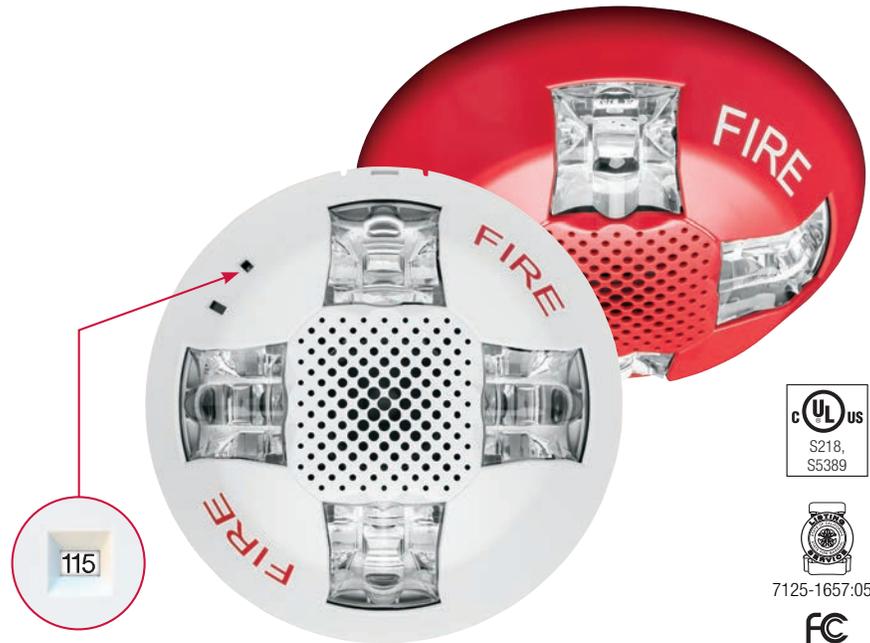


Technology that saves lives

Genesis LED EGC Series

Ceiling Mount Notification Devices



7125-1657:0510



Overview

Genesis LED EGC Series horns and LED strobes feature a sleek low profile design and energy-efficient technology that makes them less expensive to install and operate by reducing overhead. High performance LEDs require fewer power supplies, backup power, and batteries. These new appliances are designed with, energy-efficiency, and life safety in mind.

Genesis LED EGC Series uses high efficiency optics, combined with patented electronics, to deliver a highly controlled and efficiently focused light distribution pattern in exchange for lower current requirements. Strobes feature field-selectable 15, 30, 75, or 115 cd light output.

Compared with Xenon-type strobes, Genesis LED EGC Series appliances need fewer power supplies and often smaller wire gauge, which lightens conduit requirements. They are also backwards compatible with legacy strobes, so there's no need to replace all your existing devices to upgrade to new LED technology. In fact, EGC strobes can be mixed on the same circuit and used in the same field of view as Xenon-based strobes. This makes Genesis LED EGC Series ideal for new installations and retrofits alike.

Field-configurable sound output levels provide the flexibility modern life safety projects demand, while the Genesis LED control protocol keeps multiple strobes on compatible NAC circuits synchronized to well within NFPA 72 requirements.

Serviceability is another area where EGC Series appliances shine. The universal room side wiring plate allows for pre-installation and electrical wiring as well as checking continuity with the included diagnostics check bar. EGC Series devices can then be easily snapped into place with the confidence of knowing the wiring is correct. The innovative under-cover diagnostic test points provide easy access to device circuit testing while mounted.

