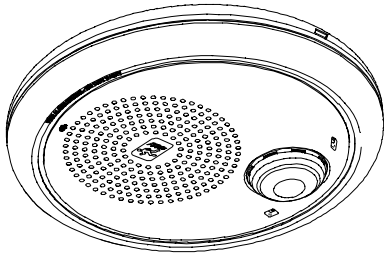


# Genesis Ceiling Speaker-Strobe

## Product description



The Genesis Ceiling Speaker-Strobe is a fire alarm notification appliance designed for indoor ceilings and walls. See Table 1 for a list of model numbers.

The speaker-strobe includes field configurable switches for selecting both the desired candela output and wattage tap. These settings are locked in place and remain visible after final installation.

This strobe features an enhanced synchronization circuit to comply with the latest requirements of UL 1971 *Signaling Devices for the Hearing Impaired*. Synchronized operation requires a separately installed synchronization control module. See Table 2 for a list of compatible synchronization modules.

Install this device in accordance with applicable requirements in the latest editions of the NFPA codes and standards and *Canadian Electrical Code, Part 1*, Section 32, CAN/ULC-S524-2001, *Standard for the Installation of Fire Alarm Systems*, and in accordance with the local authorities having jurisdiction.

**Table 1: Models**

Description	Number	
Speaker-strobe, 25 Vrms, 15 to 95 multi-cd, white	ADTGC-S2VM EGC-S2VM GC-S2VM GC-S2VM-LG	MGC-S2VM XLSGC-S2VM ZGC-S2VM
Speaker-strobe, 25 Vrms, 15 to 95 multi-cd, white, with FIRE marking	ADTGCF-S2VM EGCF-S2VM GCF-S2VM GCF-S2VM-LG	MGCF-S2VM XLSGCF-S2VM ZGCF-S2VM
Speaker-strobe, 70 Vrms, 15 to 95 multi-cd, white	ADTGC-S7VM EGC-S7VM GC-S7VM GC-S7VM-LG	MGC-S7VM XLSGC-S7VM ZGC-S7VM
Speaker-strobe, 70 Vrms, 15 to 95 multi-cd, white, with FIRE marking	ADTGCF-S7VM EGCF-S7VM GCF-S7VM GCF-S7VM-LG	MGCF-S7VM XLSGCF-S7VM ZGCF-S7VM
Speaker-strobe, 70 Vrms, 15 to 95 multi-cd, red, with FIRE marking	EGCFR-S7VM GCFR-S7VM MGCFR-S7VM	

**Table 2: Compatible synchronization modules**

Description	Model number	
Auto-Sync Output Module	SIGA-CC1S SIGA-CC1S-LG	SIGA-MCC1S SIGA-MCC1S-LG
Genesis Signal Master - Remote Mount	ADTG1M-RM EG1M-RM G1M-RM G1M-RM-LG	MG1M-RM XLSG1M-RM ZG1M-RM

## Specifications

### Operating voltage

Speaker: 25 Vrms (model S2) or 70 Vrms (model S7)  
 Strobe: Regulated 16 to 33 Vdc, 16 to 33 Vfw  
 This device was tested to the regulated 24 Vdc/fw operating voltage limits of 16 V and 33 V. Do not apply 80% and 110% of these values for system operation.

Supervisory voltage: 30 V maximum

Sound level output: See Table 3

Speaker response: 400 to 4,000 Hz

Strobe operating current: See Table 4

Light output: Selectable at 15, 30, 75, and 95 cd

Synchronization: Meets UL 1971 requirements. Maximum allowed resistance between any two devices is 20 Ω. Refer to specifications for the synchronization control module, this strobe, and the control panel to determine allowed wire resistance.

