



Ceiling Mount 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). S/V notification appliances use a multi-tapped speaker for audio/tone notification and a multi-candela strobe with synchronized 1 Hz flash rate and selectable candela rating.

Wiring supervision is electronically monitored and allows audio wiring to be T-tapped for class B wiring, reducing wiring costs and wiring distances.

Ceiling mount speaker visible appliances are available in 400 - 4000 Hz models and high fidelity models capable of operating between 200 – 10000 Hz.

Separate appliance and cover selection greatly simplifies the ordering and installation process.

For more detailed information, please consult datasheet S49SWC-0001.



Ceiling Mount Addressable Speaker/Visible Notification Appliance

Product Selection

Ceiling Mount Addressable Speaker S/V Appliances

TrueAlert ES Addressable S/V appliance dimensions with cover: 8 1/8" H x 7 1/8" W x 3" D (206 mm x 180 mm x 76 mm)

Model	Description
49SV-APPLC(-BA)	Speaker Visible appliance only. Select cover separately.

High Fidelity Appliances

Model	Description
49HFV-APPLC(-BA)	High Fidelity appliance only. Select cover separately.

High Candela Appliances

Model	Description
49SVH-APPLC(-BA)	High Candela appliance only. Select cover separately.

High Fidelity High Candela Appliances

Model	Description
49HFVH-APPLC(-BA)	High Fidelity High Candela appliance. Select cover separately.
49HFVH-APLCA-BA	High Fidelity High Candela appliance with amber colored lens. Select cover separately.
49HFVH-APLCB-BA	High Fidelity High Candela appliance with blue colored lens. Select cover separately.

S/V Covers (Required when ordering APPLC models)

Model	Color	Wording	Model	Color	Wording
49SVC-CRALT	Red	ALERT	49SVC-CWALT	White	ALERT
49SVC-CRBA		ق يرح /FIRE	49SVC-CWBA		ق يرح /FIRE
49SVC-CRBC		火警/FIRE ALARM	49SVC-CWBC		火警/FIRE ALARM
49SVC-CRBF		FEU/FIRE	49SVC-CWBF		FEU/FIRE
49SVC-CRFEU		FEU	49SVC-CWFEU		FEU
49SVC-CRFIRE		FIRE	49SVC-CWFIRE		FIRE
49SVC-CRS		Simplex logo only	49SVC-CWS		Simplex logo only
49SVC-CK	Black	No logo or lettering			

* **Note:** (-BA) indicates model is available either with or without the -BA suffix. Model numbers ending in -BA are assembled in the USA

* 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

IDNAC SLC Controller Compatibility Reference

Compatible Controllers	Data Sheet Reference	Controller Output	IDNAC SLC Output Voltage	Appliance Voltage Design Reference
4100ES with EPS+ or EPS Power Supply	S4100-0100	IDNAC SLC	29 VDC (regulated)	23 VDC (with 6 VDC drop)
4009 IDNAC Repeater	S4009-0004			
4100ES Flex 35, 50, and 100 Amplifiers	S4100-0034			
4100ES Constant Supervision and Signal Cards				

Ceiling Mount S/V Specifications

Specifications (See page 1 for appliance dimensions)

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.
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.
Installation Instructions	579-1203 (49SV, 49SVH and 49HFV models) 579-1206 (Amber/Blue 49HFVH model)

Speaker General Specifications

Input Voltage	25 or 70.7 Vrms	
Power Taps	¼, ½, 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

Speaker Output Ratings 25 or 70.7 Vrms @ 10 ft (3 m)

Wattage Tap Model	¼ W		½ W		1 W		2 W	
	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*	88*

* Select taps as indicated to satisfy the ULC fire alarm applications requirement of 85 dBA minimum

Polar Dispersion Reference (per ULC-S541 Anechoic Chamber Testing)	Attenuation	Angle	Attenuation	Angle
	-3 dB	70°	-6 dB	80°

Percentage of rated light output at room temperature

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

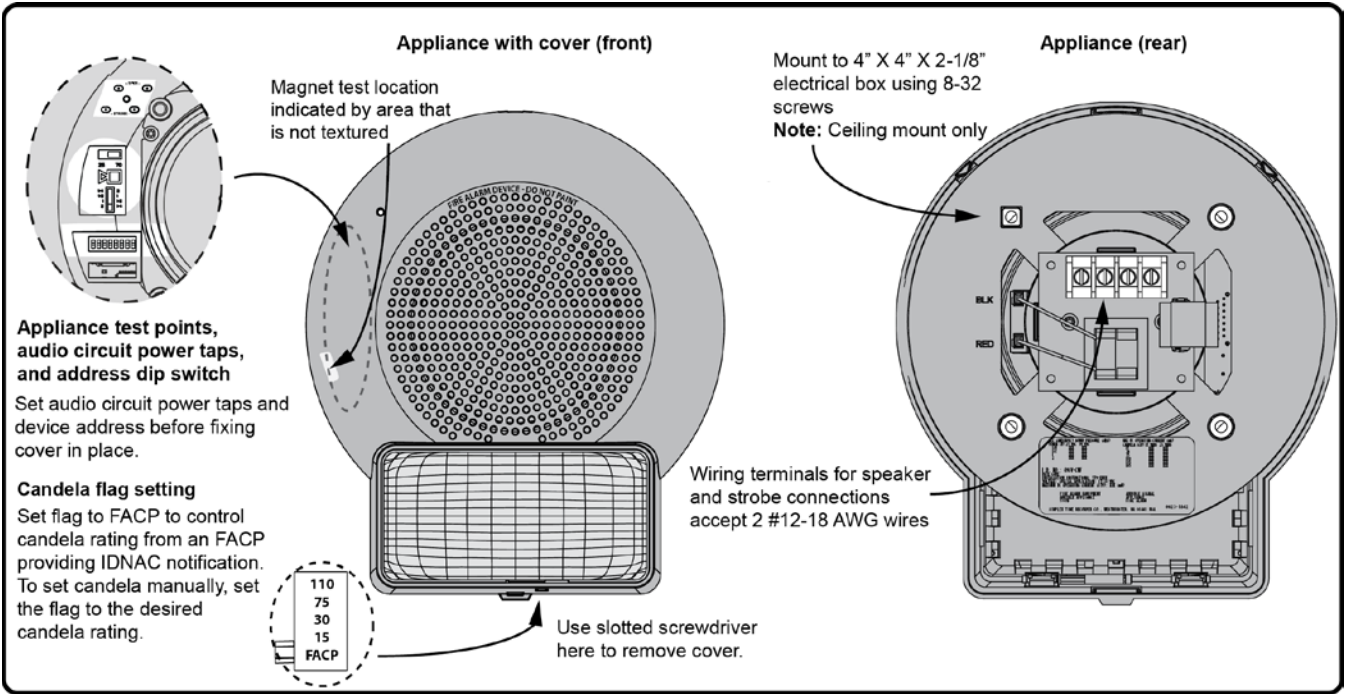
Appliance Specifications

Operating Voltage Range	23 VDC to 30 VDC, Special Application						
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 powered circuit, max 127 S/V appliances per IDNAC channel						
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	235 mA	255 mA	295 mA

** Measured at 23VDC on IDNAC Addressable SLC

Note: Speakers are for connection to compatible fire alarm audio circuits. Anechoic speaker output ratings are typically more representative of actual installed sound output.

Ceiling Mount S/V Installation Reference



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