Standard Features

- **High Performance LED Strobe Technology**
 - Ultra low device current consumption allows:
 - More devices per circuit
 - Ability to use lower gauge wire
 - Longer wire runs
 - Fewer booster power supplies
 - High efficiency optics
 - Selectable 15, 30, 75, or 115 cd light output
 - LED devices may be mixed with legacy Xenon strobes
- **Efficient Audible Output**
 - Selectable high or low dB horn output
 - Selectable temporal or steady horn output
 - Improved audio frequency range for better wall penetration
- **Low-profile Design**
 - Ultra-slim... protrudes about 1.5" from the mounting surface
 - Attractive appearance... no visible mounting screws
- **Multiple Marking Options**
 - Order Red or White with or without FIRE markings
 - Change markings at any time with replaceable quick-swap covers
- **Easy to Install**
 - Pre-install and pre-wire with convenient universal room side wiring plate
 - Check electrical continuity on room side wiring plate with included diagnostics check bar
 - Diagnostics port streamlines device circuit testing
 - Fits 1-gang, 2-gang, 4-inch octagon, and 4-inch square electrical boxes
 - Optional red and white trim plates available
 - Slide switches for field configuration
 - 12 to 18 AWG in-out screw terminals for quick wiring

Application

Strobes

Genesis EGC Series strobes are UL 1971-listed for use indoors as ceiling-mounted public-mode notification appliances for the hearing impaired. Prevailing codes require strobes to be used where ambient noise conditions exceed 105 dBA (87 dBA in Canada), where occupants use hearing protection, and in areas of public accommodation as defined in the Americans with Disabilities Act.

Synchronization is important in order to avoid triggering seizures in people with photosensitive epilepsy. All Genesis strobes exceed UL synchronization requirements (within 10 milliseconds over a two-hour period) when used with a synchronization source. See the specifications table for a list of compatible sources.

Horns

Genesis horn output reaches as high as 92 dBA and features an improved audio frequency range compared with other Genesis horns. This results in excellent sound penetration through walls and a clear warning of danger. Horn only models may be configured for either coded or non-coded notification appliance circuits. They can also be set for high or low dBA output. This setting reduces horn output by about 6 dBA.

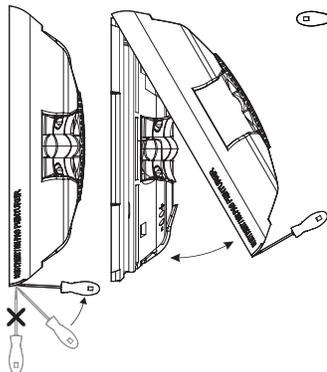
The suggested sound pressure level for each signaling zone used with alarm signals is at least 15 dBA above the average ambient sound level, or 5 dBA above the maximum sound level having a duration of at least 60 seconds, whichever is greater. These values are measured at five feet (1.5 m) above the floor. The average ambient sound level is A-weighted, fast response sound pressure measured over a 24-hour period.

Doubling the distance from the signal to the ear will theoretically result in a 6 dBA reduction of the received sound pressure level. The actual effect depends on the acoustic environment in the space. A 3 dBA difference represents a barely noticeable change in volume.

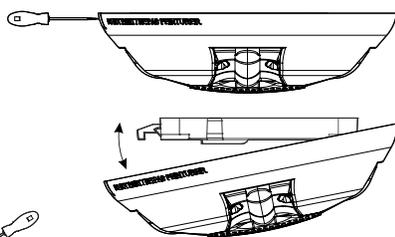
Installation

Genesis EGC horns and strobes mount to the required GP10 room side wiring plate. The GP10 mounting plate is included with the device for convenient pre-installing and pre-wiring. The device can be removed easily from the room side wiring plate by pushing up with a screwdriver. The cover can also be removed from the device easily with a screwdriver to access the light and sound output settings and a diagnostics test port for voltage testing.

