

LIFE SAFETY & INCIDENT MANAGEMENT

# Genesis LED G1 Series

Compact Notification Devices









### Overview

Genesis LED G1 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 circuits and power supplies. These new appliances are designed with energy-efficiency and life safety in mind.

Genesis LED G1 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, or 75 cd light output.

Compared with Xenon-type strobes, Genesis LED G1 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, G1 strobes can be mixed on the same circuit and used in the same field of view as Xenon-based strobes. This makes Genesis LED G1 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 G1 Series appliances shine. 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
- High efficiency optics
- Selectable 15, 30, or 75 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

- Compact design... single gang mounting
- Ultra-slim... protrudes about 1" from the mounting surface
- Attractive appearance... no visible mounting screws

### Multiple "FIRE" Marking Options

- Order English, French, Spanish or no FIRE markings
- Change markings at any time with quick-swap covers

### Easy to Install

- Diagnostic test points streamline device circuit testing
- Fits standard 1-gang electrical boxes, no trim ring needed
- Optional trim ring available for 4-inch square boxes
- Slide switches for field configuration
- 12 to 18 AWG in-out screw terminals for quick wiring

## **Application**

#### Strobes

Genesis LED G1 Series strobes are UL 1971-listed for use indoors as wall-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 epileptic sensitivity. All Genesis LED 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.

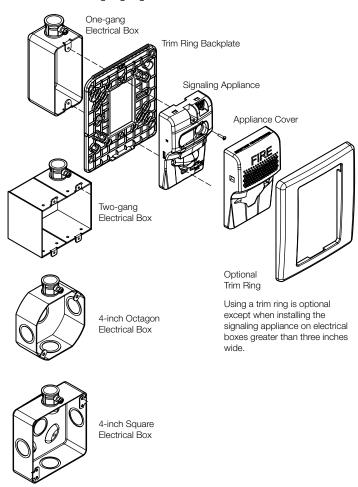
#### **Horns**

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

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 properties of materials in the space. A 3 dBA difference represents a barely noticeable change in volume.

Genesis LED G1 Series horns and strobes mount to any standard one-gang surface or flush electrical box. Matching optional G1T trim rings are available to cover oversized openings and can accommodate one-gang or four-inch square boxes. Optional color matched single-gang surface boxes are also available.

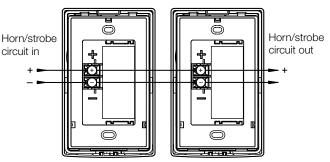


### Installation

All Genesis LED devices come with mounting screws for easy installation. The tab at the bottom of the device unlocks the cover to reveal the mounting holes. The shallow depth of Genesis LED devices leaves ample room behind them for extra wiring. Once installed with the cover in place, no mounting screws are visible.



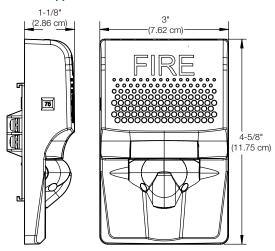
# Wiring



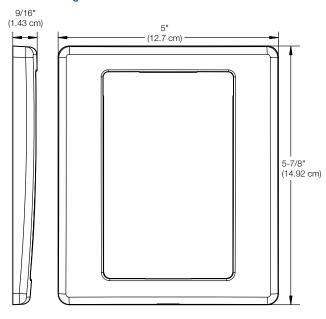
Signal polarity shown in the active condition.

### **Dimensions**

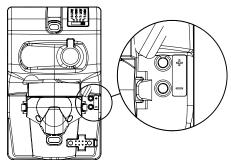
#### **G1 Notification Appliances**



#### **G1T Trim Ring**



# Diagnostics



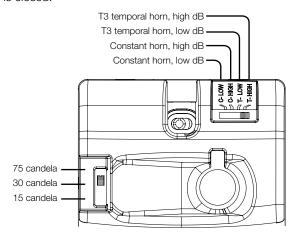
Test points indicated above are used to validate the Notification Appliance Circuit and verify device function.

# 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 units may be configured for constant horn output that can be coded at precise intervals by EDWARDS control panels and control modules.

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, or 75 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 left-hand side of the device after the cover is closed.



# Operating current

### Horns

Sound setting	16 to 33 VDC	16 to 33 VFWR
C-LOW	13 mA	15 mA
C-HIGH	23 mA	29 mA
T-LOW	13 mA	15 mA
T-HIGH	23 mA	29 mA

### **Strobes**

Strobe	16 to 33	16 to 33
setting	VDC	VFWR
15, 30, 75	24 mA	32 mA
15, 30, 75	24 mA	32 m

### Horn-Strobes

Strobe setting	Sound setting	16 to 33 VDC	16 to 33 VFWR
15, 30, 75	C-Low, T-Low	35 mA	43 mA
	C-High, T-High	45 mA	55 mA

