



Ceiling mount Addressable Speaker (S/O)

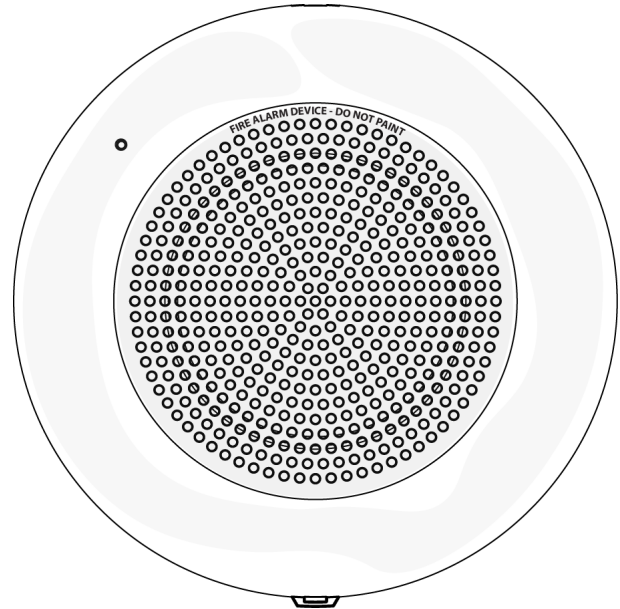
Notification Appliances are individually powered, addressed, and controlled from a Simplex fire alarm control panel IDNAC Signaling Line Circuit (SLC). S/O notification appliances use a multi-tapped speaker for audio/tone notification.

Speakers are wired separately allowing for convenient installation to standard electrical boxes with extensions. 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 S/O appliances are available in a 400 - 4000 Hz model and high fidelity model 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 Notification Appliance

Product Selection

Ceiling Mount S/O Appliances

TrueAlert ES Addressable Ceiling Mount S/O appliance dimensions with cover: 7 1/8" H x 7 1/8" W x 1 1/4" D (180 mm x 180 mm x 32 mm)

Model*	Description
49SO-APPLC(-BA)	S/O Appliance only. Select cover separately.

High Fidelity Ceiling Mount S/O Appliances

Model*	Description
49HF-APPLC(-BA)	High fidelity ceiling mount S/O appliance only. Select cover separately.

S/O Ceiling Mount Covers (Required when ordering APPLC models)

Model	Color	Wording	Model	Color	Wording
49SOC-CK	Black	No logo or label	49SOC-CRFIRE	Red	FIRE
49SOC-CR	Red		49SOC-CRS	Red	Simplex
49SOC-CW	White	ALERT	49SOC-CWS	White	
49SOC-CWALT			49SOC-CRALT	Red	Alert
49SOC-CWFIRE	White	FIRE			

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

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				

* Additional listings may be applicable. Listings and approvals under Simplex Time Recorder Co. are the property of Tyco Fire Protection Products.

Ceiling Mount Speaker 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

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/O), 200 to 10000 Hz (H/F)	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/O	H/F	S/O	H/F	S/O	H/F	S/O	H/F
Reverberant Chamber Test, per UL 1480 (dBA)	79	77	83	81	86	84	90	87
Anechoic Chamber Test, per ULC-S541 (dBA)*	81	78	85	82	88	85	91	88

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

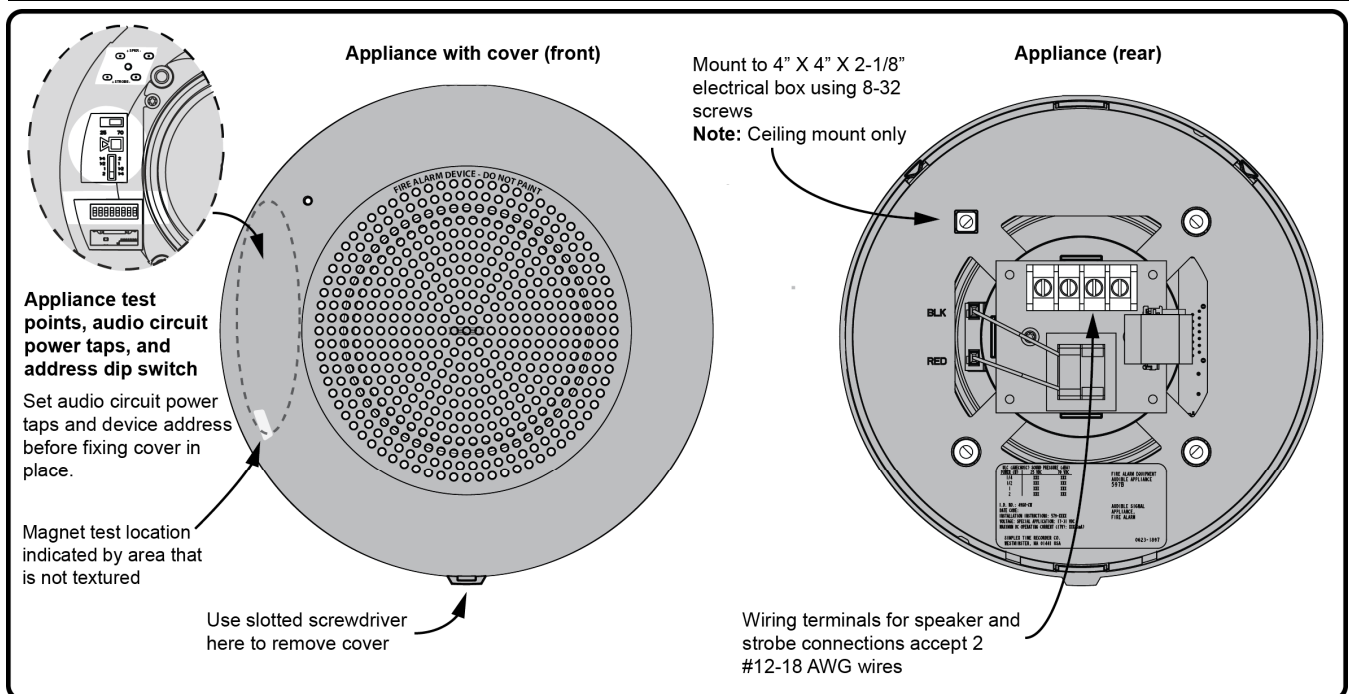
Polar Dispersion Reference (per ULC-S541 Anechoic Chamber Testing)	Attenuation	Angle	Attenuation	Angle
		-3 dB	70°	-6 dB

Appliance Specifications

Typical Operating Voltage Range	23 VDC to 30 VDC, Special Application
Current consumption @ 23 VDC on IDNAC Addressable SLC	9mA
Supervisory Requirements	1 unit load (= 0.8 mA control panel current)

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 Speaker Installation Reference



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