

# **TrueAlert Multi-Candela Notification Appliances**

UL, ULC, CSFM Listed; FM Approved\* Weatherproof Notification Appliances (non-addressable) Wall Mount Visible Only (V/O) and Audible/Visible (A/V)

# Features

# Weatherproof 24 VDC notification appliances for extended temperature and extended humidity operation:

- NEMA 3R rated enclosure with ratings for indoor or outdoor applications.
- Rugged, high impact, flame retardant thermoplastic housings are available in red or white, with a clear lens.
- Red housings are for indoor or outdoor applications and provide UV light stable color.
- White housings are for indoor applications with limited UV light exposure.
- Mounting is to matching weatherproof boxes (required), ordered separately.
- Wiring terminals are accessible from the front of the housing providing easy access for installation, inspection, and testing.

#### Agency listings reference:

- UL listed to Standard 1638 for outdoor applications with strobe rated at 75 cd (WP75).
- UL listed to Standard 1971 for indoor applications with strobe intensity selectable as 15, 60, or 75 candela; indoor applications are compatible with ADA requirements (refer to important installation information on page 4).
- Separate models are ULC listed to Standard S526 (strobes) and S525 (horns) for outdoor applications with strobe intensity selectable as 5, 20, or 30 candela (available in red only).

#### **Operation details:**

- A visible intensity selection jumper is secured behind the strobe housing.
- Polarized input allows connection to compatible reverse polarity, supervised notification appliance circuit (NAC).
- Regulated circuit design ensures consistent flash output and provides controlled inrush current.
- A/V appliances have an efficient electronic horn.

#### Synchronized strobe compatibility:

- 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.







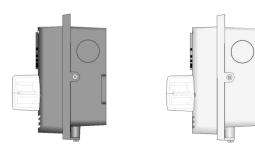


Figure 1: Weatherproof A/V (top) and strobe (middle), side view of A/V on weatherproof mounting boxes (bottom)

# Description

**Weatherproof multi-candela TrueAlert appliances** provide VO and A/V SmartSync operation for indoor and outdoor, extended temperature and extended humidity applications. The enclosures are impact and vandal resistant and provide a convenient strobe intensity selection. Because each model can be selected for intensity output, on-site model inventory is minimized and changes encountered during construction are easily accommodated.

# Strobe intensity selection

During installation, use the selection plug at the back of the housing to determine the strobe intensity. Use the attached flag with black letters on a yellow background to see the selected intensity at the side of the strobe lens.

\* 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 7125-0026:331 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.

#### Strobe application reference

Correct selection of weatherproof notification is dependent on occupancy, location, local codes, and correct 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). Requirements may differ from indoor appliance applications, contact your local authority having jurisdiction (AHJ) to assist in determining requirements.

#### SmartSync two-wire control

SmartSync operation mode means that a two-wire circuit can activate both the horn and strobe on the same NAC, then the horn can be silenced while the strobe remains flashing. The horn operates as "on-until-silenced" while the strobe operation is "on-until-reset."

Table 1: UL Listed TrueAlert Weatherproof Multi-Candela Notification Appliances

# 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 S4905-0003.
- Additional SmartSync compatible notification appliances include separate horns and combination horn/strobe notification appliances.

# **Product selection**

Model	Туре		Housing	FIRE lettering	Descript	tion		UL 1971	UL 1638 intensity rating
4906-9105	$\sim$ Strobe (V())		Red	White				15 cd, 60	
4906-9106			White	Red		UL listed weatherproof appliance with multi-candela		cd, or 75	75 cd (setting
4906-9131	———Horn/Strobe (A/V)		Red	White strobe; re		trobe; requires weatherproof box below		cd, or 75	WP75)
4906-9132			White					cu	
			Table 2: ULC Lis	sted TrueAlert V	Veatherpro	of Multi-Candela No	tification Appliances		
Model		Туре		Housing		FIRE lettering	Description	ULC inte	nsity ratings
		Strobe (V Horn/Stro	,	Red		White	appliance with multi- candela strobe; requir	ULC listed weatherproof appliance with multi- candela strobe; requires weatherproof box below	
				Table 3: Wall m	nount weat	herproof boxes, req	uired		
SKU		Descript	tion				Dimensions		
49WPBB-AVVC	DWR	Red	Surface mount	weatherproof	mounting	ooxes	5 1/2 in. H x 6 1/8 in. W x mm x 41 mm)	(15/8 in. D (	140 mm x 156
49WPBB-AVVOWW		White	Surface mount weatherproof mounting boxes			5 1/2 in. H x 6 1/8 in. W x mm x 41 mm)	1/2 in. H x 6 1/8 in. W x 1 5/8 in. D (140 mm x 156 nm x 41 mm)		
			Table 4: After	market red bili	ngual (Fren	ch/English) covers, f	or field installation		
Model		Descript	ion						
4905-9832		Red strok	be (V/O) cover						
4905-9833		Red horn cover	/strobe (A/V)	White "FEU/FIRE" lettering					
		Table 5: S	ynchronization	Module Referer	nce, refer t	o data sheet S4905-0	003 for additional information	on	

SKU	Descriptio	n	Dimensions		
4905-9914	Class B	Synchronized Flash Module; epoxy encapsulated with in/out 18	1 3/8 in. x 2 7/16 in. x 13/16 in. (35 mm x 62 mm x		
4905-9922	Class A	AWG (0.82 mm <sup>2</sup> ) wire leads, rated for 2 A NAC, requires 10 mA for power	20 mm)		
4905-9938	SmartSync ( mm) square	Control Module with Class B or Class A output; mounts in 4 in. (102 e box	4 in. x 4 1/8 in. x 1 1/4 in. D (102 mm x 105 mm x 32 mm)		

