	ndela; synchronized flash rate; op	perates with SmartSync two-wire control				
4906-9142		White	Red	Cening							
			т	able 3: Wall Mo	ount C	Common Accessories					
Model	Descrip	otion					Dimensions				
4905-9937	Red	Surface N	Aount Adapter Skir	t: use to cover	2" (38 mm) deep surface	5-3/8" H x 5-1/4" W x 1-5/8" D (136 mm					
4905-9940	White	mounted	Surface Mount Adapter Skirt; use to cover 1-1/2" (38 mm) deep surface mounted boxes 4-3/8" (111 mm)								
4905-9931	vertical	or horizonta	al)	ly for retrofit, may be mounted	8-5/16" x 5-3/4" x 0.060" Thick (211 mm x 146 mm x 1.5 mm)						
4905-9838			ound Damper; pac reduces output 5 to		d inst	talled adhesive backed horn	1-3/4" Diameter (44.5 mm) with 0.31" (8				
1909 9090	After So	und Dampe e requireme		ure sound leve	ensure compliance with applica-	mm) sound opening 					
V/O Model	A/V Mo		scription			Dimensions					
4905-9992	4905-99					white "FIRE" lettering	5-1/8" H x 5" W x 1-1/2" D (130 mm x				
4905-9993	4905-99	995 Wh	ite Wall Mount Rep	lacement cove	n red "FIRE" lettering	127 mm x 38 mm)					
				Table 4: Wire	Gua	rds and Adapters					
Model	Descrip						Dimensions				
4905-9961*	mounte	d boxes		te, for semi-flush or surface	6-1/16" H x 6-1/16" W x 3-1/8" D (154 mm x 154 mm x 79 mm)						
4905-9926	V/O Ceil boxes	ling Mount F	Red Wire Guard wit	or semi-flush or surface mounted	d 6-1/8" x 4-3/8" x 2-7/8" deep (156 mm > 111 mm x 73 mm)						
4905-9927*		0	ed Wire Guard for	8-1/2" x 6-1/8" x 3" (216 mm x 156 mm 76 mm)							
4905-9928*				surface mounted electrical box							
4905-9910		sing 4905-99	926 guard		d 4-7/8" x 3-1/8" x 0.060" D (124 mm x 79 mm x 1.5)						
4905-9915 4905-9916	White Red	Ceiling Mo deep surfa	4-3/4" x 6-7/8" x 1-1/2" deep, (121 mm 175 mm x 38 mm)								

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Installation Reference, Surface or Semi-Flush Mounting

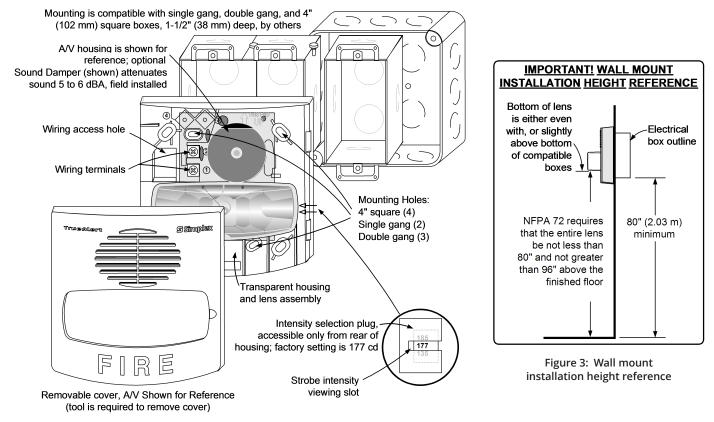


Figure 2: Installation reference, surface or semi-flush mounting

Note: Figure 2 shows optional 4905-9838 sound damper.

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Ceiling Mount High Candela Appliances Installation Reference

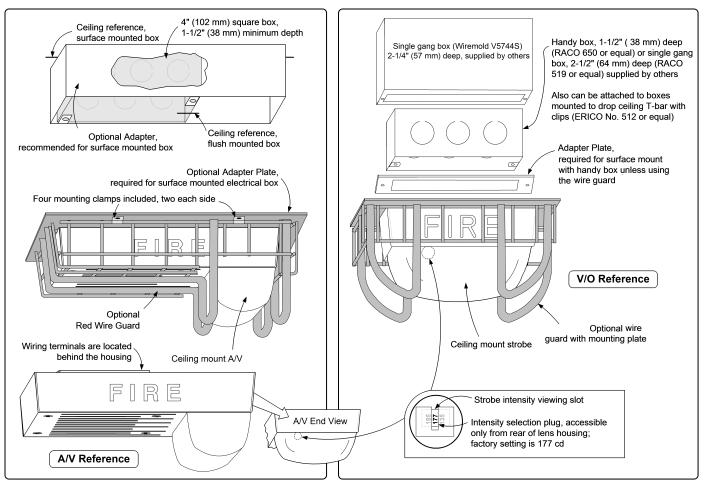


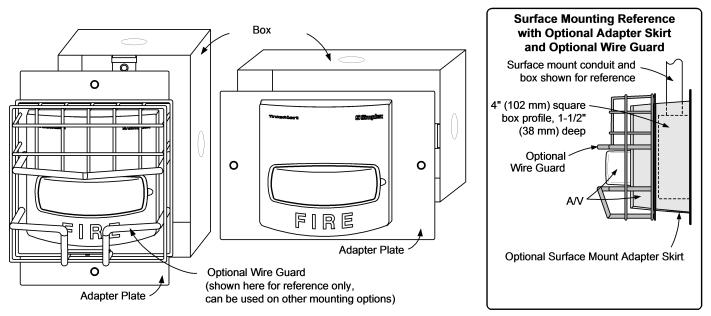
Figure 4: Ceiling Mount High Candela Appliances Installation Reference

