

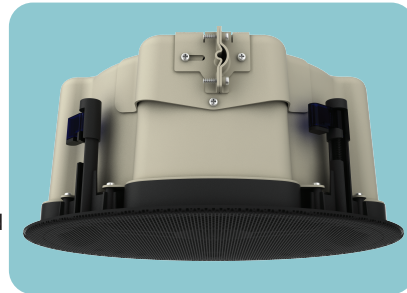
# SAROS\_IC6LPT/IC8LPT/ICE6LPT/ICE8LPT

Saros® Low Profile & Saros Express Low Profile 2-Way In-Ceiling Speakers

Saros® speakers by Crestron® deliver professional grade performance and flexible installation in a range of popular sizes for demanding commercial applications.

Ideal for use in music, paging, and sound reinforcement systems, Saros speakers are engineered to achieve smooth, even coverage, high output, and clear, natural sound quality through the employment of horn loaded dome tweeters, high-efficiency damped cone woofers, ported enclosures, and precisely tuned crossovers.

Saros 2-way in-ceiling speakers are available in white or black and may be painted to blend with the ceiling surface.



## 1 Installation

### Prepare the Mounting Hole

Before finalizing the speaker location, check to make sure there are no fixtures, pipes, air ducts, joists, or other possible obstructions. If applicable, use a good quality stud finder to locate joists. If there are no obstructions, use the supplied template to trace an outline of the mounting hole.

For drop tile ceilings, remove the ceiling tile and place on a flat surface to trace the mounting hole. For drywall or standard construction ceilings, use the template to trace the mounting hole directly on the ceiling.

### Install the Speaker Cable

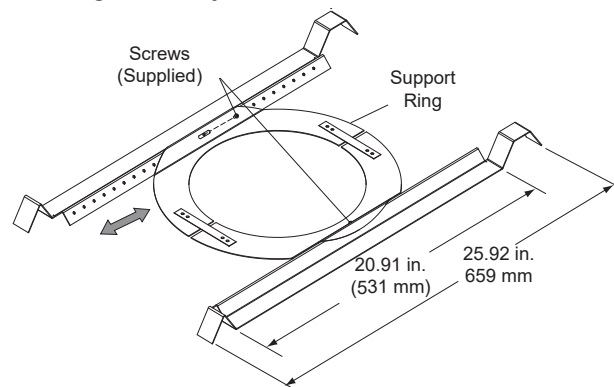
Run the speaker cable (not included) from the audio source to the speaker location, observing all appropriate local codes. Strip the ends of the speaker cables approximately 1/8 in. to 3/16 in. (~3 mm to ~5 mm) and twist the strands.

### Install the Tile Bridge

The included tile bridge components provide proper support when the speaker is installed in a typical drop tile ceiling. Refer to the illustration below.

- Based on the location of the mounting hole determined in the "Prepare the Mounting Hole" section above, use the two supplied screws to attach the support ring to the rails so that when installed, the ring is aligned with the mounting hole and the rails rest on the ceiling grid frame.
- The support ring position on the rails is adjustable to enable off-center speaker positioning. The tile bridge assembly can be folded to fit through the speaker cutout in blind-mount situations.

#### Tile Bridge Assembly



### Install or Remove the Grille

The zero-bezel frameless grille is held in place by powerful magnets. A safety tether is included to prevent the grille falling from the ceiling. With the tether attached, place the grille in position on the speaker. To remove the grille, grip the edges and pull away from the speaker.

### Paint the Speaker Grille

Painting the Speaker grille should be done prior to mounting.

- Carefully remove the mesh on the underside of the grille and set it aside for reinstallation. It may be necessary to use a knife or other sharp instrument to free an edge of the mesh so it can be peeled away. Use care to avoid cutting or tearing the mesh.
- Dry brush or lightly spray paint grille. Use care to avoid clogging the holes in the grille.
- Once the paint is dry, reinstall the mesh to the underside.

### Mount or Remove the Speaker

The in-ceiling speaker includes four toggle clamps that simplify the mounting process. If the grille is mounted on the speaker, remove it before proceeding. (Refer to "Install or Remove the Grille" above.)

