

TrueAlert Addressable Notification Appliances

Wall Mount Addressable Speaker Visible (S/V) Notification Appliances

UL, ULC Listed; FM Approved*

Introduction

Wall mount indoor and outdoor Addressable Speaker Visible (S/V) Notification Appliances are individually powered, addressed, and controlled from a Simplex fire alarm control panel IDNAC Signaling Line Circuit (SLC). Audio is supplied from a separate compatible Simplex Fire Alarm Control Panel audio NAC. Wiring supervision is electronically monitored allowing audio and IDNAC wiring to be T-tapped for Class B wiring, reducing wiring costs and wiring distances.

Installation on standard 4 inch square 2 1/8 inch deep USA electrical boxes for flush installations (provided by others) or WP backboxes (order below) for surface or WP installations.

Appliances are available in 400 - 4000 Hz and 200 – 10000 Hz high fidelity models. Separate appliance and cover selection greatly simplifies the ordering and installation process. Model numbers ending in –BA are assembled in the USA. For more detailed information, consult datasheet S49SWC-0001.

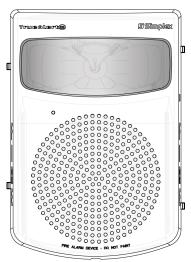


Fig 1: Wall Mount Addressable Speaker/ Visible Notification Appliance

Product Selection

Table 1: TrueAlert ES Wall Mount Addressable Speaker S/V Appliances

SKU**	Description
49SV-APPLW	Select cover, mounting plate, and weatherproof box (if required)
49SV-APPLW-BA	separately.

Table 2: High Fidelity H/F Appliances

SKU**	Description
49HFV-APPLW	High Fidelity S/V Appliance Only. Select cover, mounting plate, and
49HFV-APPLW-BA	weatherproof box (if required) separately.

^{*}Additional listings may be applicable, contact your local Simplex ® product supplier for the latest status. Listings and approvals under Simplex Time Recorder Co.



Table 3: S/V Covers (Required when ordering APPLW models)

SKU	Color	Wording	
49SVC-WRALT	Red	Alert	
49SVC-WWALT	White	Aleit	
49SVC-WRBA	Red	i	
49SVC-WWBA	White	FIRE/حريق	
49SVC-WRBC	Red	火警/FIRE ALARM	
49SVC-WWBC	White	八音/FIRE ALARIVI	
49SVC-WRBF	Red	FEU/FIRE	
49SVC-WWBF	White		
49SVC-WRFEU	Red	- FEU	
49SVC-WWFEU	White	TEO	
49SVC-WRFIRE	Red	FIRE	
49SVC-WWFIRE	White	FIRE	
49SVC-WRS	Red	Simplex logo only	
49SVC-WWS	White	Simplex logo only	

Table 4: S/V Wall Lens

Lens	Color
49SV-LENS-AMBER	Amber
49SV-LENS-BLUE	Blue
49SV-LENS-GREEN	Green
49SV-LENS-RED	Red

Weatherproof Product Selection

Table 5: Weatherproof Wall Mount Addressable Speaker S/V Appliances

SKU	Description
49SV-APPLW-O	
49SV-APPLW-O-BA	S/V Appliance only. Select cover, mounting plate and weatherproof back box separately.
49SV-APPLW-CO	

Table 6: S/V Covers (Required when ordering APPLW-O models)

SKU	Color	Wording
49SVC-WRBA-O	Red	S
49SVC-WWBA-O	White	FIRE/ حــريق
49SVC-WRBC-O	Red	小数/CDC ALADAA
49SVC-WWBC-O	White	火警/FIRE ALARM
49SVC-WRBF-O	Red	FEU/FIRE
49SVC-WWBF-O	White	PEO/FIRE
49SVC-WRFEU-O	Red	FEU
49SVC-WWFEU-O	White	reo
49SVC-WRFIRE-O	Red	FIRE
49SVC-WWFIRE-O	White	FIRE
49SVC-WRALT-O	Red	ALERT
49SVC-WWALT-O	White	ALERI
49SVC-WRS-O	Red	Simplex logo only
49SVC-WWS-O	White	Jiiiipiex logo offily

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Table 7: Weatherproof Back Boxes

SKU Color		Description		
49WPBB-SVWR	Red	Weatherproof back box in red		
49WPBB-SVWW	White	Weatherproof back box in white		

Table 8: Wire Guards and Wire Guard Back Boxes

SKU	Description
49WGBB-SVWR-O	Wire Guard Back Box, Wall, Red, WP
49WGBB-SVCR-O	Wire Guard Back Box, Ceiling, Red, WP
49WG-SVWCR	Wire Guard, Wall, Red

Table 9: S/V Wall Mount Back Plate

SKU	Description
49MP-SVWR	Mounting back plate in red
49MP-SVWW	Mounting back plate in white

Wall Mount S/V Specifications

Table 10: Appliance General Specifications

Dimensions	7 3/8" H x 5" W x 1 3/4" D (139mm x 128mm x 42mm)
Environmental	32° to 120° F (0° to 49° C); 10% to 93%, non-condensing at 104° F (40° C)
Connections	Terminal blocks for 18 AWG to 12 AWG (0.82 mm ² to 3.31 mm ²); two wires per terminal for in/out wiring. Use Unshielded Twisted Pair (UTP) for IDNAC and audio wiring.
Installation Instructions	579-1190 (Wall Mount S/V Appliance), 579-1193 (Wall Mount back plate), 579-1192 (Wall Mount S/V Colored Lens kit)

