



**Fire-LITE® Alarms**  
INCORPORATED

November 30, 1998

G-120

**Gentex GOT/GOS Series**  
**4" Multi-Tone Electronic**  
**Horn and Horn/Strobes**

Section: Audio/Visual Devices

**GENERAL**

The Gentex GOT/GOS Series 4" multi-tone electronic horns and horn/strobes meet code requirements for supervised fire alarm systems for the hearing impaired and ADA, and other audible signaling code requirements to include code 3 temporal pattern.

The GOT/GOS Series are quality electronic signaling devices that offer you both dependable evacuation, trouble, or distinctive signals and visual alarms, or a combination of both by simple terminal wiring. The GOS Series can also be wired to have independent operation of both horns and strobes (see *wiring diagrams*). This can be simply done by removing two jumper plugs located on circuit board (see *installation manual for details*).

The GOT/GOS Series devices are easily field-changeable from the 800 Hz alarm signal to any other tones by removing selected jumper plugs. Changing from low sound output to high sound output does not prevent reverting back to the original tone at a later date. All units are shipped from the factory in "high" sound output and "steady" alarm mode settings.

When the GOT/GOS Series is used with the AVS44 control module, the temporal patterns, chime, and high/low tones can be synchronized. Using only two wires to the signal, the horn can be silenced while the strobes continue to flash (NFPA 72 1-5.4.8, or 1-5.7.1).

The GOT/GOS Series devices are designed to be used for both new construction or retrofit projects by easily mounting to 4" (10.16 cm) electrical boxes or two-gang old workboxes (see *mounting diagrams*).

All GOT/GOS devices are UL 464/1971 listed for use with fire protective systems and are warranted for two years from the date of purchase.

**STANDARD FEATURES**

- Selectable frequency output.
- Low current consumption.
- Wide voltage range.
- Screw terminals, separate in/out wiring option for both horn and strobe (12 AWG/3.25 mm<sup>2</sup>).
- Multiple tones to select from: 800 Hz, 2400 Hz, Chime, Slow Whoop, 800/1000 Hz Alternating, or Siren.
- Low dB or high dB selectable.
- Temporal pattern or continuous tone at 800 and 2400 Hz.
- Silence horn while strobes remain energized using only two power wires (when used with the AVS44 control module).
- Xenon strobe maintains constant flash rate (1 Hz) regardless of input voltage.
- Textured finish high-impact plastic faceplate.
- Wide variety of mounting options for new construction and retrofit applications when trim plate is used.



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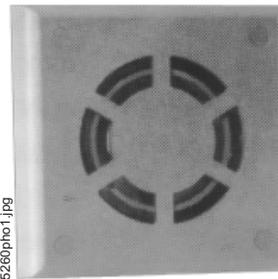


California  
State Fire  
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**MEA**  
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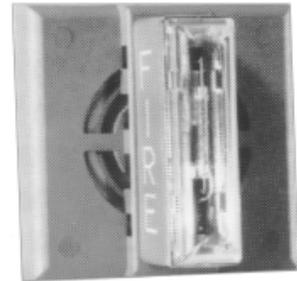
**Complies with:**

- NFPA 72
- ADA 4.28.3  
(15/75, 30/75, 110 cd)



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**GOT**



**GOS**

- Supplied with beauty plugs to accommodate a variety of installations.
- Flush or semi-flush mounting without the need of a trim plate.
- 15/75 candela strobe option (GOS24-1575) meets ADA 4.28.3 requirements.
- 30/75 candela strobe option on GOS24-3075 meets new NFPA requirements for single visual and ADA 4.28.3 requirements.
- All 110 cd models exceed requirements of 4.28.3 of the ADA.
- UL 464/UL 1971 listed for fire protective service/signal for hearing impaired.

**ARCHITECTS'/ENGINEERS'  
SPECIFICATIONS**

The audible or audible/visual shall be Gentex model GOT or GOS or approved equivalent, and shall be listed by Underwriters Laboratories per UL 464, and when combined with the strobe option shall be listed per UL 1971. The notification

This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice. For more information, contact **Fire-Lite**. Phone: (203) 484-7161 FAX: (203) 484-7118



One Fire-Lite Place, Northford, Connecticut 06472

**ISO-9001**  
Engineering and Manufacturing  
Quality System Certified to  
International Standard ISO-9001



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appliance shall also be listed with the California State Fire Marshal (CSFM) and the Bureau of Standards and Appeals (NYC).

The notification appliance shall produce a peak sound output of 90 dBA or greater as measured in an anechoic chamber. The multi-tone audible appliance shall have the capability of producing the following tones without permanent modification: 800 Hz (steady or temporal), 2400 (steady or temporal), chime, slow whoop, 800 - 1000 Hz alternating, or siren. The multi-tone shall have the capability of being utilized with a low dB or high dB output.

The visual signal shall have a 1 Hz flash rate regardless of input voltage.