- Referring to the illustrations to the right, remove the screw securing the rear cover panel, and lift the cover panel off to expose the supplied terminal block.
- Route the speaker cable through the cover cable clamp and connect the wires to the terminal block, using the outer **IN** terminals: red to **+** and black to **-**. Use the inner **+** and **- THRU** terminals to connect a pass-through (parallel) speaker.
- Allow some slack in the speaker cable and position the cover panel on the back, making certain it engages the mounting clips. Secure the cover panel using the screw removed in step 1, and tighten the cable clamp to secure the cable. Do not overtighten. Use a safety tether (**SPKA-ST-15** (not included)) attached to the rear enclosure to prevent the speaker from accidentally falling.
- The toggle clamps offer two positions to accommodate both standard and extra thick surfaces up to 2.4 in. (61 mm). For extra thick tiles, reset the toggle clamps to the upper position.
  - With the toggle clamps turned inward, insert the speaker into the opening.
  - Hold the speaker against the ceiling and begin tightening the four screws on the front of the speaker. The toggle clamps first rotate into clamping position (as indicated in the front view illustration to the right) and then begin holding the speaker to the ceiling.
  - Tighten the screws until the speaker is secure. Do not overtighten.

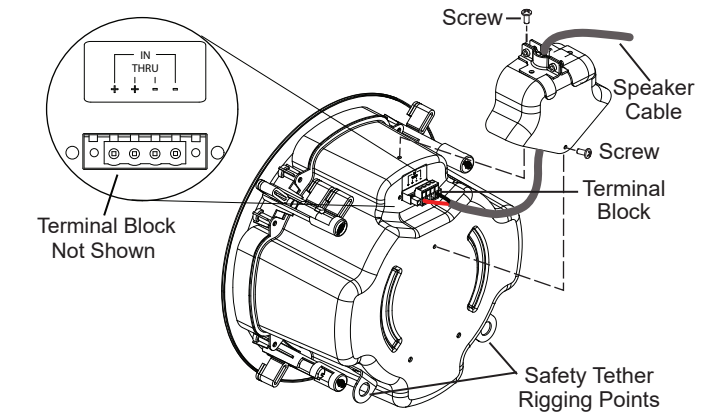
### Set the Transformer Tap Selector Switch

The speakers are equipped with a 70V/100V matching transformer for distributed audio systems. The transformer tap selector switch on the front panel is used to set the speaker power level. Use a flat blade screwdriver to adjust the switch.

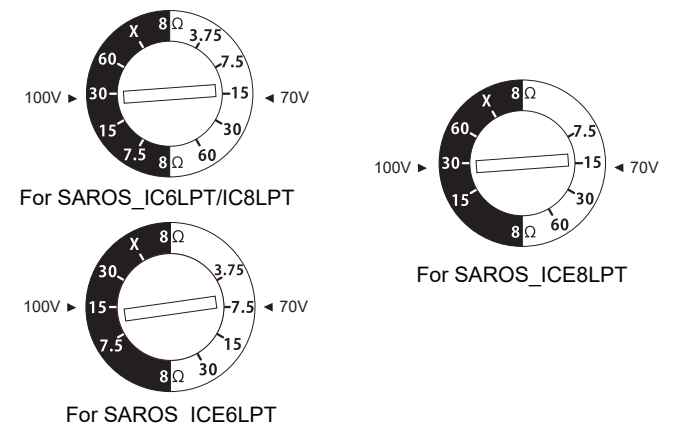
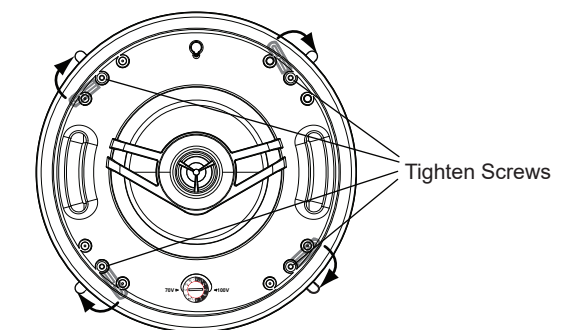
- For SAROS\_IC6LPT and SAROS\_IC8LPT 70V systems, use the left side settings and select from **3.75**, **7.5**, **15**, **30**, or **60** watts. The **X** position should not be used.
- For SAROS\_IC6LPT and SAROS\_IC8LPT 100V systems, use the right side settings and select from **7.5**, **15**, **30**, or **60** watts. The **X** position should not be used.
- For SAROS\_ICE6LPT 70V systems, use the left side settings and select from **3.75**, **7.5**, **15**, or **30** watts.
- For SAROS\_ICE6LPT 100V systems, use the right side settings and select from **7.5**, **15**, or **30** watts. The **X** position should not be used.
- For SAROS\_ICE8LPT 70V systems, use the right side settings and select from **7.5**, **15**, **30**, or **60** watts.
- For SAROS\_ICE8LPT 100V systems, use the right side settings and select from **15**, **30**, or **60** watts. The **X** position should not be used.

