# **9** Simplex

# TrueAlert Multi-Candela Notification Appliances

UL, ULC, CSFM Listed; FM Approved\* Multi-Candela, High Intensity (non-addressable) Strobe (V/O) and Horn/Strobe (A/V)

# 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<sup>®</sup> SmartSync two-wire operation
- Operation is compatible with ADA requirements (refer to important installation information on page 3)
- 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:

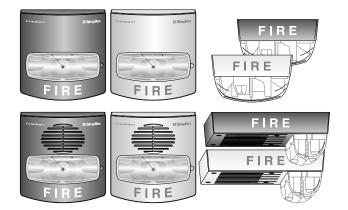
• Horns controlled separately from strobes on the same two-wire circuit, activated as Temporal pattern, March Time pattern (at 60 BPM), or on continuously

### 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 Simplex 2975-9145 boxes
- UL listed red wire guards are available for wall or ceiling mount A/Vs



Wall and Ceiling Mount High Intensity Strobes (top) and Horn/Strobes (bottom)

# 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, on-site 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.

# **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).

<sup>\*</sup> 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 Simplex product supplier for the latest status. Listings and approvals under Simplex Time Recorder Co. are the property of Tyco Fire Protection Products.

# SmartSync Two-Wire Control

**Product Selection** 

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 • S4009-0002)
- SmartSync Control Module (SCM) Model 4905-9938 • (refer to data sheet \$4905-0003)