Table 11: Speaker Audio Specifications

Input Voltage	25 or 70.7 Vrms	
Power Taps	14, 1/2, 1, and 2 W	
Frequency Response	400 to 4000 Hz (S/V), 200 to 10000 Hz (H/F)	General Signaling = 125 Hz to 12 kHz

Table 12: S/V Speaker Output Ratings 25 or 70.7 Vrms @ 10 ft (3 m)

Wattage Tap	1/4 W		1/2 W		1 W		2 W	
Model	S/V	H/F	S/V	H/F	S/V	H/F	S/V	H/F
Reverberant Chamber Test, per UL 1480 (dBA)	79	76	83	80	86*	82	89*	86*
Anechoic Chamber Test, per ULC-S541 (dBA)	81	78	84	81	88*	84	90*	87*
* Note: Select taps as indicated to satisfy the ULC fire alarm applications requirement of 85 dBA minimum								

Table 13: Polar Dispersion Reference (per ULC-S541 Anechoic Chamber Testing)

Attenuation	Angle	Attenuation	Angle
-3 dB	75°	-6 dB	85°

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Table 14: Percentage of rated light output at room temperature

Angle	On-Axis	Vertical, Below Axis		Horizontal, Left/Right of Axis	
Aligie	0°	45°	90°	45°	90°
UL required output	100%	34%	12%	75%	25%
Typical output	194%	90%	45%	121%	41%

Table 15: IDNAC SLC Specifications

Typical Operating Voltage Range	23 - 30 VDC, Special Application		
Appliance voltage design reference	23VDC (with 6VDC drop)		
Supervisory Requirements	1 unit load (= 0.8 mA control panel current)		
Flash Rate and Synchronized SLC Loading	1 Hz; with up to 63 synchronized strobes maximum per NAC		
IDNAC SLC Loading	Maximum of 127 addresses per SLC, 139 unit loads. See device and compatible Fire Panel Installation Instructions for circuit current load limits.		
	UTP, unshielded twisted pair recommended		
NAC SLC Wiring Specifications (refer to control panel installation structions for more information)	Maximum wire length allowed with "T-Taps" for Class B wiring per SLC = 10,000 ft (3048 m)		
	Maximum wire length to any appliance = 4000 ft (1219 m). This can be doubled to 8000ft (2438m) by using a 4009 IDNAC Repeater.		

Table 16: Current Consumption***

Candela Setting	15 cd	30 cd	75 cd	110 cd	135 cd	185 cd
Clear/White Lens	47 mA	57 mA	100 mA	132 mA	160 mA	208 mA
Tinted Lens	54 mA	78 mA	128 mA	184 mA	211 mA	N/A
***Measured at 23 VDC on IDNAC Addressable SLC						
Note: Speakers are for connection to compatible fire alarm audio circuits. Anechoic ratings are representative of actual installed sound output.						

Equipment Compatibility References

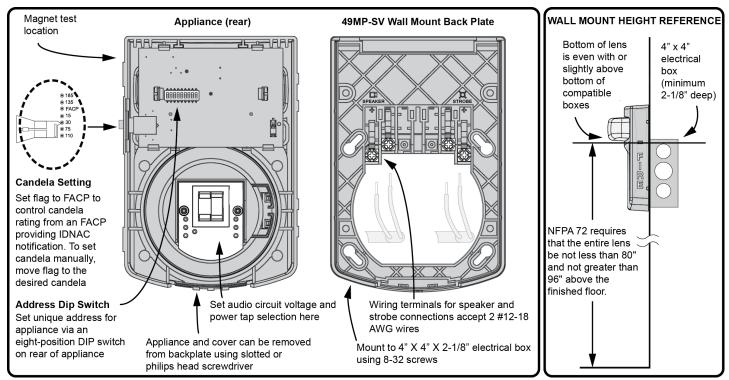
Table 17: Equipment Compatibility References

Compatible Controllers	Data Sheet Reference	
4100ES with EPS+ or EPS Power Supply	S4100-0100	
4009 IDNAC Repeater	S4009-0004	
4100ES Flex 35 and 50 Watt Amplifiers		
4100ES 100 Watt Amplifiers	S4100-0034	
4100ES Constant Supervision and Audio NACs		

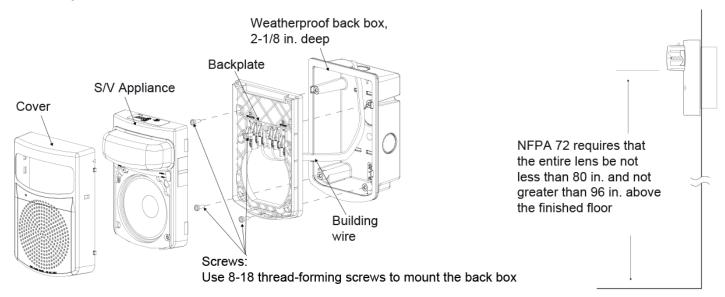
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Wall Mount S/V Installation Reference



Weatherproof Wall Mount S/V Installation Reference



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