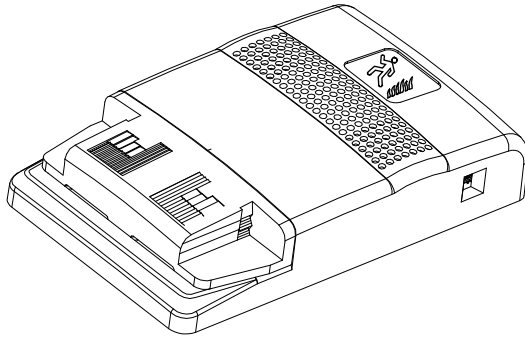


# Genesis Chime-Strobe Installation Sheet



## Description

The Genesis Chime-Strobe is a fire alarm notification appliance designed for indoor walls. See Table 1 for a list of models.

The chime includes field-configurable options for selecting dB output, chime signal, and constant noncoded voltage or single-stroke coded voltage operation. A Genesis Series Signal Master is required when chimes are configured for coded operation.

The strobe includes a field-configurable switch for selecting the desired candela output. The candela output setting is locked in place and remains 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.

**Note:** Synchronization module requirements are determined by your application. See the control panel or power supply compatibility list for compatible synchronization devices.

**Table 1: Models**

| Model number                         | Description              |                                                            |
|--------------------------------------|--------------------------|------------------------------------------------------------|
| ADTG1-CVM<br>G1-CVM<br>MG1-CVM       | XLSG1-CVM<br>ZG1-CVM     | Chime-strobe, 15 to 110 multi-cd, white                    |
| ADTG1F-CVM<br>G1F-CVM<br>MG1F-CVM    | XLSG1F-CVM<br>ZG1F-CVM   | Chime-strobe, 15 to 110 multi-cd, white, with FIRE marking |
| ADTG1R-CVM<br>G1R-CVM<br>MG1R-CVM    | XLSG1R-CVM<br>ZG1R-CVM   | Chime-strobe, 15 to 110 multi-cd, red                      |
| ADTG1RF-CVM<br>G1RF-CVM<br>MG1RF-CVM | XLSG1RF-CVM<br>ZG1RF-CVM | Chime-strobe, 15 to 110 multi-cd, red, with FIRE marking   |
| ADTG1T<br>G1T<br>MG1T                | XLSG1T<br>ZG1T           | Trim plate, white                                          |
| ADTG1RT<br>G1RT<br>MG1RT             | XLSG1RT<br>ZG1RT         | Trim plate, red                                            |

## Installation

Install this device in accordance with applicable requirements in the latest editions of the NFPA codes and standards, and in accordance with the local authorities having jurisdiction.

**WARNING:** Electrocution hazard. To avoid personal injury or death from electrocution, remove all sources of power and allow stored energy to discharge before installing or removing equipment.

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

### To install the chime-strobe:

1. Remove the cover by depressing both tabs on the top of the unit with a small screwdriver and twisting slightly.
2. Set the chime signal, sound output level, and desired operation settings. See Figure 1.

To change the chime signal from steady to temporal, cut from circle J1 to the edge of the circuit board.

To change the chime operation from noncoded to coded (single-stroke), cut from circle J2 to the edge of the circuit board.

To change the chime sound output level from high dB to low dB, cut the J3 trace between the holes.

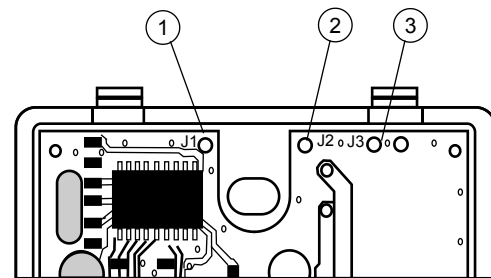
3. Slide the candela switch to the desired candela output by aligning it with the indicator located beside the switch. See Figure 2.
4. Connect the chime terminals to the signal circuit field wiring. For the unit to function properly, observe polarity. See Figure 1.

For single-stroke coded voltage operation, see Figure 3.

For constant noncoded voltage operation, see Figure 4.

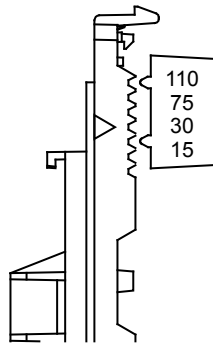
5. Mount the unit onto a compatible electrical box, making sure not to overtighten the mounting screws.
6. Replace the cover by aligning it at the bottom, and then snapping it in at the top.
7. Test the unit for proper operation.

**Figure 1: Chime settings**



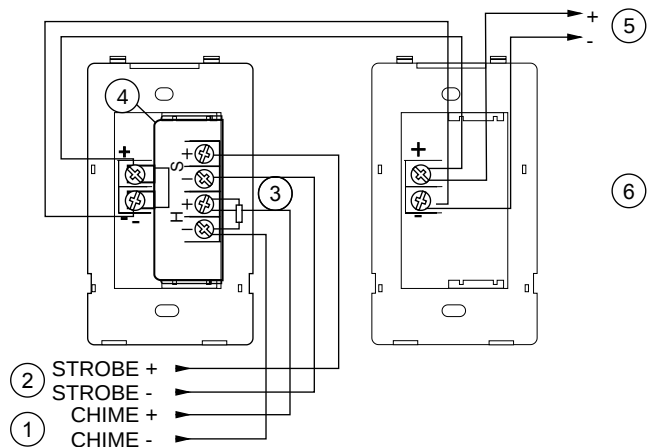
1. J1: Chime signal jumper
2. J2: Coded/non-coded jumper
3. J3: Chime sound output