Strobe (V/O)											
Model	Housin	ng	Lettering	Mounting	Description						
4906-9109	Red	-	White								
4906-9111	White	)	Red	Wall	Multi-candela strobe with intensity s						
4906-9110	Red		White		<ul> <li>185 candela; synchronized flash rat compatible</li> </ul>	e; SmartSync two-wire control					
4906-9112	White	)	Red	Ceiling	compatible						
Horn/Strobe	(A/V)			1							
Model	Housin	ng	Lettering	Mounting	Description						
4906-9139	Red	-	White								
4906-9141	White	)	Red	Wall	Horn and multi-candela strobe with						
4906-9140	Red White			Coiling	185 candela; synchronized flash rate; operates with SmartSync two- wire control						
4906-9142	White	Э	Red	Ceiling							
Wall Mount Common Accessories											
Model	Descript	ion				Dimensions					
4905-9937	Red	Surf	ace Mount Adap	ter Skirt: use	to cover 1-1/2" (38 mm) deep	5-3/8" H x 5-1/4" W x 1-5/8" D					
4905-9940	White		ace mounted box			(136 mm x 133 mm x 41 mm) depth w/strobe = 4-3/8" (111 mm)					
4905-9931			Plate for mountin ted vertical or ho		2975-9145 box (typically for retrofit,	8-5/16" x 5-3/4" x 0.060" Thick (211 mm x 146 mm x 1.5 mm)					
4905-9838A/V only; Optional Sound Damper; package of 20; field installed adhesive backed horn output attenuator; reduces output 5 to 6 dBA1-3/4" Diameter (44.5 mm) with 0.31" (8 mm) sound openi4905-9838NOTE: After Sound Damper installation, measure sound level to ensure compliance with applicable code requirements1.3/4" Diameter (44.5 mm)											
		100 11	ian applicable co	de requirerne	11.5						
V/O Model	<u>A/V</u> Mod		Description			Dimensions					
<u>V/O</u> Model 4905-9992		del	Description Red Wall Moun	t Replacemer	nt cover with white "FIRE" lettering	5-1/8" H x 5" W x 1-1/2" D					
	<u>A/V</u> Mod	<b>del</b> 994	Description Red Wall Moun	t Replacemer							
4905-9992 4905-9993	<u>A/V</u> Mod 4905-99 4905-99	<b>del</b> 994 995	Description Red Wall Mount White Wall Mount	t Replacemer	nt cover with white "FIRE" lettering	5-1/8" H x 5" W x 1-1/2" D (130 mm x 127 mm x 38 mm)					
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4905-9992 4905-9993 Synchroniza Model	A/V Mod 4905-99 4905-99 ation Mo Descripti Class B Class A	del 994 995 dule ion 18 for	Description <u>Red</u> Wall Mount <u>White</u> Wall Mount <b>Reference</b> (re nchronized Flash AWG (0.82 mm <sup>2</sup> power; for use v	t Replacemer nt Replacemer fer to data she Module; epo ) wire leads, vith V/O only	nt cover with white "FIRE" lettering ent cover with red "FIRE" lettering eet S4905-0003 for additional informatio pxy encapsulated with in/out rated for 2 A NAC, requires 10 mA when not supplied from panel	5-1/8" H x 5" W x 1-1/2" D (130 mm x 127 mm x 38 mm) n) <b>Dimensions</b> 1-3/8" x 2-7/16" x 13/16" (35 mm x 62 mm x 20 mm)					
4905-9992 4905-9993 Synchroniza Model 4905-9914	A/V Mod 4905-99 4905-99 ation Mo Descripti Class B Class A SmartSy	del 994 995 dule ion 18 for nc Co	Description <u>Red</u> Wall Mount <u>White</u> Wall Mount <b>Reference</b> (ren nchronized Flash AWG (0.82 mm <sup>2</sup> power; for use we pontrol Module with	t Replacement nt Replacement fer to data she Module; epo ) wire leads, vith V/O only th Class B or	nt cover with white "FIRE" lettering ent cover with red "FIRE" lettering eet S4905-0003 for additional informatio pxy encapsulated with in/out rated for 2 A NAC, requires 10 mA	5-1/8" H x 5" W x 1-1/2" D (130 mm x 127 mm x 38 mm) n) <b>Dimensions</b> 1-3/8" x 2-7/16" x 13/16"					
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4905-9992 4905-9993 Synchroniza 4905-9914 4905-9922 4905-9938 Wire Guards Model 4905-9961*	A/V Mod 4905-99 4905-99 ation Mo Descripti Class B Class A SmartSy (102 mm and Ad Descripti A/V or V surface r V/O Ceil surface r A/V Ceil box	del 294 295 dule ion Sy 18 for nc Co 18 for nc Co 0) squ dapte ion //O W moun ing N moun ing N	Description <u>Red</u> Wall Mount <u>White</u> Wall Mount <u>White</u> Wall Mount <b>Reference</b> (red nchronized Flash AWG (0.82 mm <sup>2</sup> ) power; for use w power; for us	t Replacement nt Replacement fer to data she fer to data she for to data she hold to she the Class B or data sheet S for reference vire Guard wi Guard with M Guard for more	nt cover with white "FIRE" lettering ent cover with red "FIRE" lettering eet S4905-0003 for additional informatio boxy encapsulated with in/out rated for 2 A NAC, requires 10 mA when not supplied from panel Class A output; mounts in 4" 4905-0003 for details diagrams) th Mounting Plate, for semi-flush or ounting Plate, for semi-flush or	5-1/8" H x 5" W x 1-1/2" D (130 mm x 127 mm x 38 mm)n) <b>Dimensions</b> 1-3/8" x 2-7/16" x 13/16" (35 mm x 62 mm x 20 mm) $4" x 4-1/8" x 1-1/4" D (102 mm x 105 mm x 32 mm)$ $1000000000000000000000000000000000000$					
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4905-9992         4905-9993         Synchroniza         Model         4905-9914         4905-9922         4905-9938         Wire Guards         Model         4905-9938         Wire Guards         4905-9961*         4905-9926         4905-9927*         4905-9928*	A/V Mod 4905-99 4905-99 ation Mo Descripti Class B Class A SmartSy (102 mm and Ad Descripti A/V or V surface r V/O Ceil surface r A/V Ceil box Red Ada electrical Surface I box; not	del         394           394         395           dule         ion           ion         Sy           18         for           nc Ci         squ           ion         apte           ion         ion           //O W         moun           ing N         pter           // D W         moun           ing N         moun           ing N         moun           where the second secon	Description <u>Red</u> Wall Moun <u>White</u> Wall Moun <u>Reference</u> (re nchronized Flash AWG (0.82 mm <sup>2</sup> ) power; for use w ontrol Module with lare box; refer to ers (see page 4 fl <u>Vall Mount Red Wire 0</u> ted boxes Mount Red Wire 0 ted boxes Mount Red Wire 0 Mount Red Wire 0 ted boxes Mount Red Wire 0 ted boxes Mount Red Wire 0 Plate, required ted ted boxes Mount Red Wire 0 ted boxes Mount Red Wire 0 Plate, required ted ted boxes Mount Red Wire 0 Mount Red Wire 0 Plate, required ted ted boxes Mount Red Wire 0 Ted boxes Mount Red Wire	t Replacement int Replacement fer to data she by Module; epo by wire leads, with V/O only th Class B or data sheet S for reference vire Guard with M Guard with M Guard for more pomount 4905 zinc plated; r	nt cover with white "FIRE" lettering ent cover with red "FIRE" lettering eet S4905-0003 for additional informatio boxy encapsulated with in/out rated for 2 A NAC, requires 10 mA when not supplied from panel Class A output; mounts in 4" 4905-0003 for details diagrams) th Mounting Plate, for semi-flush or ounting Plate, for semi-flush or unting to <u>flush</u> mounted electrical -9927 guard to <u>surface</u> mounted <b>required for mounting to handy</b>	$\begin{array}{c} 5-1/8" \ \mbox{H x 5" W x 1-1/2" D} \\ (130 \ \mbox{mm x 127 \ \mbox{mm x 38 \ \mbox{mm}})} \\ \mbox{n} \\ \hline \mbox{n} \\ \hline \mbox{Dimensions} \\ \hline 1-3/8" \ \ x \ 2-7/16" \ \ x \ 13/16" \\ (35 \ \ \ mm \ \ x \ 6-2 \ \ mm \ \ x \ 20 \ \ \ mm)} \\ \hline \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$					

