

UL, ULC Listed; FM Approved*

TrueAlert Addressable Notification Appliances

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

Introduction

Ceiling Mount Addressable Speaker Visible (S/V) Notification

Appliances are individually powered, addressed, and controlled from the Simplex Fire Alarm Control Unit IDNAC Signaling Line Circuit (SLC). Audio is supplied from a separate compatible Simplex Fire Alarm Control Unit 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 surface/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. Separate appliance and cover selection greatly simplifies the ordering and installation process. For more detailed information, please consult datasheet S49SWC-0001.



Figure 1: Ceiling Mount Addressable Speaker/Visible Notification Appliance

Ceiling Mount Addressable Speaker Product Selection

Table 1: Ceiling Mount Addressable Speaker S/V Appliances

Model	Description	Installation Instructions			
49SV-APPLC	S/V appliance only. Select				
	cover and surface/WP box (if	579-1203			
49SV-APPLC-BA	required) separately.				

Table 2: High Fidelity Appliances

Model	Description Installation instructions			
49HFV-APPLC	19HFV-APPLC High Fidelity S/V appliance only. Select cover and			
49HFV-APPLC-BA	surface/WP box (if required) separately.	579-1203		

Table 3: High Candela Appliances

Model Description		Installation instructions
49SVH-APPLC-BA	High Candela S/V appliance only. Select cover and	579-1203
49SVH-APPLC	weatherproof box (if required) separately.	579-1203

Table 4: High Fidelity High Candela Appliances

SKU	Description	Installation instructions
49HFVH-APPLC	High Fidelity High Candela S/V Appliance Only. Select	
49HFVH-APPLC-BA	cover and surface/WP box (if required) separately.	
49HFVH-APLCA-BA	High Fidelity High Candela S/V Appliance with amber colored lens. Select cover and surface/ WP box (if required) separately.	579-1203
49HFVH-APLCB-BA	High Fidelity High Candela S/ V Appliance with blue colored lens. Select cover and surface/ WP box (if required) separately.	

Table 5: S/V Covers (Required when ordering APPLC models)

SKU	Color	Wording
49SVC-CRALT	Red	AI FRT
49SVC-CWALT	White	ALERI
49SVC-CRBA	Red	
49SVC-CWBA	White	FIRE/حريق
49SVC-CRBC	Red	火警 /FIRE ALARM
49SVC-CWBC	White	人会 / FIRE ALARIM
49SVC-CRBF	Red	FFU/FIRF
49SVC-CWBF	White	FEO/FIRE
49SVC-CRFEU	Red	FFU
49SVC-CWFEU	White	FEO
49SVC-CRFIRE	Red	FIRF
49SVC-CWFIRE	White	FIRE
49SVC-CRS	Red	
49SVC-CWS	White	Simplex logo only
49SVC-CK	Black	No logo or lettering

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

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Weatherproof Product Selection

SKU	Description	Installation instructions	
49SVH-APPLC-O	S/V Appliance Only. Select cover and surface/WP		
405/41 APPLC CO (Canada anhi)	box separately	579-1241	
49SVH-APPLC-CO (Canada only)			
	Table 7: S/V Covers (Required when ordering APPLC-O me	odels)	
SKU	Color	Wording	
49SVC-CRALT-O	Red	ALERT	
49SVC-CWALT-O	White	ALERI	
49SVC-CRBA-O	Red		
49SVC-CWBA-O	White	FIRE/حريق	
49SVC-CRBC-O Red		火警/FIRE ALARM	
49SVC-CWBC-O	White	人響/FIRE ALARIVI	
49SVC-CRBF-O	Red		
49SVC-CWBF-O	White	FEU/FIRE	
49SVC-CRFEU-O	Red	-FEU	
49SVC-CWFEU-O	White	FEU	
49SVC-CRFIRE-O	Red	FIRE	
49SVC-CWFIRE-O	White		
49SVC-CRS-O	Red		
49SVC-CWS-O	White	Simplex logo only	
49SVC-CK-O	Black	1	

SKU	Color	Description	Installation instructions
49WPBB-SVCR	Red	Surface/WP back box in Red	579-1240
49WPBB-SVCW	White	Surface/WP back box in White	575-1240

Table 9: Wire Guards and Wire Guard Back Boxes				
SKU	Description			
49WGBB-SVCR-O	Wire Guard Back Box, Ceiling, Red, WP			
49WG-SVWCR	Wire Guard, Ceiling, Red			