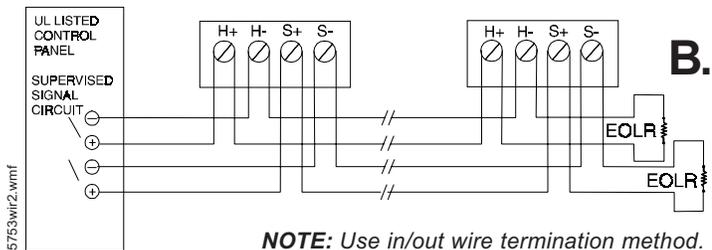
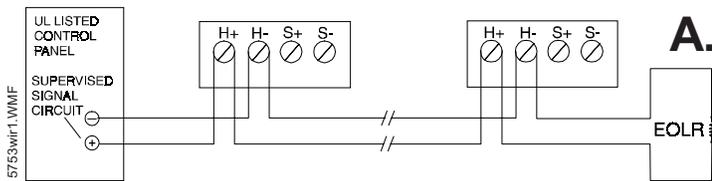
The notification appliance shall be provided with screw terminals for in-and-out field wiring and the strobe shall be capable of operation independently after the audible has been silenced. The notification appliance shall be capable of mounting to most 4" (10.16 cm) square backboxes and a two-gang switch box.

## WIRING DIAGRAMS

**A. GOT and GOS Series powered in parallel.**

**B. GOS Series with Horn and Strobe powered independently.**  
**NOTE: Remove jumpers 5 and 6.**

**NOTE: Power is supplied to devices when control panel is latched.**



**NOTE: Use in/out wire termination method. DO NOT LOOP wires under terminal screw.**

## ELECTRICAL SPECIFICATIONS

TONE	INPUT VOLTAGE	HIGH OUTPUT		LOW OUTPUT	
		10 Ft. Anechoic	Per UL 464	10 Ft. Anechoic	Per UL 464
800 Hz Continuous	21 – 30	95	87	80	78
800 Hz Temporal	21 – 30	95	82	80	74
2400 Hz Continuous	21 – 30	95	88	80	78
2400 Hz Temporal	21 – 30	95	84	80	75
Chime (700 Hz)	21 – 30	90	77	75	68
Slow Whoop (600 Hz -1200 Hz)	21 – 30	95	86	80	78
800 Hz/1000 Hz Alternate	21 – 30	95	86	80	78
Siren (600 Hz - 1200 Hz)	21 – 30	95	85	80	78

**NOTE: For total current draw, add the current for both the strobe and horn together.**

SOUND	JUMPERS REMOVED	Current for LOW Sound Output			Current for HIGH Sound Output		
		21 V	24 V	30 V	21 V	24 V	30 V
800 Hz Continuous	NONE	23 mA	26 mA	32 mA	41 mA	45 mA	52 mA
800 Hz Temporal	J1	23 mA	26 mA	32 mA	40 mA	44 mA	52 mA
2400 Hz Continuous	J2	27 mA	31 mA	37 mA	49 mA	54 mA	64 mA
2400 Hz Temporal	J1, J2	27 mA	31 mA	37 mA	49 mA	54 mA	64 mA
Chime (700 Hz)	J3	21 mA	24 mA	29 mA	39 mA	38 mA	44 mA
Slow Whoop (600 Hz -1200 Hz)	J1, J3	25 mA	28 mA	34 mA	46 mA	50 mA	58 mA
800 Hz/1000 Hz Alternate	J2, J3	26 mA	29 mA	36 mA	48 mA	53 mA	61 mA
Siren (600 Hz - 1200 Hz)	J1, J2, J3	25 mA	28 mA	27 mA	46 mA	50 mA	58 mA

### NOTES:

**Temporal pattern** = 0.5 sec. on, 0.5 sec. off, 0.5 sec. on, 0.5 sec. off, 0.5 sec. on, 1.5 sec. off.

**Chime** = Three consecutive 1-second bursts followed by a 2-second pause.

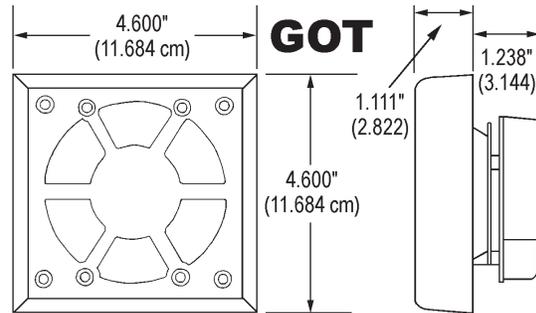
**Slow Whoop** = Repeats every 4.5 seconds starting at 600 Hz ramping up to 1200 Hz.