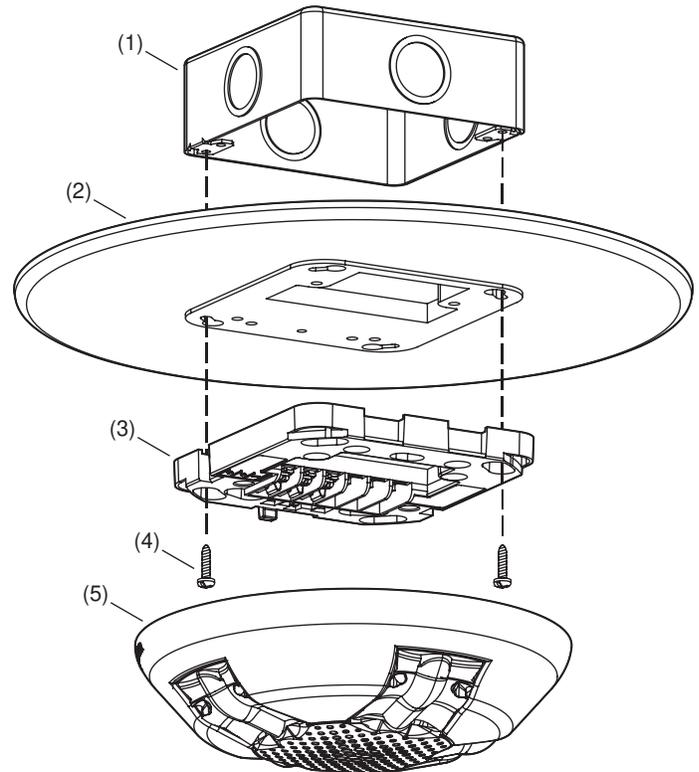
Removing Cover



Removing Device

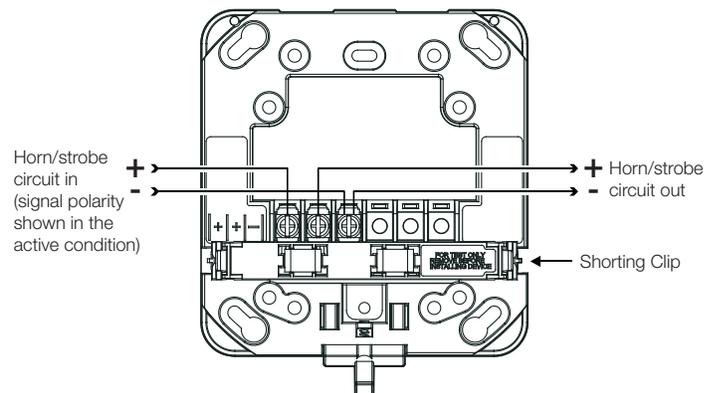


Genesis LED EGC Series horns, strobes, and horn-strobes mount to any standard one-gang, two-gang, 4-inch octagon, and 4-inch square electrical box. Matching optional EGCT trim rings are available to cover oversized openings. Optional color matched double-gang surface boxes are also available. Genesis LED EGC series are listed to be both wall mounted or ceiling mounted.



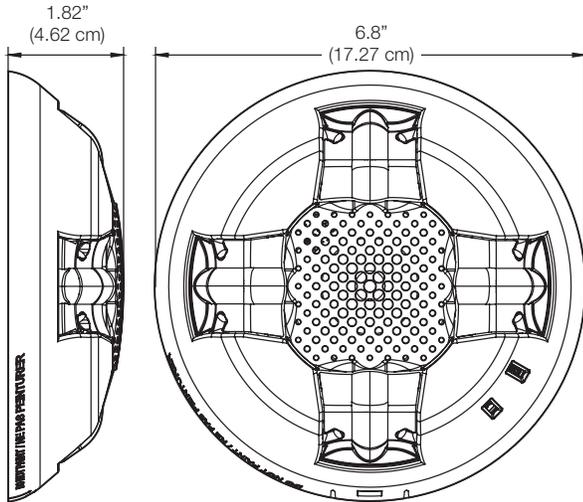
- (1) Electrical Box
- (2) Trim Plate (optional)
- (3) Wiring plate (required, included with device)
- (4) Machine screw (2X, supplied with wiring plate)
- (5) EGC signaling appliance

