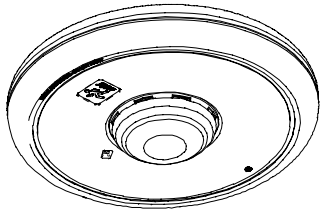


## Product information



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

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* and the latest Canadian standard CAN/ULC S526-02. 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 S524-01, Standard for the Installation of Fire Alarm Systems*, and in accordance with the local authorities having jurisdiction.

**Table 1: Models**

| Description   | Number    |           |
|---|-----------|-----------|
| Strobe, 15 to 95 multi-cd, white                    | ADTGC-VM  | MGC-VM    |
|   | EGC-VM    | XLSGC-VM  |
|   | GC-VM     | ZGC-VM    |
|   | GC-VM-LG  |           |
| Strobe, 15 to 95 multi-cd, white, with FIRE marking | ADTGCF-VM | MGCF-VM   |
|   | EGCF-VM   | XLSGCF-VM |
|   | GCF-VM    | ZGCF-VM   |
|   | GCF-VM-LG |           |
| Strobe, 15 to 95 multi-cd, red, with FIRE marking   | EGCFR-VM  |           |
|   | GCFR-VM   |           |
|   | MGCFR-VM  |           |

**Table 2: Compatible synchronization modules**

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

## Specifications

### Operating voltage

Regulated 16 to 33 Vdc, 16 to 33 Vfwr

This device was tested to the Regulated 24 Vdc/fwr operating voltage limits of 16 V and 33 V. Do not apply 80% and 110% of these values for system operation.

Strobe operating current: See Table 3

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 (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 year 2004 UL requirements for standards UL1638 and UL1971 (see Figure 1) and Canadian requirements for standards CAN/ULC S526-02 and CAN/ULC S524-01

**Table 3: 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.

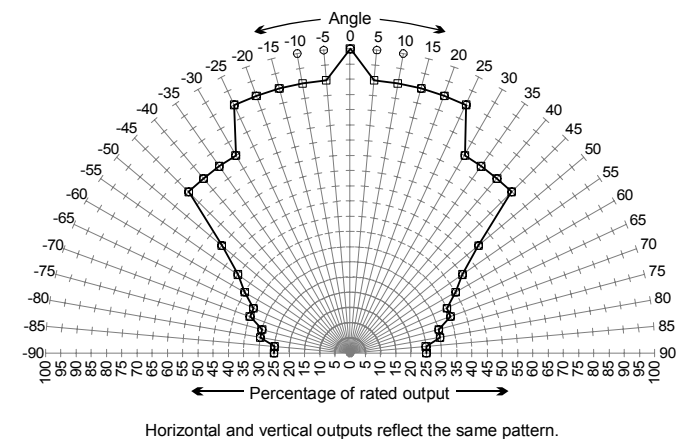


Figure 1: UL 1971 minimum light output (% of rating vs. angle)

## 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.

### To install the strobe:

1. Remove the cover by depressing the tab on the side of the unit with a small screwdriver. Turn the cover counterclockwise to release.
2. If temporal strobe (private mode) operation is desired, cut jumper JP1. See Figure 2.
3. Connect the strobe terminals to the signal circuit field wiring. You must observe polarity for the unit to function properly. See Figure 3.
4. 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.
5. Mount the unit onto a compatible electrical box. See Figure 5.
6. Replace the cover by positioning the alignment arrows together and rotating the cover clockwise.
7. Test the unit for proper operation.

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

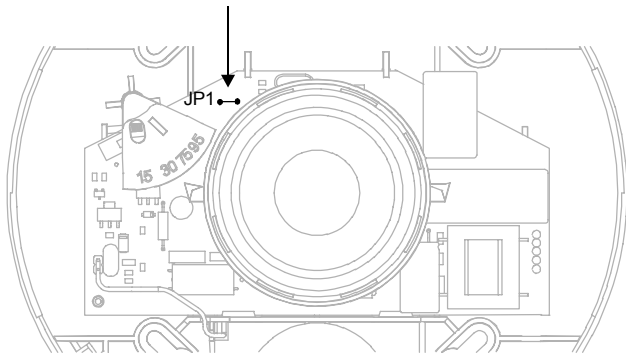


Figure 2: Strobe setting

**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.

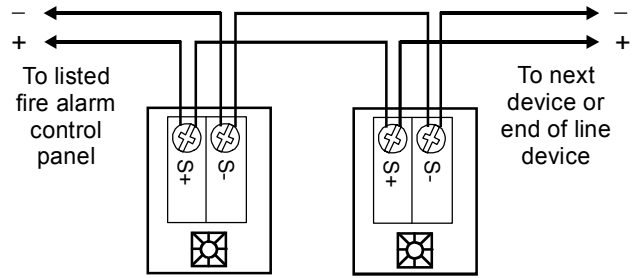


Figure 3: Wiring diagram

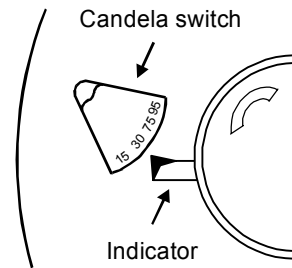


Figure 4: Candela switch

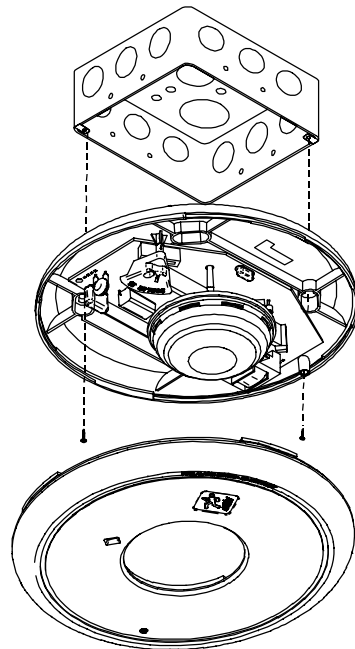


Figure 5: Mounting diagram

## 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.