# Sound Output

### Reverberant dBA (UL 464)

Sound setting	Horn	Horn-strobe
C-LOW	80	80
C-HIGH	86	86
T-LOW	80	80
T-HIGH	86	86

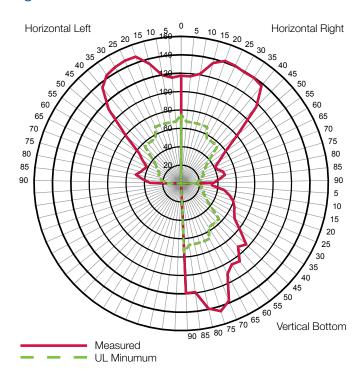
### Anechoic dBA (CAN/ULC-S525)

Sound setting	Horn	Horn-strobe
C-LOW	86	86
C-HIGH	92	92
T-LOW	86	86
T-HIGH	92	92

### Sound pattern (ULC)

Axis	Angle	Change in output
Horizontal	45° and 115°	-3 dBA
	5° and 130°	-6 dBA
Vertical	65° and 135°	-3 dBA
	45° and 140°	-6 dBA

# Light Distribution



# Specifications

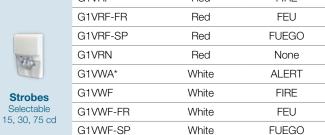
16 to 33 VDC, 16 to 33 VFWR
Constant or T3 temporal
15, 30, or 75 candela
1 fps (flash per second) approx.
$20~\Omega$ max. between any two devices.
(To determine allowed wire resistance, refer to these specifications,
and the specifications for the synchronized signal source.)
EDWARDS CC Series Signal Modules, Booster and Auxiliary Power Supplies,
and Intelligent and Conventional Control Panels
12 to 18 AWG (0.75 to 2.50 mm²)
3 × 4-5/8 × 1-1/8 in. (7.62 × 11.75 × 2.86 cm)
-0.71 inches (-1.8 cm)
1-gang, 2-gang, 4-inch octagon, 4-inch square
G1TR, G1TW - Dimensions 5 x 5-7 x 9/16 in. (12.7 x 14 92 x 1.43 cm)
FCC, ICC, UL1971, UL1638, UL464, CSFM
(All models comply with ADA code of federal regulation Chapter 28 Part 36 final rule)
32 to 122°F (0 to 50°C)
0 to 93% noncondensing

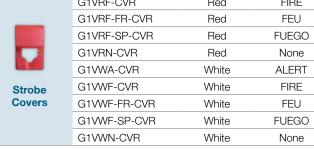
[1] Electrical boxes must be at least 1-1/2 in. (3.81 cm) deep. Electrical boxes greater than three inches wide require a trim ring.

# Ordering Information

Notification Appliances		Color	Marking
	G1ARF	Red	FIRE
	G1ARF-FR	Red	FEU
	G1ARF-SP	Red	FUEGO
	G1ARN	Red	None
	G1AWF	White	FIRE
Horns Selectable High/low dB	G1AWF-FR	White	FEU
	G1AWF-SP	White	FUEGO
	G1AWN	White	None
	G1VRF	Red	FIRE
	O41/DE ED	Daal	CCLL

Replacement Appliance Covers		Color	Marking
	G1ARA-CVR	Red	ALERT
	G1ARF-CVR	Red	FIRE
	G1ARF-FR-CVR	Red	FEU
20000	G1ARF-SP-CVR	Red	FUEGO
	G1ARN-CVR	Red	None
	G1AWA-CVR	White	ALERT
Horn	G1AWF-CVR	White	FIRE
Covers	G1AWF-FR-CVR	White	FEU
	G1AWF-SP-CVR	White	FUEGO
	G1AWN-CVR	White	None
_	G1VRA-CVR	Red	ALERT
	G1VRF-CVR	Red	FIRE
	G1VRF-FR-CVR	Red	FEU





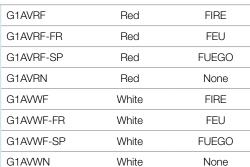


**Horn-strobes** 

Selectable

15, 30, 75 cd,

High/low dB



White

None



### Accessories



G1TR Trim ring, G1 Series, red

G1TW Trim ring, G1 Series, white

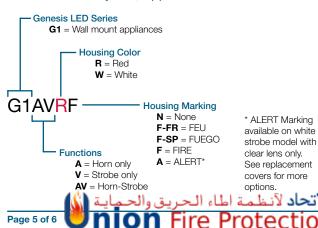
27193-11 One-gang surface mount box, red

email: info@ufp.qa

27193-16 One-gang surface mount box, white

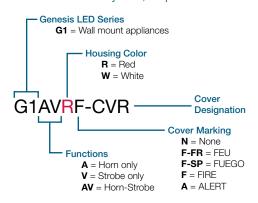
#### Model Number Syntax, Appliances

G1VWN



web: www.ufp.ga

### Model Number Syntax, Replacement Covers





### LIFE SAFETY & INCIDENT MANAGEMENT

#### Contact us...

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