\* UL listed by Space Age Electronics Inc.

#### **Specifications** (refer to Instructions 579-859 for additional information)

Rated Voltage Range		UL List	ed Rating	Regulated 24 DC; see Note 1 below								
		ULC List	ed 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 mm <sup>2</sup> to 3.31 mm <sup>2</sup> ); 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	7 mm x 70 mm	)			
Dimensions (with lens) V/O Ceiling Mount A/V Ceiling Mount			4-3/4" L x 2-5/16" W x 2-5/8" D (121 mm x 75 mm x 67 mm)									
			4-3/4 L" x 6-7/8" W x 2-5/8" D (121 mm x 175 mm x 67 mm)									
Horn Output	Characteristic	S		2400 to 3700	) Hz swe	eep, mo	dulated at 120	Hz rate				
•				Steady Sound Output				Coded Sound Output (see Note 2)				
A/V Horn Ratings, dBA @ 10 ft (3 m); at 24 VDC (see Note 2)		UL 464 Reverberant Chamber		Wall Mount		Ceiling Mount		Wall Mount		Ceiling Mount		
				86 dBA		87 dBA		82 dBA		83 dBA		
		Anechoic Chamber		92 dBA		93 dBA		92 dBA		93 dBA		
Angular Dispersion				Per ULC S525; -3 dB at 45° off-axis for both wall and ceiling mount models								
	Maximum RMS Current Rating per Strobe Setting (see Note 3 below)			Visible Only (V/O)				Audible/Visible (A/V)				
				135 cd 177 cd 185 cd 135 cd 177 c		cd	185 cd					
Wall Mount –				314 mA	314 mA 390 mA		409 mA	333 mA	418 mA		433 mA	
	Reference RM	IS Currents	18 VDC	279 mA	347 mA 260 mA		364 mA	296 mA 37		mA	385 mA	
	at other voltag	es	24 VDC	209 mA			273 mA	222 mA	279 mA		289 mA	
	Maximum RMS Current Rating per Strobe Setting (see Note 3 below)			Visible Only (V/O)				Audible/Visible (A/V)				
Ceiling Mount				135 cd	177	' cd	185 cd	135 cd	177	cd	185 cd	
				356 mA	431	mA	447 mA	389 mA	456 i	mA	463 mA	
	Reference RM	IS Currents	18 VDC	316 mA	383	mA	397 mA	346 mA	405 ı	mA	412 mA	
	at other voltag	es	24 VDC	237 mA	287	mA	298 mA	259 mA	304 ı	mA	309 mA	

