Simplex

Notification Appliances

UL, CSFM Listed;
MEA (NYC) Approved*

Speaker/Visible Appliances; Speaker with
Strobe Selectable as Free-Run or Synchronized

Features

Audible/visible notification appliances with multi-tapped speaker and high intensity xenon strobe

Xenon strobe visible notification appliance:

- UL listed to Standard 1971
- Models are available with 15, 30, or 110 candela
- 24 VDC operation with switch selection for free-run or synchronized flash rate**
- Compatible with ADA requirements (refer to important installation information on page 3)
- Strobe candela rating is clearly indicated on reflector
- Wiring terminals are separate from audible notification appliance
- Impact resistant polycarbonate lens

Audible notification appliance (speaker):

- High quality voice and tone reproduction with taps for 1/4, 1/2, 1, or 2 W, at 25 or 70.7 VRMS
- UL listed to Standard 1480
- Speakers are wired separately from strobe wiring

Housing Options:

- Red with white lettering, for horizontal or vertical mounting
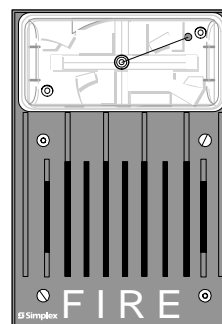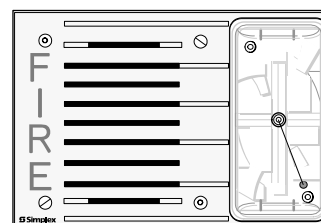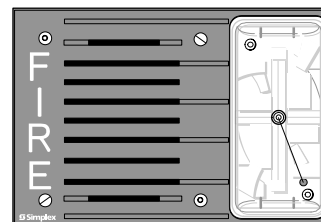- White with red lettering, for horizontal mounting

Description

Speaker/Visible (S/V) notification appliances combine a multi-tapped speaker and a high intensity strobe to provide audio/tone notification and visible notification from the same appliance.

Speakers and strobes are wired separately. The speaker is multi-tapped with taps available for either 25 VRMS or 70.7 VRMS and the strobe is selectable for either free-run or synchronized operation.

Strobe Selection. Proper selection of visible notification is dependent on occupancy, location, local codes, and proper applications of: the *National Fire Alarm 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).

Audible/Visible Notification Appliances with Speakers are Available for Horizontal or Vertical Mounting

Strobe Operation

S/V strobes can be set for free-run operation or synchronized operation using an on-board selection switch. When selected for *synchronized operation*, flash operation is controlled from:

- **Synchronized Flash Modules**, 4905-9914 (Class B) or 4905-9922 (Class A)[†]
- **4006, 4008, 4100U, and 4010 Fire Alarm Control Panels** (refer to individual product data sheets for details)
- **4009 IDNet™ NAC Extender,** models 4009-9201 and 4009-9301 (refer to data sheet S4009-0002)

Product Selection

Model	Strobe Output (Candela)			Color	Mounting Style
	15	30	110		
4903-9150	✓			Red	Horizontal wall mount
4903-9148		✓			
4903-9149			✓		
4903-9193	✓			White	
4903-9194		✓			
4903-9195			✓		
4903-9153	✓			Red	Vertical wall mount (typically for retrofit)

Accessories

Adapter Plates, Gasket Kit, and Adapter Ring Box Extensions (see illustrations on pages 3 and 4)

Model	Description		Dimensions
4905-9903	Red Adapter Plate, **required** to mount S/V on 2975-9145 Boxes		5-3/4" x 8-5/16" (146 mm x 211 mm)
4905-9939	Adapter Plate, zinc plated, **required** to mount on compatible surface mounted 4" square boxes or three gang surface mount weatherproof box		7" x 4-7/8" (178 mm x 124 mm)
4905-9915	White Adapter Ring Box Extension	Use to provide expanded depth when 1-1/2" deep, 4" square electrical box is mounted flush in wall	4-3/4" x 6-7/8" x 1-1/2" D (121 mm x 175 mm x 38 mm)
4905-9916	Red Adapter Ring Box Extension		