Wiring

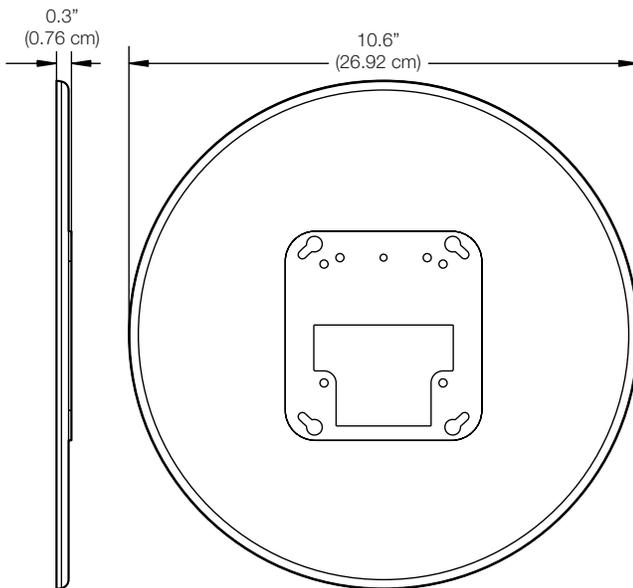


Dimensions

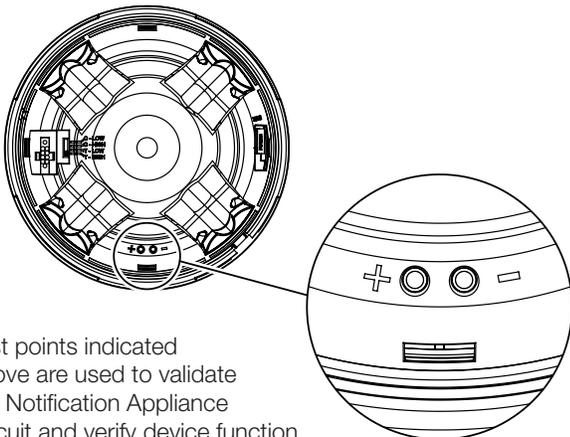
EGC Notification Appliances



EGCT Trim Plate (optional)



Diagnostics



Test points indicated above are used to validate the Notification Appliance Circuit and verify device function.

Field Configuration

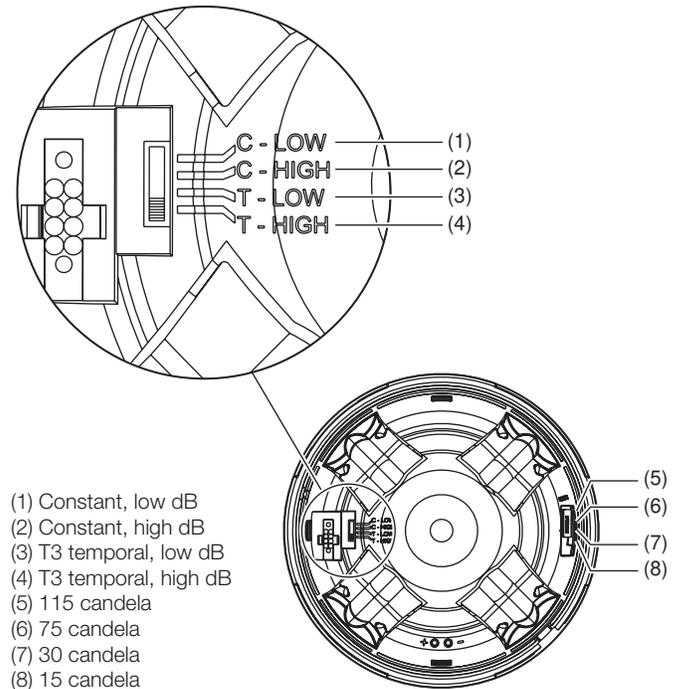
Temporal horn and horn-strobe models are factory set to sound in a three-pulse temporal pattern. By sliding the tone selector switch, horn only models may be configured for constant horn output that can be coded at precise intervals by KIDDE control panels and control modules.

Note: Temporal 3 coding is the required output for fire notification devices per NFPA 72. Any device coding other than temporal 3 is at the discretion and approval of the local authority having jurisdiction (AHJ).

Horns and horn-strobes are factory set for high dB output. Low dB output may be selected by sliding the tone selector switch. This reduces the output by about 6 dBA.

