

LIFE SAFETY $\mathscr G$ INCIDENT MANAGEMENT

Temporal Horns and Horn-strobes

757 Series





Patented

⋘ MEA





Overview

Integrity temporal horns and temporal horn-strobes are specially designed for use with compatible life safety communication and control equipment to alert occupants of a life safety event. The horn emits a piercing low frequency sound that is easily heard above moderate ambient noise levels. The flash from its strobe can be noticed from almost any position in the room, corridor, or large open space.

Integrity's rugged plastic housing is made from durable and fire retardant, high impact plastic with a slightly textured surface. Its ingenious mounting plate firmly holds the device in place with a single screw. A separate trim plate is not required. Terminals accept up to #12 AWG (2.5mm²) wire for polarized connections.

Strobes are shipped with standard wall mount style "FIRE" lens markings. Where ceiling orientation, other languages, or different lens markings are required, EDWARDS offers optional LKW and LKC series Lens Marking Kits. These optional lens markings simply snap on to the strobe. Consult EDWARDS for availability of special lens markings.

Integrity horns and horn-strobes are designed for 16 to 33 Vdc operation and must be connected to signal circuits that output a constant (not pulsed) voltage. A diode is used to allow full signal circuit supervision.

Standard Features

UL 1971-listed synchronizing strobe
 Integrity strobes synchronize to the latest UL 1971 requirements when used with a synchronization source.

Adjustable Audible Output

Select temporal or continuous tones, and High setting for 98 dBA output or Low setting for 94 dBA sound output.

• Genesis-compatible

All Genesis and Integrity strobes on the same circuit meet UL 1971 synchronization requirements when used with an external control module.

- Approved for public and private mode applications
 UL 1971-listed as signaling devices for the hearing impaired.
- Durable red or white Noryl front plate
 Ideal for outdoor, industrial or harsh environments.

Field changeable field markings

Lens language or standard "FIRE" marking is easily changed with optional LKW and LKC series lens kits.

• Easy Installation

Flush mount to standard North American 4" square or twogang box. Integrity's universal mounting plate allows it to be wired and then left hanging free for easy inspection and testing before it is fastened to the electrical box.

Application

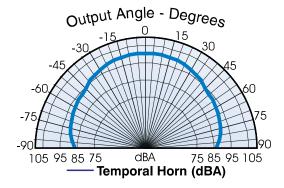
NOTE: The installation of visible and audible signals are subject to national and local standards, codes, and ordinances. Consult your Authority Having Jurisdiction for device installation requirements, application standards, and minimum performance specifications.

Horns

During installation, the horn is configured for steady or temporal tone signal and either low (94 dBA) or high (98 dBA) output. When temporal output is selected all horns on a common two-wire circuit are self-synchronized (see specifications). External control modules are not required for audible synchronization.

Suggested sound pressure level for each signaling zone used with alert or alarm signals is at least 15dB above the average ambient sound level, or 5dB above the maximum sound level having a duration of at least 60 seconds, whichever is greater, measured 5' (1.5m) above the floor. The average ambient sound level is the RMS, A-weighted sound pressure measured over a 24-hour period.

Doubling the distance from the signal to the ear will theoretically result in a 6 dB 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.



Typical Sound Output Distribution dBA measured at 10 ft in anechoic chamber 757 Series Temporal Horn ('HIGH' output)

Strobes

EDWARDS 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 specified levels, where occupants use hearing protection, and in areas of public accommodation. Consult with your Authority Having Jurisdiction for details.

As part of the Enhanced Integrity line of products, 757 Series strobes exceed UL synchronization requirements (within 10 milliseconds other over a two-hour period) when used with a synchronization source. Synchronization is important in order to avoid epileptic sensitivity.

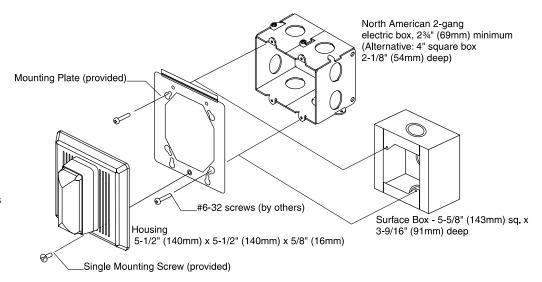
Integrity strobes are fully compatible with EDWARDS Genesis signals.

