

### Features

#### Speaker design detail summary:

- Separate models are available with 4-1/2" or 8" speakers, and with 25 or 70 VRMS input
- Output power is selectable as 1/4, 1/2, 1, 2, or 4 W; Note: Refer to product selection below and sound output ratings information on page 2 for listings and application guidance
- One inch speaker coil provides high quality sound
- Finish is satin white baked enamel
- Grills are heavy gauge steel
- Mounting is into square or round backbox (refer to page 2 for models and compatible backboxes)
- ULC listed to Standard CAN/ULC-S541\*
- Fire alarm listed frequency response is 400 to 4000 Hz



Round 2902 Series Speaker  
(12-3/4" diameter grill shown)

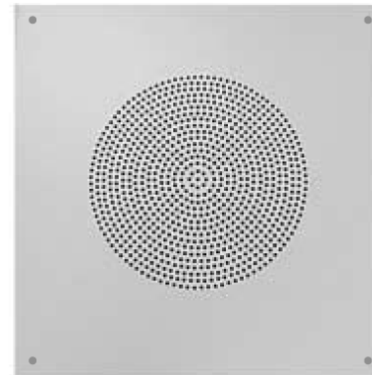
### Description

**2902-93xx Series Speakers** provide voice and tone notification when used with Simplex® Emergency Voice/Alarm Communication fire alarm control panels. Heavy gauge steel grills provide resistance against warping. Standard screws are used to mount the speaker into its compatible backbox.

**Convenient Wattage Selection.** Input line matching transformers are pre-installed and a jumper switch allows selection of the desired output wattage. The cone is moisture proof and treated with an antifungal, tropical environment compatible agent.

**Fire Alarm Applications Note:** These speakers must not be painted or have their finish altered in any way.

\* Refer to Product Selection and Sound Output Ratings for additional details. Products are ULC listed under SimplexGrinnell, div of Tyco International of Canada LTD.



Square 2902 Series Speaker  
(12-1/2" grill shown)

### Product Selection

(refer to diagram on page 2 for dimension reference (A, B, C))

Speaker Model		Grill Description (A)	Speaker Size	Compatible Backboxes with Dimensions (B x C)	
25 V Input	70 V Input			Semi-Flush Mount	Surface Mount
2902-9310	2902-9311	Round Grill, 8-9/16" (217 mm) diameter	4-1/2" (114 mm)	2975-9302; 6" round x 3-7/16" deep (152 mm x 87 mm)	Not Available
2902-9312	2902-9313** (see Note)	Square Grill, 6-3/8" (162 mm)	4-1/2" (114 mm)	2975-9303; 5-9/16" square x 4-11/16" deep (141 mm x 119 mm)	2975-9304**; 6-5/8" square x 4" deep (168 mm x 104 mm) (see Note below)
2902-9314	2902-9315	Round Grill, 12-3/4" (324 mm) diameter	8" (203 mm)	2975-9305; 10" round x 4" deep, with 11-5/8" lip (254 mm x 102 mm x 295mm)	Not Available
2902-9316	2902-9317	Square Grill, 12-1/2" (318 mm)	8" (203 mm)	2975-9306; 11-3/4" square x 4" deep (298 mm x 102 mm)	2975-9307; 12-7/8" square x 4" deep (327 mm x 102 mm)

\*\* Note: The combination of speaker 2902-9313 and backbox 2975-9304 requires use of the 1 W tap to achieve 85 dB per ULC sound chamber testing.

## Sound Output Ratings

Speaker Model		Grill Shape and Size	Speaker Size	Sound pressure level (dBA) in Anechoic Chamber at 3 m (~10 ft) per ULC-S541, see Note 1					Sound Pressure Level Directional Losses (dBA), see Note 2	
				1/4 W tap	1/2 W tap	1 W tap	2 W tap	4 W tap	-3 dBA	-6 dBA
25 V Input	70 V Input									
2902-9310	2902-9311	Round, 8-9/16" dia.	4-1/2"	79	82	85	88	91	± 30°	± 60°
2902-9312	2902-9313	Square Grill, 6-3/8" sq.	4-1/2"							
2902-9314	2902-9315	Round Grill 12-3/4" dia.	8"	80	83	86	89	92	± 30°	± 35°
2902-9316	2902-9317	Square Grill, 12-1/2" sq.	8"							

**Note 1:** Use of the 1, 2, or 4 W settings is required to achieve 85 dB minimum per ULC sound chamber testing. The combination of speaker 2902-9313 and backbox 2975-9304 requires use of the 1 W tap to achieve 85 dB per ULC sound chamber testing.

**Note 2:** 0 dBA (reference) is on-axis. Angular losses apply equally for horizontal and vertical axis.

## Installation Reference

**Mounting Reference**

**Speaker Placement**

The placement of Notification Appliances must conform to:

- Canadian Building Code
- Sound (Sound Pressure Level) Analysis of Intended Protected Areas
- Local Authority Having Jurisdiction (AHJ) Requirements
- Standard CAN/ULC-S524, "Installation of Fire Alarm Systems"

Notification appliances are not intended for installation within hazardous locations as defined by the Canadian Building code.

## Wiring Reference

If last appliance on circuit, connect end of line resistor (EOLR), see notes below

**Notes:**

1. Refer to field wiring diagrams supplied with the panel for additional NAC wiring information. Terminals are suitable for wires sizes 18 to 12 AWG (0.82 to 3.31 mm<sup>2</sup>).
2. Notification appliances are rated per individual nameplate label.
3. Maintain correct polarity on terminal connections. Do not loop wires under terminals.
4. Wiring shall be in accordance with CSA C22.1. Canadian Electrical Code, Safety Standard for Electrical Installations, Section 32.

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