

UL Listed
FM Approved
NYC MEA Approved*

Visible and Audible/Visible Appliances
4903 Series A/V Appliances
Strobes with Speakers

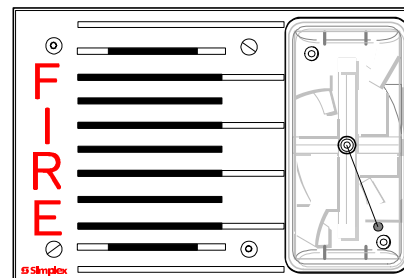
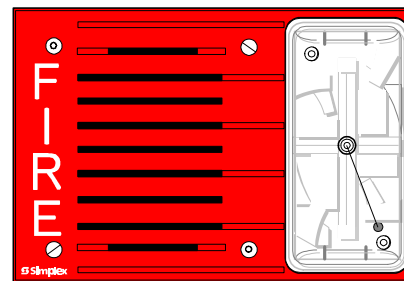
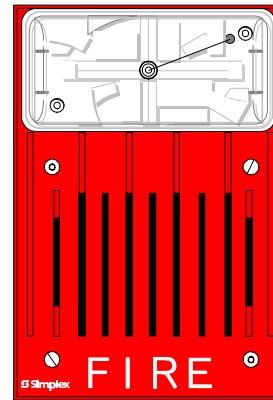
FEATURES

- **24 VDC powered xenon flashtube visible notification appliance:**
 - UL listed to Standard 1971
 - 15, 30, or 110 candela models available
 - Compatible with ADA requirements
 - Exclusive reflector design provides light output in key axis directions allowing vertical or horizontal mounting
 - Wiring terminals are separate from audible notification appliance
 - Polycarbonate lens
 - Regulated circuit design ensures consistent output
 - Under normal operating conditions, 15 candela and 30 candela models provide 75 candela on-axis per testing requirements of UL1971
- **Synchronized flash rate appliances are available for use with synchronizing modules**
- **Speaker operation is listed to UL Standard 1480:**
 - Available for 25 VRMS or 70 VRMS input
 - Capacitor input for connection to reverse polarity, supervised NAC
- **Multiple housing options:**
 - Red with white "FIRE," horizontal or vertical mount
 - Off-white with red "FIRE," horizontal mount

DESCRIPTION

Simplex 4903 Series audible/visible notification appliances with speakers are available in three visible intensity levels and in red or off-white rectangular housings. These appliances may be either horizontally or vertically wall mounted, because an exclusive multi-surface reflector is used to provide symmetrical light output in key axis directions. The lens assembly fits securely into its housing, providing a high integrity notification appliance that is impact and vandal resistant and suitable for a variety of applications.

Synchronized Strobes. When multiple visible appliances and their reflections can be seen from one location, synchronized flashes reduce the probability of photo-sensitive reactions. Modules are available to control the flashes of synchronized flash models at a rate of 1 Hz using the existing two wire visible appliance circuit (US patent No. 5,559,492). Standard appliance models will operate in a free-running mode even when connected to a synchronized NAC.



4903 Series Audible/Visible Notification Appliances

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). Additional reference may be found in the *Simplex Fire Alarm Strobe Application Guide*, Publication 574-342.

Consult your local Simplex representative for further assistance in determining these requirements.

* Accepted for use—City of New York Department of Buildings—MEA35-93E.

SPECIFICATIONS

General

Dimensions (with lens)..... 4 3/4" x 6 7/8" x 2 5/8" D
 (121 mm x 175 mm x 67 mm)
 Speaker Depth into Box.....2 7/16" (62 mm)
 Connections..... Terminals for in/out wiring
 #18 to #12 AWG
 Operating Temperature..... 32° F to 120° F
 (0° C to 49° C)
 Operating Humidity 10-95% Non-condensing
 at 86° F (30° C)
 Operating Voltage..... 18 to 32 VDC

Visible Appliance

Flash Rate 1 Hz
 Nominal Average Current at 24 VDC:
 15 Candela (Effective Intensity) 95 mA
 30 Candela (Effective Intensity) 125 mA
 110 Candela (Effective Intensity) 220 mA

Speaker Specifications

Frequency Response:
 For Fire Alarm 400 Hz to 4 kHz
 For General Signaling..... 125 Hz to 12 kHz
 Power Taps 1/4 W, 1/2 W, 1 W, 2 W
 Typical Sound Levels* :
 Rectangular Housing Models 1/4 W = 79 dBA
 (at 10 ft with 1 kHz input using 1/2 W = 82 dBA
 conventional meters) 1 W = 85 dBA
 2 W = 88d BA

* Minimum sound levels, as determined by integrated sound pressure measurements per UL Standard 1480, are 4 dbA lower.