Genesis LED clear strobes and horn-strobes may be set for 15, 30, 75, or 115 candela output. The output setting is changed by simply removing the cover and sliding the candela switch to the desired setting. The device does not have to be removed from the wall to change the output setting. The setting remains visible through a small window on the device after the cover is closed.

Light and Sound Output Settings



- (1) Constant, low dB
- (2) Constant, high dB
- (3) T3 temporal, low dB
- (4) T3 temporal, high dB
- (5) 115 candela
- (6) 75 candela
- (7) 30 candela
- (8) 15 candela

Operating current

| Horns | 16 to 33 | | Strobes | 16 to 33 | |
|----------------|---------------|-------|-----------------|----------------|-------|
| | Sound setting | VDC | | Strobe setting | VDC |
| C-Low, T-Low | 20 mA | 25 mA | 15, 30, 75, 115 | 35 mA | 45 mA |
| C-High, T-High | 30 mA | 40 mA | | | |

Horn-Strobes

| Strobe setting | Sound setting | 16 to 33 VDC | 16 to 33 VFWR |
|-----------------|----------------|--------------|---------------|
| 15, 30, 75, 115 | C-Low, T-Low | 50 mA | 60 mA |
| | C-High, T-High | 60 mA | 75 mA |

Sound Output

Horn & Horn-Strobe

| Sound setting | Reverberant (UL464) | Anechoic (CAN/ULC - S525) |
|----------------|---------------------|---------------------------|
| C-Low, T-Low | 80 dBA | 86 dBA |
| C-High, T-High | 86 dBA | 92 dBA |

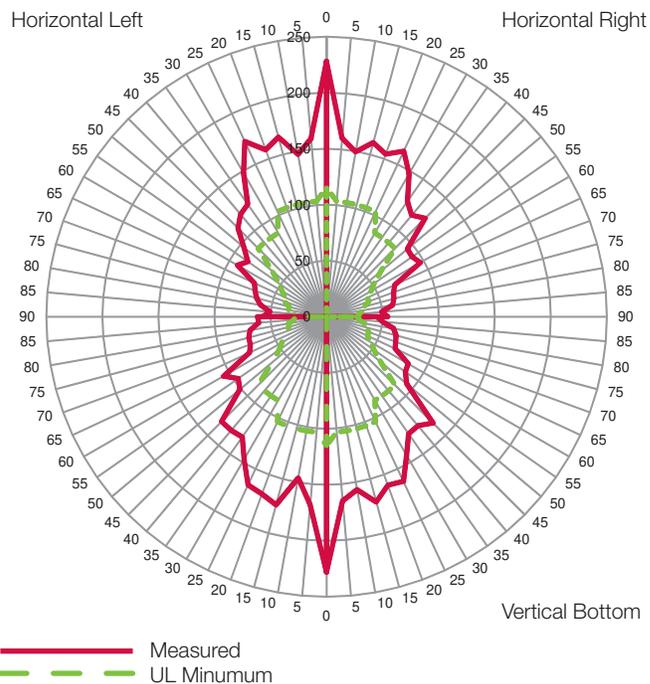
Sound pattern – Horn Models (ULC)

| Axis | Angle (°) | Output (dBA) |
|------------|------------|--------------|
| Horizontal | 115 and 55 | 93.3 |
| Vertical | 125 and 50 | 91.7 |

Sound pattern – Horn-Strobe Models (ULC)

| Axis | Angle (°) | Output (dBA) |
|------------|------------|--------------|
| Horizontal | 145 and 35 | 93.0 |
| | 155 and 35 | 90.8 |
| Vertical | 135 and 35 | 92.0 |
| | 155 and 25 | 85.4 |