Note: Figure 4 shows:

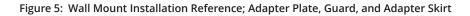
- Optional 4905-9915/4905-9916 Adapter for A/V installation, recommended for surface mounted box
- Optional A/V 4905-9927 Red Wire Guard
- 4905-9910 Adapter Plate, required for surface mount V/O installation with handy box unless using the 4905-9926 wire guard
- Optional 4905-9926 wire guard with mounting plate for V/O installation

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Wall Mount Installation Reference; Adapter Plate, Guard, and Adapter Skirt



Note: Figure 5 shows:

- 1. 4905-9931 Adapter Plate
- 2. 4905-9961 Optional Wire Guard
- 3. 2975-9145 back box
- 4. Optional Surface Mount Adapter Skirt, 1-1/2" deep: 4905-9937, Red; 4905-9940, White (conduit knockouts are provided on all four sides)

V/O shown for reference, A/V mounts the same.

Specifications

Refer to Instructions 579-859 for additional information.

				Table 5	: Specification	IS						
Specification			Rating									
UL Listed Rating			Regulated 24 DC; see Note 1 below									
Rated Voltage Range ULC Listed Rating		l Rating	20 VDC to 30 VDC per ULC S526-M878									
Flash Rate and Synchronized NAC Loading				1 Hz; with up to 35 synchronized strobes maximum per NAC								
Environmental; Temperature and Humidity				32° to 122° F (0° to 50° C); 10% to 93%, non-condensing at 100° F (38° C)								
Screw Terminal Connections				18 AWG to 12 AWG (0.82 mm2 to 3.31 mm2); two wires per terminal for in/out wiring								
A/V and V/O Wall Mount			5-1/8" H x 5" W x 2-3/4" D (130 mm x 127 mm x 70 mm)									
Dimensions (with lens)		V/O Ceiling Mou	unt	4-3/4" L x 2-5/16" W x 2-5/8" D (121 mm x 75 mm x 67 mm)								
		A/V Ceiling Mou	int	4-3/4 L" x 6-7/8" W x 2-5/8" D (121 mm x 175 mm x 67 mm)								
Horn Output Characteristics				2400 to 3700 Hz sweep, modulated at 120 Hz rate								
•				Steady Sou	nd Output		Coded Sou	Coded Sound Output (see Note 2 below				
		. UL 464 Rever	UL 464 Reverberant		Ceil	ing Mount	Wall Moun	t Ce	eiling Mount			
A/V Horn Rating			Chamber		86 dBA 87 dBA			82 dBA 83 dBA				
(3 m); at 24 VDC	. (See Note 2)	Anechoic Cha	Anechoic Chamber		92 dBA 93 dBA			92 dBA 93 dBA				
Angular Dispersion			ersion	Per ULC S525; -3 dB at 45° off-axis for both wall and ceiling mount models								
		I		Visible Only (V/O)			Audible/Visible (A/V)					
	Maximum RMS Current Rating per			135 cd	177 cd	185 cd	135 cd	177 cd	185 cd			
Wall Mount	Strobe Setting (see Note 3 below)			330 mA	410 mA	430 mA	350 mA	440 mA	455 mA			
	Reference R	MS Currents at	18 VDC	279 mA	347 mA	364 mA	296 mA	372 mA	385 mA			
	other voltag	ges .	24 VDC	209 mA	260 mA	273 mA	222 mA	279 mA	289 mA			
				Visible Only	/ (V/O)		Audible/Vi	Audible/Visible (A/V)				
	Maximum RMS Current Rating per			135 cd	177 cd	185 cd	135 cd	177 cd	185 cd			
Ceiling Mount	Strobe Setting (see Note 3 below)			356 mA	431 mA	447 mA	389 mA	456 mA	463 mA			
	Reference RMS Currents at		18 VDC	316 mA	383 mA	397 mA	346 mA	405 mA	412 mA			
	other voltag	ges	24 VDC	237 mA	287 mA	298 mA	259 mA	304 mA	309 mA			
Note:	ouner voitag	;45	Z4 VDC	237 INA	287 MA	298 MA	259 MA	304 MA	309 m			

Note:

 "Regulated 24 DC" refers to the voltage range of 16 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.

2. Coded values are typical of the output measured with a Temporal pattern or a March Time coded pulse and with a sound level meter reading on a "fast" setting. Under the same test conditions, coded horn output "peak" sound level readings are typically 4 dBA higher. Anechoic horn output ratings are typically more representative of actual installed sound output.

 Currents are with horn on steady. 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.)

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