4903 SERIES A/V SELECTION CHART FOR STROBES WITH SPEAKERS*

Product ID/Operation Type		Strobe Output (Candela)			Mounting Style	Housing Color	Speaker Voltage
1 Hz Standard	1 Hz Synchronized	15	30	110			
4903-9146	4903-9301	X			Horizontal Wall Mount	Red	25 VRMS
4903-9142	4903-9303		X				
4903-9144	4903-9305			X			
4903-9167		X			Horizontal Wall Mount	Off-White	25 VRMS
4903-9170			X				
4903-9173				X			
4903-9146H		X			Horizontal Wall Mount, for High Humidity Areas **	Red	
4903-9147		X			Vertical Wall Mount (retrofit)		
4903-9168	4903-9326	X			Horizontal Wall Mount	Red	70 VRMS
4903-9171	4903-9329		X				
4903-9174	4903-9332			X			

* Refer to Simplex data sheet S4903-0009 for strobes with electronic horns and data sheet S4903-0007 for audible/visible modular adapters.

** Suffix H models are intended for indoor use in areas where humidity is normally high, such as swimming pool rooms, locker rooms, etc., and require the 4905-9907 gasket kit. **NOTE: Audible output is attenuated by 3 dBA.**

4903 AUDIBLE/VISIBLE APPLIANCE ACCESSORIES

General Purpose Adapter Plates and Mounting Plates

Model	Description	Dimensions
4905-9903	Red Adapter Plate, required to mount A/V on 2975-9145 Boxes	5 3/4" x 8 5/16" (146 mm x 211 mm)
4905-9939	Adapter Plate, zinc plated, for surface mount rectangular housings	4 7/8" x 7" (124 mm x 178 mm)
4905-9915	Off-White Adapter Ring Box Extension	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	

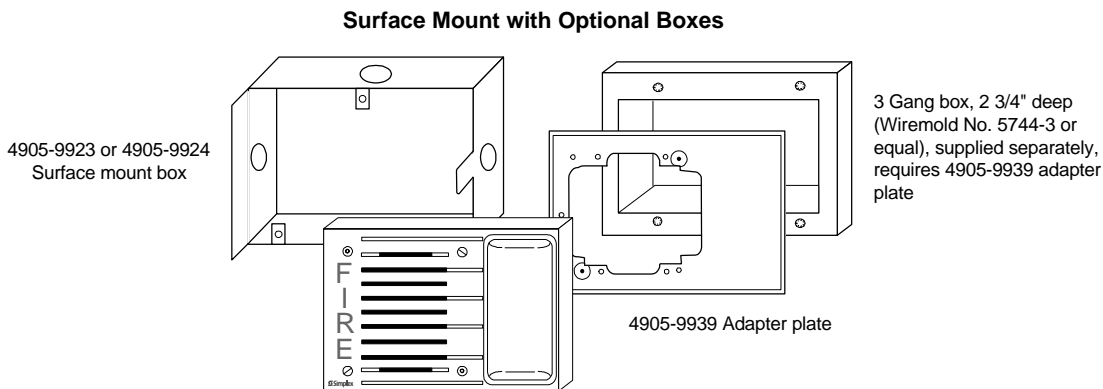
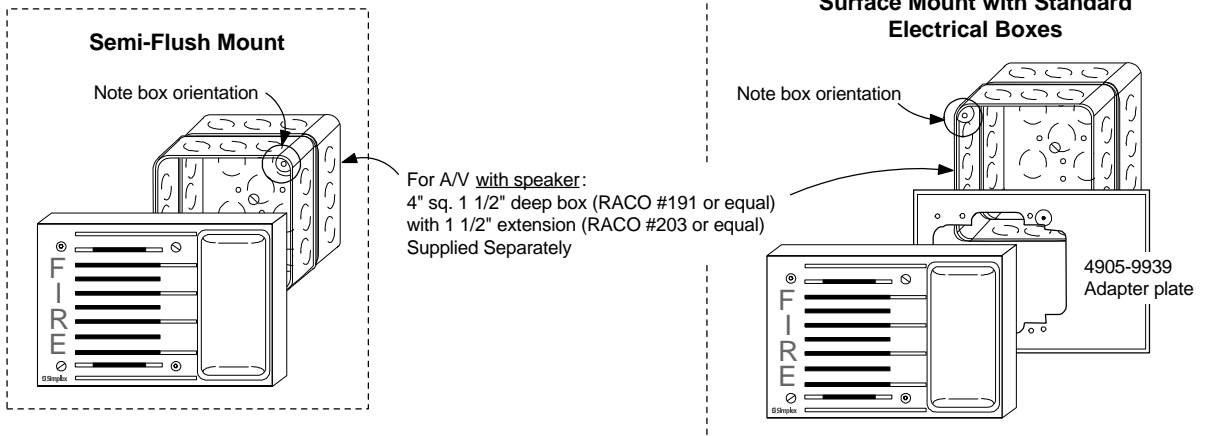
Mounting Boxes

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	Off-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)