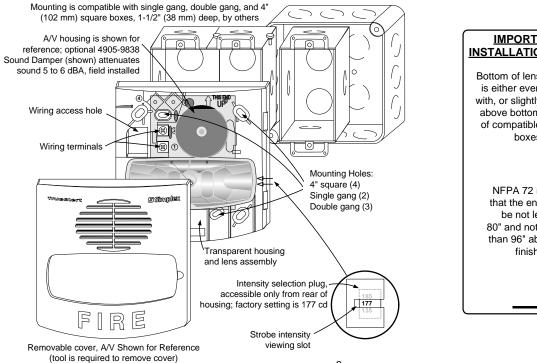
#### NOTES:

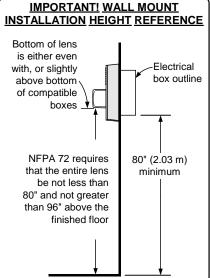
1. "Regulated 24 DC" refers to the voltage range of 16 to 33 VDC per UL Standard 1971, *Signaling Devices for the Hearing Impaired*. This voltage range is the absolute operating range. Operation outside of this range may cause permanent damage to the appliance. Please note that 16 VDC is the lowest operating 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.

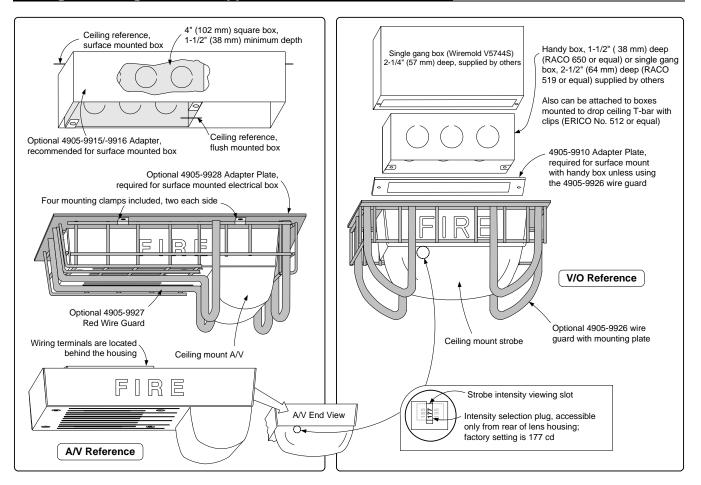
3. Currents are with horn on steady. The maximum RMS current listed is the device nameplate rating. Strobe designs are constant wattage and the maximum RMS current rating occurs at the lowest allowable operating voltage. (RMS is root mean square and refers to the effective value of a varying current waveform.)

# Installation Reference, Surface or Semi-Flush Mounting

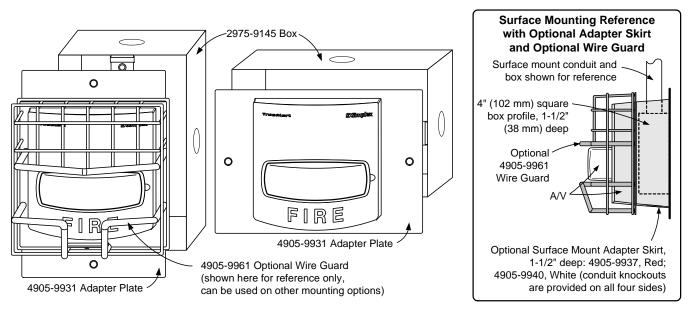




# Ceiling Mount High Candela Appliances Installation Reference



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



NOTE: V/O is shown for reference, A/V mounts the same

Simplex

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