Wire size: 12 to 18 AWG (2.50 to 0.75 sq mm)

Compatible electrical boxes

North American 4 in square electrical box, 2-1/8 in deep (UL/ULC listed flush mounted with no extension ring)

Operating environment

Temperature: 32 to 120 °F (0 to 49 °C)

Humidity: 0 to 93% RH, noncondensing at 90 °F (32 °C)

Agency listings: Meets ULC-S541, year 2004 UL requirements for standards UL 1638 and UL 1971 (see Figure 1), and complies with UL 1480 fifth edition. Meets BS EN 60065:2002. Nameplate marking is located on the inside surface of the device.

**Table 3: Sound level output (dBA)**

Wattage	25V (UL)	25V (ULC)	70V (UL)	70V (ULC)
1/4 W	80	78	80	81
1/2 W	84	81	84	81
1 W	87	87	87	87
2 W (UL)	90		91	
2.2 W (ULC)		90		90

**Table 3: Sound level output (dBA)**

Wattage	25V (UL)	25V (ULC)	70V (UL)	70V (ULC)
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dBA = Decibels, A-weighted

UL 1480: Sound level output at 10 ft (3.05 m) measured in a reverberant room using 400 to 4,000 Hz band limited pink noise.

ULC-S541: Meets or exceeds 85 dBA in an anechoic chamber at 10 ft (3.05 m).

Directional characteristics: Within 6 dB of on-axis sound level when measured 90° off-axis (horizontal).

**Table 4: Strobe operating current in RMS (A)**

	15 cd	30 cd	75 cd	95 cd
Vdc	0.109	0.151	0.281	0.318
Vfwr	0.131	0.194	0.379	0.437

Vdc = Volts direct current, regulated and filtered

Vfwr = Volts full wave rectified

Operating currents shown above were measured by UL at 16 Vdc and 16 Vfwr.

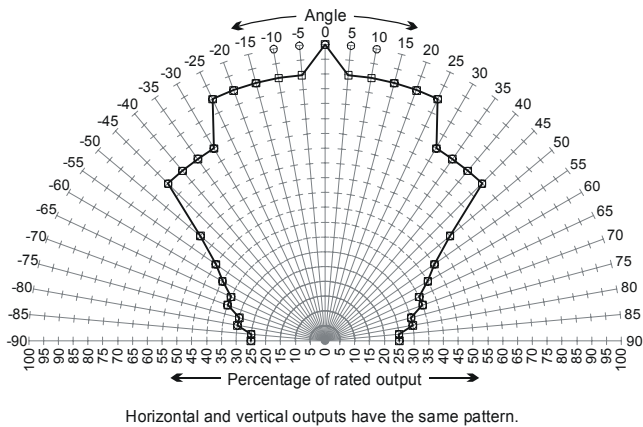


Figure 1: UL 1971 minimum light output (% of rating vs. angle)

**Installation instructions**

**Warning:** To reduce the risk of shock, disconnect all power and allow 10 minutes for stored energy to dissipate before handling.

**Caution:** Electrical supervision requires the wire run to be broken at each terminal. Do not loop the signaling circuit field wires around the terminals.

**Note:** When installed, these devices are not centered on the electrical box. Make sure boxes are mounted to compensate for this difference. See “Mounting template”.

**To install the speaker-strobe:**

1. Open the cover by depressing the tabs on either side of the unit with a small screwdriver. Hinge the cover down, to access the mounting screws and selectable candela and

wattage switches. The cover is also detachable for installation convenience.

2. If temporal strobe (private mode) operation is desired, cut jumper JP1. See Figure 2.
3. Connect the speaker and strobe terminals to the signal circuit field wiring. You must observe polarity for the unit to function properly. See Figure 3.
4. Slide the wattage switch to the desired wattage tap (2 W, 1 W, 1/2 W, or 1/4 W) by aligning it with the indicator below the switch. See Figure 4.
5. Slide the candela switch to the desired candela output (15, 30, 75, or 95 cd) by aligning it with the indicator below the switch. See Figure 4.
6. Mount the unit onto a compatible electrical box. See Figure 5.
7. Reattach and/or hinge the cover up to latch into place.
8. Test the unit for proper operation.