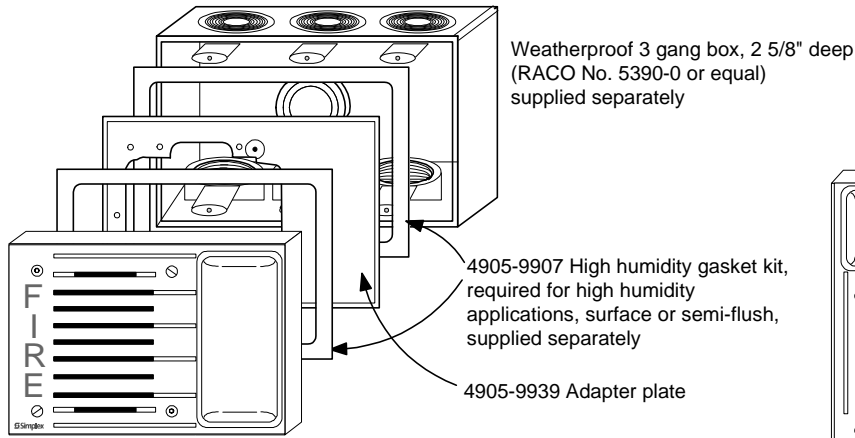
Other Options

Model	Description	Dimensions
4905-9907	High Humidity Gasket Kit	Sized to fit housing
4905-9914	Synchronized Flash Module, Epoxy encapsulated with #18 AWG in/out wire leads, rated for 2A NAC, requires 10 mA for power	Style Y
4905-9922		Style Z
4905-9927	UL Listed Wire Guard for semi-flush mounting, red, requires 4905-9928 mounting plate for use with 4905-9923, 4905-9924, or 2975-9145 boxes	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	9" x 7" (229 mm x 178 mm)

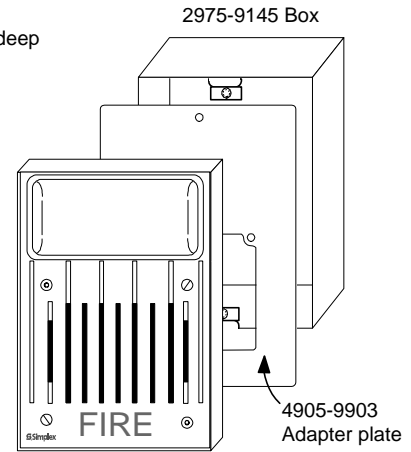
MOUNTING INFORMATION



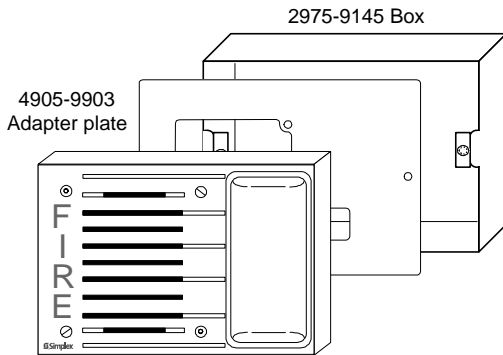
MOUNTING INFORMATION, Continued



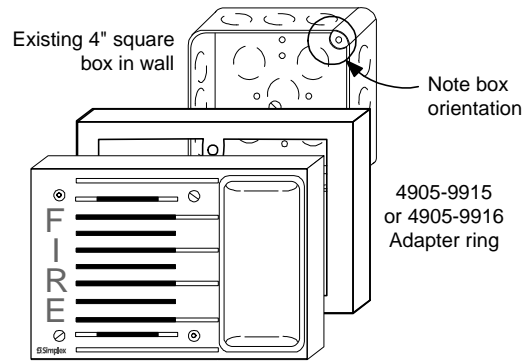
Surface Mount High, Humidity Application



Vertical Mount
(typical of retrofit)

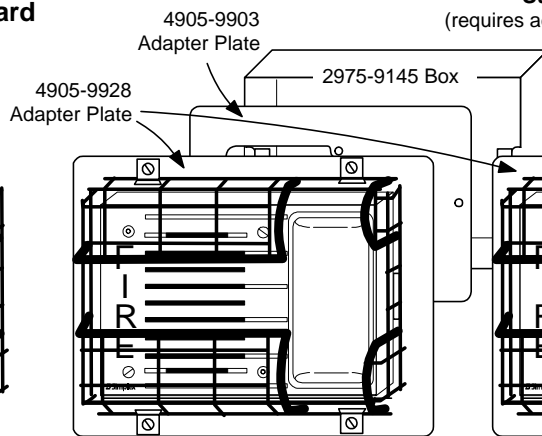
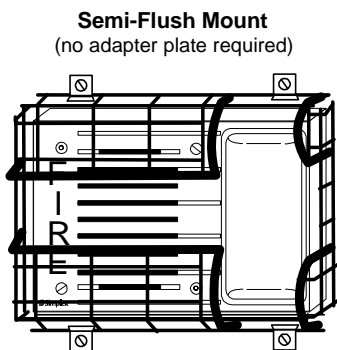


Horizontal Mount (typical of retrofit)



Retrofit Mounting Requiring Box Extension

A/V with 4905-9927 Guard



Surface Mount
(requires adapter plates as shown)