NOTE: The flash intensity of some visible signals may not be adequate to alert or waken occupants in the protected area. Research indicates that the intensity of strobe needed to awaken 90% of sleeping persons is approximately 100 cd. EDWARDS recommends that strobes in sleeping rooms be rated at at least 110 cd.

WARNING: These devices will not operate without electrical power. As fires frequently cause power interruptions, further safeguards such as backup power supplies may be required.

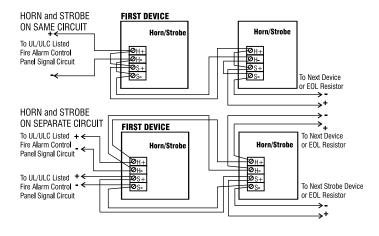
Installation and Mounting

All models fit to a standard flush mounted, North-American two-gang electrical box, 2¾ inch (69 mm) minimum. Optional flush trims are not required. For surface mount, use EDWARDS's custom indoor and outdoor surface boxes painted in color-matched red or white epoxy. EDWARDS recommends that fire alarm horn/strobes always be installed in accordance with the latest recognized edition of national and local fire alarm codes.



Typical Wiring

The strobe must be connected to signal circuits which output a constant (not pulsed) voltage. The horn can be connected to continuous voltage circuits.



Strobe Operating Current (RMS)

UL Rating	15 cd	15/75 cd	30 cd	75 cd	110 cd
16 Vdc	109	150	130	263	329
16 Vfwr	150	210	189	333	420

Typical Current	15 cd	15/75 cd	30 cd	75 cd	110 cd
24 Vdc	69	90	89	159	180
24 Vfwr	108	128	134	255	260

Vdc: Volts direct current, regulated and filtered

Vfwr: Volts full wave rectified

Current Draw Notes and Comments

- 1. Current values are shown in mA.
- UL Nameplate Rating can vary from Typical Current due to measurement methods and instruments used.
- EDWARDS recommends using the Typical Current for system design including NAC and Power Supply loading and voltage drop calculations.
- Use the 16 Vdc RMS current ratings for filtered power supply and battery AH
 calculations. Use the 16 Vfwr RMS current ratings for unfiltered power supply
 calculations.
- Fuses, circuit breakers and other overcurrent protection devices are typically rated for current in RMS values. Most of these devices operate based upon the heating affect of the current flowing through the device. The RMS current

dBA Output

Horn-strobes							
	UL4	anechoic	Peak - ar	nechoic			
	Temporal	Steady	Temporal	Steady	Temporal	Steady	
High dB Output	79.0	85.0	97.0	97.0	102.0	102.0	
Low dB Output	75.0	79.0	93.0	93.0	98.0	98.0	

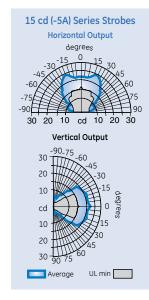
determines the heating affect and therefore, the trip and hold threshold for those

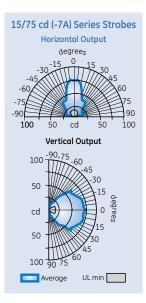
Homo							
	UL4	164	Average -	anechoic	Peak - anechoic		
	Temporal	Steady	Temporal	Steady	Temporal	Steady	
High dB Output	82.0	85.0	98.0	98.0	104.0	104.0	
Low dB Output	75.0	82.0	94.0	94.0	99.0	99.0	

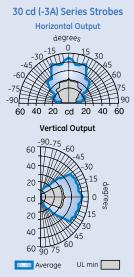
dBA Output Notes and Comments

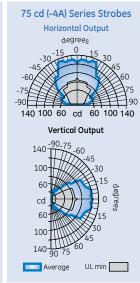
- All values shown are dBA measured at 10 feet (3.01m).
- UL1480 values measured in reverberation room.
- Average values are measured in anechoic chamber.