To change the **strobe signal output** from 1 fps (public mode) to temporal (private mode) cut jumper JP1

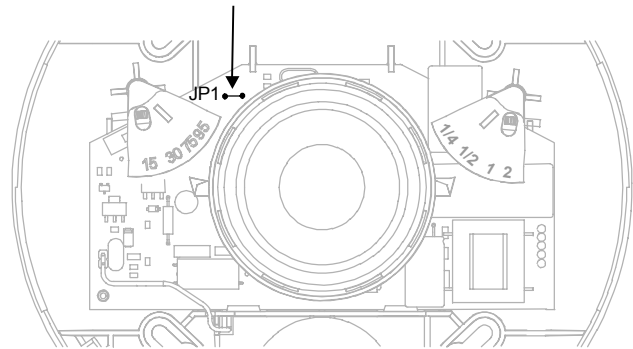


Figure 2: Strobe setting

**Note:** If the strobe is set to temporal (private mode), this device is no longer UL 1971 listed and FM Approved but is UL 1638 listed.

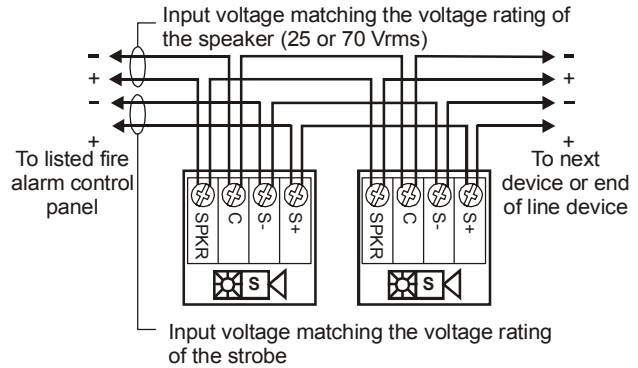


Figure 3: Wiring diagram

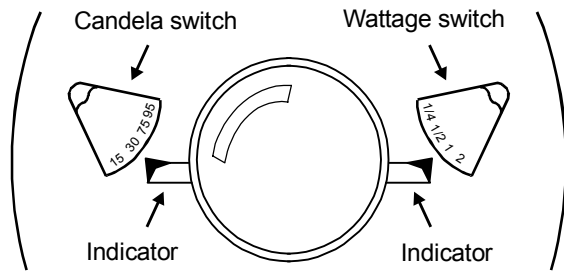


Figure 4: Field configurable switches

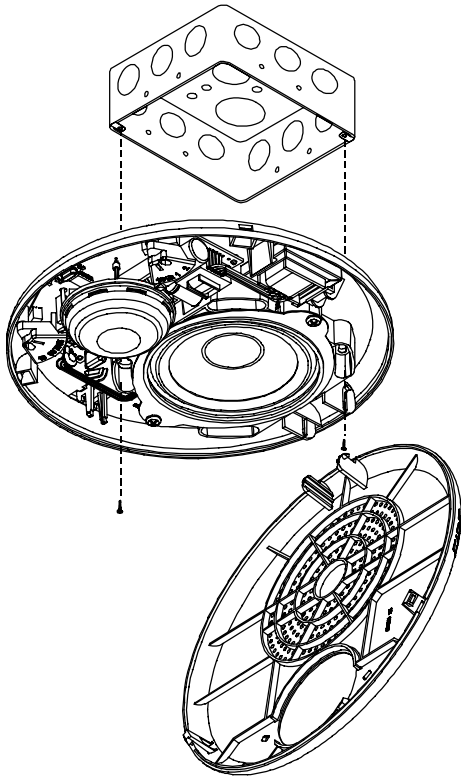


Figure 5: Mounting diagram

## Maintenance

This unit is not serviceable or repairable. Should the unit fail to operate, contact the supplier for replacement.

Perform a visual inspection and an operational test twice a year or as directed by the local authority having jurisdiction.

## Mounting template

### To center the speaker-strobe:

1. Position the template to the center of the ceiling tile.
2. Orient the strobe to the desired visual position.
3. Mark the location for the electrical box.