**800 Hz/1000 Hz Hi-Low** = Alternates between each frequency every 0.5 seconds.

**Siren** = Repeats every three seconds ramping up and down between 600 Hz and 1200 Hz.

## DIMENSIONS

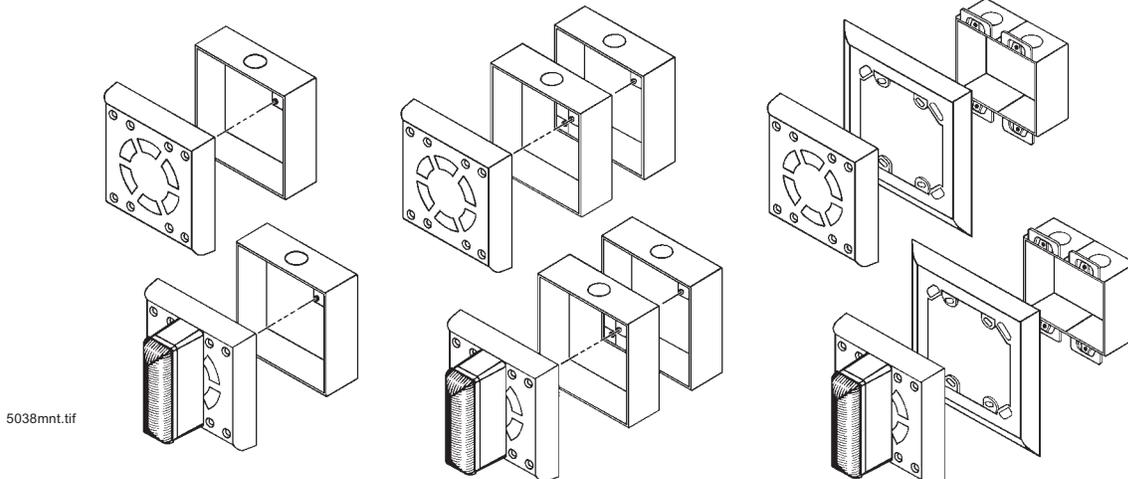
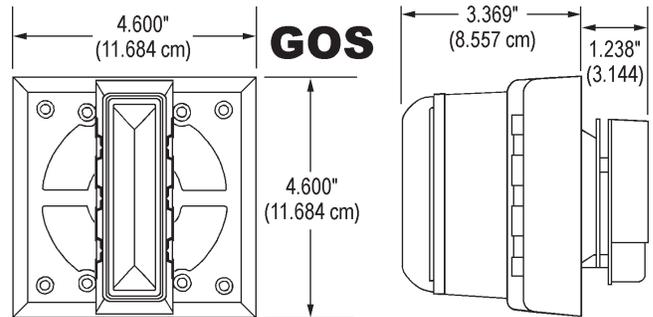
- **GOT** — 4.600" (11.684 cm) high x 4.600" (11.684 cm) wide x 2.349" (5.966 cm) deep.
- **GOS** — 4.600" (11.684 cm) high x 4.600" (11.684 cm) wide x 2.349" (5.966 cm) deep x 3.369" (8.557 cm) forward protrusion.



## MOUNTING

- 4" (101.6 mm) square boxes with brackets, 2-1/8" (53.975 mm) deep minimum.
- 4" (101.6 mm) square metal/nonmetallic switch/outlet boxes, 2-1/8" (53.975 mm) deep minimum.
- Gangable two-gang switch/masonry outlet boxes, 2-1/8" (53.975 mm) deep minimum.

**NOTE:** Supplied with beauty plugs to accommodate a variety of installations.



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AVAILABLE MODELS	STROBE RATED CURRENT					
	Model Number	Nominal Operating Voltage	Light Effective Intensity in Candela	Nominal Operating Current	Inrush*	Peak
GOT-24R (or W)	24 VDC	—	(see pg. 2)	—	—	(see pg. 2)
GOS24-15WR (or WW)	24 VDC	15	78 mA	114 mA	84 mA	(see pg. 2)
GOS24-1575WR (or WW)	24 VDC	15 or 75	105 mA	130 mA	110 mA	(see pg. 2)
GOS24-30WR (or WW)	24 VDC	30	105 mA	130 mA	110 mA	(see pg. 2)
GOS24-3075WR (or WW)	24 VDC	30 or 75	142 mA	120 mA	160 mA	(see pg. 2)
GOS24-60WR (or WW)	24 VDC	60	115 mA	140 mA	120 mA	(see pg. 2)
GOS24-110WR (or WW)	24 VDC	110	220 mA	148 mA	240 mA	(see pg. 2)
GOS24-1575CR (or CW)	24 VDC	15 or 75	115 mA	140 mA	120 mA	(see pg. 2)
GOS24-1575WRZ (or WWZ)	24 VDC	15 or 75	130 mA	490 mA	680 mA	(see pg. 2)

**NOTES:** \*INRUSH CURRENT: for less than 0.2 micro seconds. ALL 24 VDC MODELS operate from 21-30 VDC -20%/+10%. OPERATING TEMPERATURE: 32°F to 120°F (0°C to 49°C). CANDELA: light effective intensity in candela 15/75 or 30/75 per UL 1971 15 or 30) and UL 1638 (75). **WHEN PLACING AN ORDER:** The following letters are used at the end of the model number: "W" (WALL mount), "P" (PLAIN, no lettering), "C" (CEILING mount, 15/75 models only); either "R" at end (RED faceplate), or "W" at end (OFF-WHITE faceplate); "Z" (Z Series synchronized strobe, 15/75 models only) last on applicable models.