Mounting Boxes (see illustrations on pages 3 and 4)

Model	Description	Dimensions
4905-9923	Red Surface Mount Box	4-5/16" x 6-5/8" x 2-3/4" D (110 mm x 168 x 70 mm)
4905-9924	White Surface Mount Box	
2975-9145	Red Box for vertical or horizontal mount, **requires** adapter plate 4905-9903 (this box may be available for retrofit applications)	5-1/8" x 7-7/8" x 2-3/4" deep (130 mm x 200 mm x 70 mm)

Synchronized Flash Modules (refer to data sheet S4905-0003 for additional details)

Model	Description		Dimensions
4905-9914	Synchronized Flash Module, Class B/Style Y operation	Epoxy encapsulated with 18 AWG (0.82 mm^2) wire leads; rated for 2 A NAC; requires 5 mA for power	1-3/8" x 2-7/16" x 13/16" (35 mm x 62 mm x 20 mm)
4905-9922	Synchronized Flash Module, Class A/Style Z operation		

Wire Guard (see illustrations on page 4)

Model	Description	Listing Reference	Dimensions
4905-9927	Red Wire Guard for semi-flush mounting; **requires** 4905-9928 mounting plate for use with 4905-9923, 4905-9924, or 2975-9145 boxes	Space Age Model SWG-AV	8-1/2" x 6-1/8" x 3" (216 mm x 156 mm x 76 mm)
4905-9928	Red Adapter Plate, **required** to mount wire guard to 4905-9923, 4905-9924, or 2975-9145 boxes	Space Age Model SWG-PK	9" x 7" (229 mm x 178 mm)

S/V with Speaker Specifications

Strobe Specifications

Rated Voltage Range	UL Listed Range	Regulated 24 VDC; see Note 1 below		
	ULC Listed Range	20 VDC to 30 VDC per ULC S526-M87		
Flash Rate and Synchronized NAC Loading		1 Hz; with up to 35 synchronized strobes maximum per NAC		
Maximum RMS Current Rating per Strobe Output (see Note 2 below)		**15 cd**	**30 cd**	**110 cd**
		90 mA	**128 mA**	**285 mA**
Reference Currents at other voltages	18 VDC	80 mA	114 mA	253 mA
	24 VDC	60 mA	85 mA	190 mA

Speaker Specifications

Input Voltage	25 or 70.7 VRMS, see Note 3 below
Power Taps	1/4, 1/2, 1, and 2 W
Fire Alarm Frequency Response	400 to 4000 Hz

Speaker Output Ratings (dBA) @ 10 ft (3 m)