# **Specifications**

Specifications	
Rated voltage range	Regulated 24 VDC; see Note 1
Flash rate	1 Hz; up to 24 synchronized strobes maximum for each NAC
Temperature range UL 1971 listed rating	32° F to 122° F (0° to 50° C); selectable 15 cd/30 cd/75 cd

# **5** Simplex

# Weatherproof Notification Appliances (non-addressable) Wall Mount Visible Only (V/O) and Audible/Visible (A/V)

Specifications		
	UL 1638 listed rating	-31°F to 150°F (-35° C to 66°C); 75 cd rating
	ULC S526 and S525 listed rating	-40°F to 150°F (-40° C to 66°C); 5 cd/20 cd /30 cd rating
lumiditu ranga	UL 1971 listed rating	10% to 93%, at 100° F (38° C)
lumidity range	UL 1638, ULC S526, and ULC S525	up to 98%, at 104 °F (40° C)
Wiring connectio	ons	Terminal blocks for 18 AWG to 12 AWG (0.82 mm <sup>2</sup> to 3.31 mm <sup>2</sup> ); two wires for each terminal for in/out wiring

#### Table 6: Horn output; Models 4906-9131, 4906-9132, and 4906-9143; UL and ULC ratings as noted

Output sound characteristics		2400 Hz to 3700 Hz sweep, modulated at 120 Hz rate						
	Voltage	16 VDC		24 VDC		33 VDC		
Horn output ratings @	Sound type (see Note 2)	Steady	Coded	Steady	Coded	Steady	Coded	
10 ft (3 m) (see Note 2)	UL 464 reverberant chamber	80 dBA	76 dBA	83 dBA	79 dBA 86	86 dBA	81 dBA	
	ULC S525 anechoic chamber	96 dBA	96 dBA	99 dBA	99 dBA	101 dBA	101 dBA	

#### Table 7: Maximum RMS current ratings, see Note 3

15 cd	60 cd	75 cd		-31° F to below 32°F	
			C to 66°C)	(-35° C to 0° C)	
77 mA	192 mA	231 mA	189 mA	273 mA	
91 mA	204 mA	249 mA	205 mA	277 mA	
ULC S526/	'S525 ratings a	ccording to inter	nsity selection		
5 cd		20 cd	30	cd	
115 mA	115 mA		295	295 mA	
125 mA	125 mA 275		322	2 mA	
	ULC S526/ 5 cd 115 mA	ULC S526/S525 ratings a 5 cd 115 mA	ULC S526/S525 ratings according to inter 5 cd 20 cd 115 mA 270 mA	ULC S526/S525 ratings according to intensity selection5 cd20 cd115 mA270 mA	

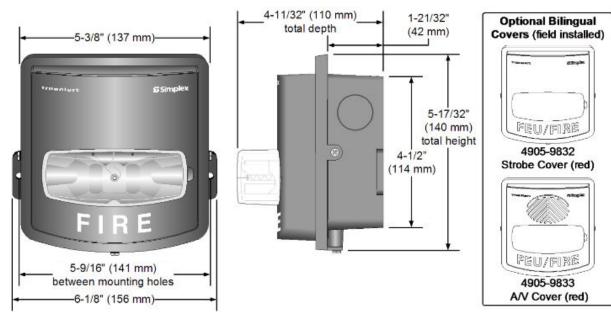
#### Note:

1. "Regulated 24 VDC" refers to the voltage range of 16 VDC to 33 VDC in accordance with UL 1971 and UL 1638. This voltage range is the absolute operating range. Operation outside of this range may cause permanent damage to the strobe. 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 coded 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 of A/Vs 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.

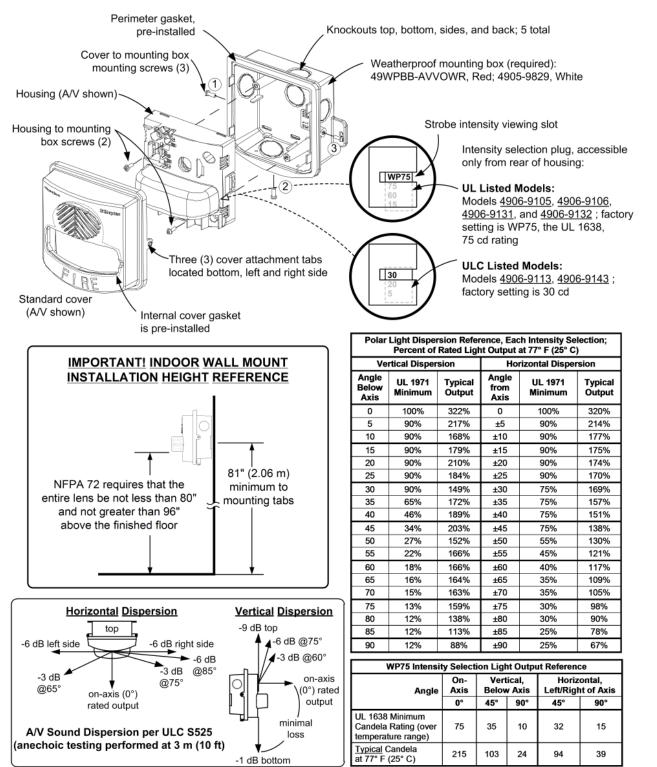
# Dimension and optional cover reference



# Weatherproof appliance installation reference

#### Note:

For detailed installation information, refer to Installation Instructions 579-857 for UL listed products, and Installation Instructions 579-885 for ULC listed products.



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