The switch may also be set to **8Ω** operation, bypassing the transformer completely. This setting should be used only for 8 Ω audio systems.

### Speaker Cable Connections



### Front View - Grille Removed

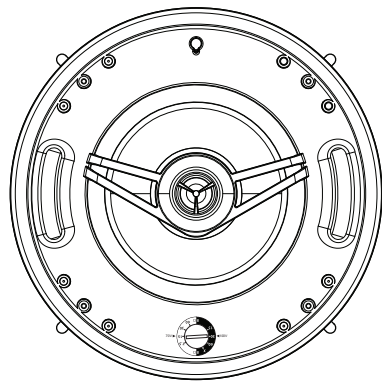


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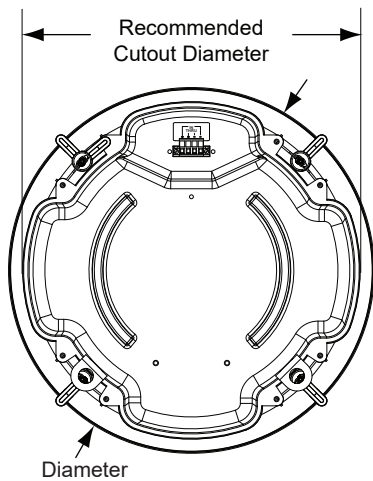
Saros® Low Profile & Saros Express Low Profile 2-Way In-Ceiling Speakers

## 2 Physical Views

Front View - Grille Removed (Typical)



Rear and Side View (Typical)