Ceiling Mount S/V Specifications

	Table 10: Ap	pliance Gei	neral Speci	fications					
Specification	Rating								
Dimensions	8 1/8" H x 7 1	/8" W x 3"	D (206mm	ı x 180mm	n x 76mm)				
Environmental	32° to 120° F	(0° to 49°	C); 10% to	93%, nor	-condens	ing 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/ou wiring. Use Unshielded Twisted Pair (UTP) for IDNAC and audio wiring.						hal for in/out		
	Table 11: S	peaker Au	dio Specifi	cations					
Specification	Rating								
Input Voltage	25 or 70.7 Vri	ms							
Power Taps	14, 1⁄2, 1, and 2	W							
Frequency Response	400 to 4000 Hz (S/V, S/VH), 200 to 10000 Hz (H/F, HF/VH) General Signaling = 125 to 12 kHz					.Hz			
	Table 12	2: Speaker (Output Rat	tings					
Wattage Tap		¼ 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*	84	89*	87*
Anechoic Chamber Test, per ULC-S541 (dBA)* 79 78 83 82 86* 85* 89*			89*	88*					
			6.0.5.1			1			

	-	-				-		-
Anechoic Chamber Test, per ULC-S541 (dBA)*	79	78	83	82	86*	85*	89*	88*
* Select taps as indicated to satisfy the ULC fire alarm applications req	uirement	of 85 dBA	minimum					
Polar Dispersion Reference (per ULC-S541 Anechoic Chamber	Attenuatio	on	Angle		Attenuatio	on	Angle	
Testing)	-3 dB		70°		-6 dB		80°	

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Table 13: Percentage of rated light					
Angle On-Axis Vertical, Below Axis Horizontal, Left/Righ					, Left/Right of Axis
Angle	0°	45°	90°	45°	90°
UL required output	100%	45%	25%	45%	25%
Typical output	327%	134%	83%	129%	47%

Table 14: IDNAC SLC Specifications					
Specification	Rating				
Typical Operating Voltage Range	23 VDC to 30 VDC, Special Application				
Appliance voltage design reference	23VDC (with 6VDC drop)				
Supervisory Requirements	1 unit load (= 0.8 mA control unit current)				
Flash Rate and Synchronized SLC Loading	1 Hz; with up to 63 synchronized strobes maximum per powered circuit, max 127 S/V appliances per IDNAC channel				
IDNAC SLC Loading	Maximum of 127 addresses per SLC, 139 unit loads. See device and compatible Fire Control Unit Installation Instructions for circuit current load limits.				
	UTP, unshielded twisted pair recommended				
IDNAC SLC Wiring Specifications (refer to control unit installation instructions 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 15: Current consumption**

Candela Setting	15 cd	30 cd	75 cd	110 cd	135 cd	185 cd
49SV and 49HFV models	59 mA	82 mA	145 mA	193 mA	N/A	N/A
49SVH and 49HFVH models	N/A	N/A	N/A	259 mA	281 mA	325 mA
Weatherproof SV appliances	N/A	N/A	N/A	Inside 110CD = 305 mA Outside 110CD = 308 mA	335 mA	398 mA
** Measured at 23VE	C on IDNAC Address	able SLC		·	·	
Speakers are for con installed sound outp		e fire alarm audio circu	uits. Anechoic speaker	output ratings are typ	pically more represent	ative of actual

Table 16: Equipment Compatibility References

Compatible Equipment	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 Signal Cards	

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Ceiling Mount S/V Installation Reference

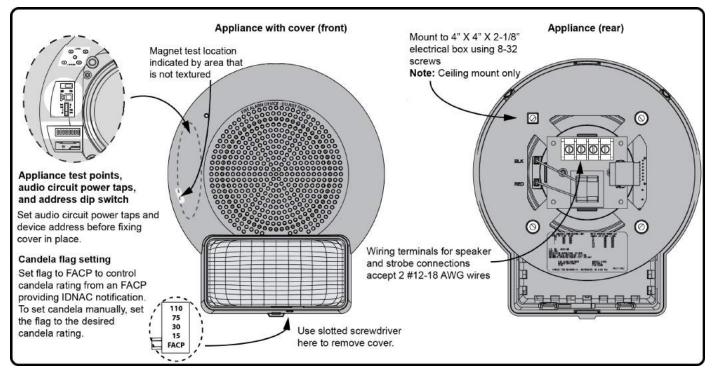


Figure 2: Installation reference

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