Light Distribution



Specifications

| | |
|---------------------------------|--|
| Operating voltage | 16 to 33 VDC, 16 to 33 VFWR |
| Horn signal type | Constant or TC3 temporal |
| Light output | 15, 30, 75, or 115 candela |
| Strobe flash rate | 1 fps (flash per second) approx. |
| Synchronization | 20 Ω max. between any two devices. To determine allowed wire resistance, refer to these specifications, and the specifications for the synchronized signal source. |
| Synchronization Sources | Kidde CC Series Signal Modules, Booster and Auxiliary Power Supplies, Intelligent and Conventional Control Panels |
| Wire size | 12 to 18 AWG (0.75 to 2.50 mm ²) |
| Mounting | Wall or Ceiling mount |
| Dimensions (Ø × D) | 6.8 × 1.82 in. (17.27 × 4.62 cm) |
| Strobe-to-box center offset | -1.70 inches (-4.32 cm) |
| Compatible electrical boxes [1] | 1-gang, 2-gang, 4-inch octagon, 4-inch square |
| Trim plates | EGCTR, EGCTW 10.6 × 0.3 in. (26.92 × 0.76 cm) |
| Operating environment | |
| Temperature | 32 to 122°F (0 to 50°C) |
| Relative humidity | 0 to 93% noncondensing |
| Storage Temperature | -40 to 158 F (-40 to 70 C) |

[1] Electrical boxes must be at least 1-1/2 in. (3.81 cm) deep.

Ordering Information

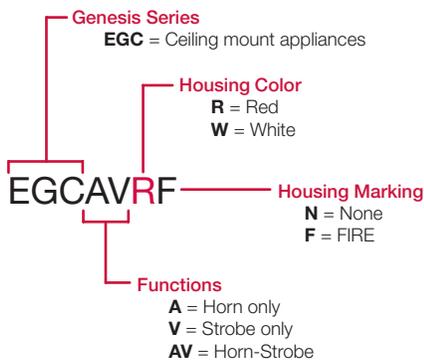
| Notification Appliances | Color | Marking |
|--|---------|---------------|
|  Horns | EGCARF | Red FIRE |
| | EGCAWF | White FIRE |
|  Strobes | EGCVRF | Red FIRE |
| | EGCVRN | Red None |
| | EGCWWF | White FIRE |
| | EGCWWN | White None |
|  Horn-strobes | EGCAVRF | Red FIRE |
| | EGCAVRN | Red None |
| | EGCAWWF | White FIRE |
| | EGCAWWN | White None |

| Replacement Appliance Covers | Color | Marking |
|---|-------------|----------------|
|  Horn Covers | EGCARF-CVR | Red FIRE |
| | EGCAWA-CVR | White ALERT |
| | EGCAWF-CVR | White FIRE |
| | EGCAWN-CVR | White None |
|  Strobe Covers | EGCVRF-CVR | Red FIRE |
| | EGCWA-CVR | White ALERT |
| | EGCWWF-CVR | White FIRE |
| | EGCWWN-CVR | White None |
|  Horn-strobe Covers | EGCAVRF-CVR | Red FIRE |
| | EGCAWA-CVR | White ALERT |
| | EGCAWF-CVR | White FIRE |
| | EGCAWN-CVR | White None |

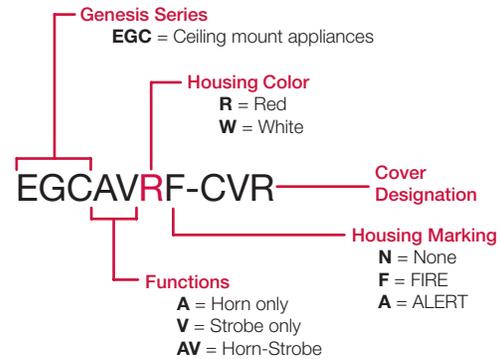
Accessories

| | | |
|--|--|--|
|  GP10 Or  GSRW-10 Room Side Wiring Plate (required, included with device) |  EGCTR Trim plate, EGC Series, red 27193-21 Two-gang surface mount box, red |  EGCTW Trim plate, EGC Series, white 27193-26 Two-gang surface mount box, white |
|--|--|--|

Model Number Syntax, Appliances



Model Number Syntax, Replacement Covers





Technology that saves lives

Contact us

Phone: 888.244.9979 (Option 4)

Email: kidde.fire@carrier.com

Website: kidde-esfire.com

Kidde is a Carrier brand.
8985 Town Center Pkwy,
Bradenton, FL 34202

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