Recommended Cutout Diameter

Diameter

Minimum Mounting Depth

## 3 Specifications

SAROS\_IC6LPT/IC8LPT/ICE6LPT/ICE8LPT

SPECIFICATION	SAROS_IC6LPT	SAROS_IC8LPT	SAROS_ICE6LPT	SAROS_ICE8LPT
Woofers	6.5 in. (165 mm) polypropylene with ring mode decoupled cloth surround and steel basket	8.0 in. (203 mm) polypropylene with ring mode decoupled cloth surround and steel basket	6.5 in. (165 mm) treated paper with ring mode decoupled cloth surround and steel basket	8.0 in. (203 mm) treated paper with ring mode decoupled cloth surround and steel basket
Tweeter	0.98 in. (25 mm) titanium dome, horn-loaded	0.98 in. (25 mm) titanium dome, horn-loaded	0.98 in. (25 mm) treated cloth dome, horn-loaded	0.98 in. (25 mm) treated cloth dome, horn-loaded
Crossover Frequency	2.5 kHz	2.5 kHz	2.5 kHz	2.5 kHz
Impedance	8 Ω nominal with transformer set to 8Ω	8 Ω nominal with transformer set to 8Ω	8 Ω nominal with transformer set to 8Ω	8 Ω nominal with transformer set to 8Ω
Transformer Taps	3.75, 7.5, 15, 30, 60 watts at 70V; 7.5, 15, 30, 60 watts at 100V	3.75, 7.5, 15, 30, 60 watts at 70V; 7.5, 15, 30, 60 watts at 100V	3.75, 7.5, 15, 30 watts at 70V; 7.5, 15, 30 watts at 100V	7.5, 15, 30, 60 watts at 70V; 15, 30, 60 watts at 100V
Frequency Response	65 Hz to 20 kHz (±3 dB)	65 Hz to 20 kHz (±3 dB)	85 Hz to 20 kHz (±3 dB)	80 Hz to 20 kHz (±3 dB)
Frequency Range	55 Hz to 20 kHz (-10 dB)	55 Hz to 20 kHz (-10 dB)	70 Hz to 20 kHz (-10 dB)	65 Hz to 20 kHz (-10 dB)
Power Handling	50 watts program, (8 Ω)	50 watts program (8 Ω)	60 watts program (8 Ω)	60 watts program, (8 Ω)
Sensitivity	88 dB @ (W/m)	90 dB @ (W/m)	89 dB @ (W/m)	89 dB @ (W/m)
Coverage	95° conical (nominal)	95° conical (nominal)	95° conical (nominal)	95° conical (nominal)
Connections	(1) 4-pin 5 mm detachable terminal block with screw-down flanges; Speaker input with parallel pass-through; Maximum Wire Size: 12 AWG			
Controls	(1) Recessed 5-position screwdriver adjustable rotary switch on baffle; Used to select 70V/100 V tap settings or 8Ω (bypass)			
Environmental	Temperature: -2° to 120°F (-19° to 49°C) Humidity: 5% to 95% RH (non-condensing)			
Construction	Enclosure: Zinc-plated steel, plenum-rated, side-entry cable clamp Baffle: ABS UL94V-0 plastic Grille: Steel with textured finish, paintable, magnetically-held zero-bezel frameless, safety tether Mounting: Flush ceiling mount using 4 integral 2-step toggle clamps, 2.4 in. (61 mm) maximum surface thickness, tile bridge included; (2) Rigging points for safety tether (SPKA-ST-15 sold separately).			
Dimensions	Diameter: 10.64 in. (270 mm) not including toggles Depth: 5.30 in. (135 mm) Recommended cutout diameter: 9.70 in. (246 mm) Minimum mounting depth: 5.20 in. (132 mm)			
Weight	8.2 lb (3.7 kg)	11.1 lb (5.0 kg)	9.2 lb (4.2 kg)	10.8 lb (4.9 kg)

## 4 Problem Solving

### Troubleshooting

The following table provides corrective action for possible trouble situations. If further assistance is required, please contact a Crestron True Blue Support at 1-888-CRESTRON [1-888-273-7876].

TROUBLE	POSSIBLE CAUSE(S)	CORRECTIVE ACTION
No sound or intermittent sound is coming from the speakers.	There is a cable connection error.	Verify the cable connections between the amplifier and speakers.
	The amplifier is not receiving an input signal or there is a malfunction.	Verify that the amplifier is functioning correctly, that it is receiving an input signal, and that the correct input source is selected.
Constant noise such as buzz, hum, or hiss is coming from the speakers.	There is a faulty device in the system.	Verify that all system devices are functioning properly.
	There is a system grounding fault.	Verify that system grounding is correct.
Low frequency output is poor.	There is an incorrect polarity connection at the speaker or amplifier.	Verify the speaker connection polarity (+ on amplifier to + on speaker).

### Further Inquiries

To locate specific information or resolve questions after reviewing this guide, contact Crestron True Blue Support at 1-888-CRESTRON [1-888-273-7876] or, for assistance within a particular geographic region, refer to the listing of Crestron worldwide offices at [www.crestron.com/offices](http://www.crestron.com/offices).

To post a question about Crestron products, log onto Crestron's Online Help at [www.crestron.com/onlinehelp](http://www.crestron.com/onlinehelp). First-time users must establish a user account to fully benefit from all available features.

The specific patents that cover crestron products are listed at [patents.crestron.com](http://patents.crestron.com).

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