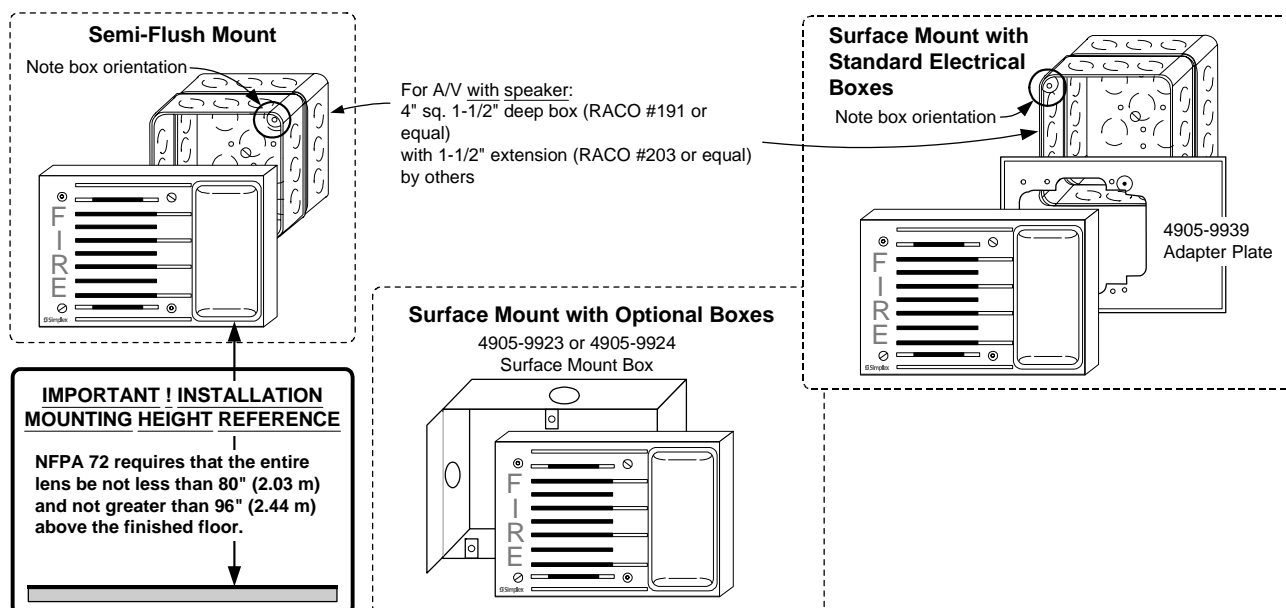| Wattage Tap	**1/4 W**	**1/2 W**	**1 W**	**2 W**
UL 1480 Reverberant Chamber Rating	80	83	86	89

General Specifications

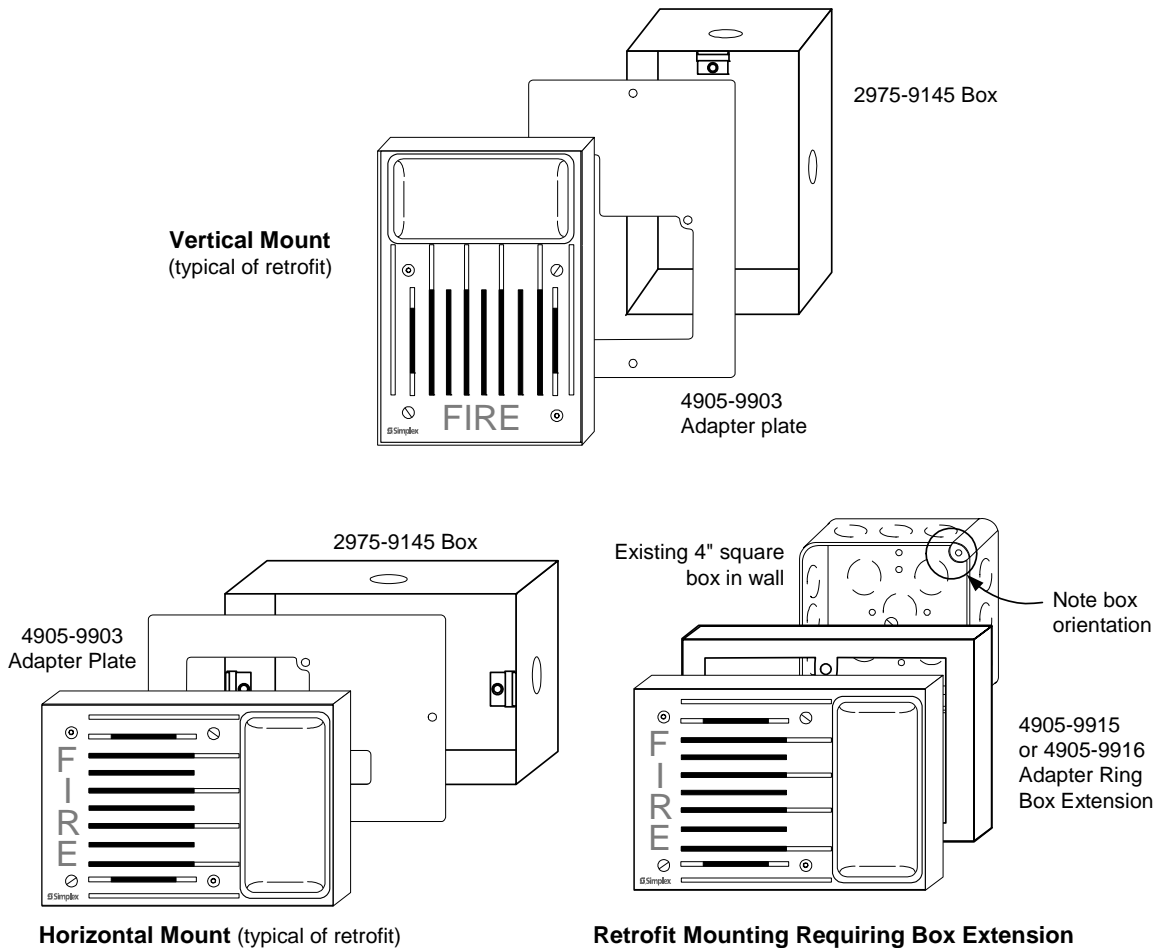| Housing Dimensions (including lens)	7-1/4" H x 5" W x 2-5/8" D (184 mm x 127 mm x 67 mm)
Depth into Box	2-7/16" (57 mm)
Speaker Tap Selection	Single jumper wire with pressure connector, attaches to one of 8 terminals
Temperature Range	32° to 122° F (0° to 50° C)
Humidity Range	10% to 93%, non-condensing at 100° F (38° C)
Connections	Terminals for 18 to 12 AWG (0.82 mm^2 to 3.31 mm^2), separate terminals for speaker and strobe connections