Figure 2: Candela switch



Wiring

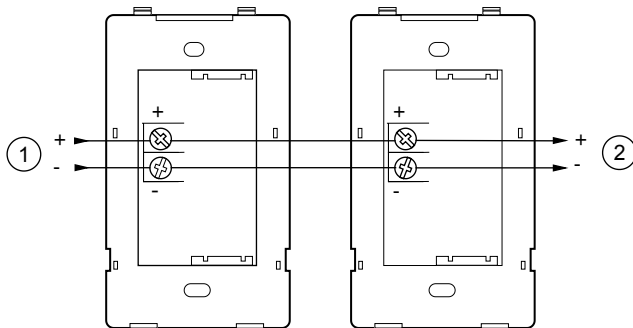
Figure 3: Wiring for single-stroke coded voltage operation



- 1. Chime IN (coded power signal)
- 2. Strobe IN (continuous power signal)
- 3. Resistor (value determined by the control panel)
- 4. Genesis Signal Master Module
- 5. To next appliance, EOL resistor, or Class A circuit return
- 6. One wire each side of screw head

- Notes
- Polarity is shown in alarm condition.
  - The strobe circuit can be silenced without turning off strobes.

Figure 4: Wiring for constant noncoded voltage operation



- 1. From NAC output
- 2. To next appliance, EOL, or Class A return

Note: Signal polarity is shown in the alarm condition.

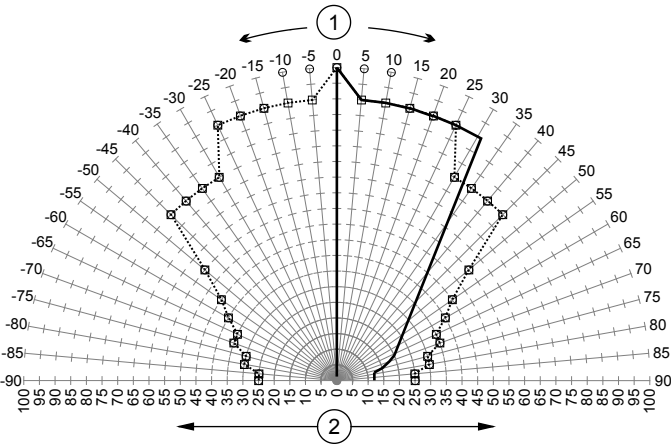
Maintenance

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.

Do not change the factory-applied finish.

Figure 5: UL 1971 minimum light output (% of rating vs. angle)



- 1. Angle
- 2. Minimum UL required candela light output  
    — % of rated candela vertical specification  
    --- % of rated candela horizontal specification

Specifications

|                             |                                                                                                                                         |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Voltage                     | 24 VDC or 24 VFWR nominal                                                                                                               |
| Strobe operating current    | See Table 2                                                                                                                             |
| Light output                | Selectable at 15, 30, 75, and 110 cd                                                                                                    |
| Sound level output          | See Table 3                                                                                                                             |
| Default settings            |                                                                                                                                         |
| Signal                      | Steady                                                                                                                                  |
| Sound level output          | High dB                                                                                                                                 |
| Operation                   | Noncoded                                                                                                                                |
| Signals                     |                                                                                                                                         |
| Steady                      | 60 strokes per minute                                                                                                                   |
| Temporal                    | 3-stroke pattern                                                                                                                        |
| Coded                       | Maximum 60 strokes per minute                                                                                                           |
| Operating modes             |                                                                                                                                         |
| Noncoded                    | Continuous voltage                                                                                                                      |
| Coded                       | Single-stroke controlled by voltage                                                                                                     |
| Wire size                   | 12 to 18 AWG (0.75 TO 2.50 mm <sup>2</sup> )                                                                                            |
| Compatible electrical boxes | 2-1/2 in. (64 mm) deep single-gang box<br>4 in. square box 1-1/2 in. (38 mm), 2-gang<br>4 in. octagonal with G1T or G1RT trim accessory |
| Operating environment       |                                                                                                                                         |
| Temperature                 | 32 to 120°F (0 to 49°C)                                                                                                                 |
| Relative humidity           | 0 to 93% noncondensing                                                                                                                  |

**Table 2: Strobe operating current in RMS (A)**

|      | 15 cd | 30 cd | 75 cd | 110 cd |
|------|-------|-------|-------|--------|
| VDC  | 0.099 | 0.134 | 0.233 | 0.277  |
| VFWR | 0.154 | 0.195 | 0.338 | 0.383  |

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.

**Table 3: ULI Ratings, temporal output (private mode)**

| Signal   | High dB | Low dB |
|----------|---------|--------|
| Temporal | 56.9    | 52.5   |
| Steady   | 58.2    | 52.8   |

dBA = Decibels, A-weighted

UL 464: Sound level output at 10 ft (3.05 m) measured in a reverberant room at 16 V.

## Regulatory information

|                     |                                                                                                                                                                                                                                        |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UL rating           | Regulated 24 DC and 24 FWR                                                                                                                                                                                                             |
| Environmental class | UL: Indoor                                                                                                                                                                                                                             |
| Synchronization     | Meets UL 1971 requirements. Maximum allowed resistance between any two devices is 20Ω.<br><br>Refer to specifications for the synchronization control module, this strobe, and the control panel to determine allowed wire resistance. |
| Agency listings     | Meets UL 1638, UL 1971 and UL 464 (private mode)                                                                                                                                                                                       |

## Contact information

For contact information, see [www.edwardsfiresafety.com](http://www.edwardsfiresafety.com).