NOTES:

1. "Regulated 24 VDC" refers to the voltage range of 16 to 33 VDC per UL Standard 1971, Signaling Devices for the Hearing Impaired, changes effective May 1, 2004. This voltage range is the absolute operating range. Operation outside of this range may cause permanent damage to the appliance. Please note that 16 VDC is the lowest operating voltage that is allowed at the last appliance on the NAC under worst case conditions. The strobe of this A/V is field selectable for free-run or synchronized operation.

2. 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.)

3. Speakers are for connection to conventional fire alarm audio circuits.

S/V with Speaker, Semi-Flush and Surface Mounting Reference

Semi-Flush Mount
Note box orientation

For A/V with speaker:
4" sq. 1-1/2" deep box (RACO #191 or equal)
with 1-1/2" extension (RACO #203 or equal) by others

Surface Mount with Standard Electrical Boxes
Note box orientation

4905-9939 Adapter Plate

Surface Mount with Optional Boxes
4905-9923 or 4905-9924 Surface Mount Box

IMPORTANT ! INSTALLATION MOUNTING HEIGHT REFERENCE

NFPA 72 requires that the entire lens be not less than 80" (2.03 m) and not greater than 96" (2.44 m) above the finished floor.

S/V with Speaker, Additional Mounting Reference

Vertical Mount
(typical of retrofit)

2975-9145 Box

4905-9903
Adapter plate

FIRE

2975-9145 Box

4905-9903
Adapter Plate

FIRE

Horizontal Mount (typical of retrofit)

Existing 4" square
box in wall

Note box
orientation

4905-9915
or 4905-9916
Adapter Ring
Box Extension

FIRE

Retrofit Mounting Requiring Box Extension

S/V with Optional 4905-9927 Guard

Surface Mount
(requires adapter plates as shown)

4905-9903
Adapter Plate

4905-9928
Adapter Plate

2975-9145 Box

4905-9923 Box

Semi-Flush Mount
(no adapter plate required)

FIRE

FIRE

FIRE