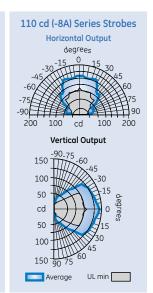
Light Output Patterns

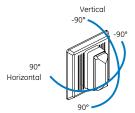












Specifications

Rated Strobe Output - candela (cd)	757-1A-T	757-5A-T	757-7A-T	757-3A-T	757-4A-T	757-8A-T	
UL 1971		15 cd (indoor only)	75 cd	30 cd	75 cd	110 cd	
OL 1971	N/A (horn only)	15 cd (wall mount only)	15 cd wall 15 cd ceiling	30 cd wall 15 cd ceiling	75 cd wall 60 cd ceiling	110 cd wall 60 cd ceiling	
ULC S526		15 cd	75 cd	30 cd	75 cd	120 cd	
Standalone Synchronization Characteristics (note 2)	Strobe flash	·	ithin 200 millisecond ithin 200 millisecond	ds on common circ	uit .	emporal rate	
Operating Volts			Strobe: 16-33 Vdc Horn: 16-33 Vdc	or Vfwr Continuous			
Horn Output (note 1)	Anechoic:	Reverberent: H	dBA (peak)/98 dBA ligh Setting - 85 dB etting - 82 dBA (con	A (continuous)/82 d	dBA (temporal);	dBA (avg)	
Horn Current		U	tput: 40 mA @ 24 \ put: 20 mA @ 24 V	, , , , , , , , , , , , , , , , , , ,			
Strobe Flash Synchronization	Synchronized a		ond. External contro ents of 10 milliseco	,		synchronization	
Synchronization Sources	G1M-RM, SIGA-CC1S, SIGA-MCC1S, BPS6A, BPS10A						
Strobe Marking	Supplied with LKW-1 "FIRE" red letters, vertical both sides (Wall Mount) - see LKW and LKC series for ceiling style and optional markings.						
Flash Tube Enclosure		(Clear LEXAN with w	hite marking sleeve	9		
Housing	Textu	red, color impregna	ated engineered pla	stics - exceeds 94V	/-0 UL flammability	rating	
Wire Connections	Term		larized inputs for Ho			mum	
INDOOR Operating Environment		,	C) ambient temper		,		
OUTDOOD O	98% relative humidity @ 40° C; -31-150° F (-35-66° C) ambient temperature						
OUTDOOR Operating Environment (must use weatherproof box)	(757-4A: rated at 48 cd @ -35° C per UL/@ -40° C per ULC)						
(must use weatherproof box)	(757-7A: rated at 17.7 cd @ -35° C per UL/@ -40° C per ULC) (757-8A: rated at 70.7 cd @ -35° C per UL/@ -40° C per ULC)						
Mounting - INDOOR	Flush: North-American 2-gang box, 3" high x 4" wide x 2¾" (69 mm) minimum Surface: 757A-SB Back box Bi-directional: 757A-BDF Mounting Frame					1	
Mounting - OUTDOOR			Surface: 757A-WB				
Agency Listings	UL 1971, UL 464, ULC S526, ULC S525, MEA, CSFM, FM (All models comply with ADA Code of Federal Regulation Chapter 28 Part 36 Final Rule)						

Note 1 - Measured at 10 ft (3m) @ 24 Vdc. Subtract 3 dBA for models with strobes. Note 2 - Temporal audible pattern is defined as: ½ sec ON, ½ sec OFF, ½ sec ON, ½ sec OFF, ½ sec ON, 1½ sec OFF, then repeat cycle. Integrity audible will not be affected by Genesis signal silence operation when on the same two wire circuit with Genesis horn strobes.

Ordering Information

Catalog Number	Description	Ship Wt., lb. (kg)
Temporal F	lorns	
757-1A-T*	Temporal Horn, Red	1.7 (0.8)
Temporal F	lorn-Strobes	
757-7A-T*	Temporal Horn-Strobe, 15/75cd, Red	_
757-5A-T*	Temporal Horn-Strobe, 15cd, Red	_
757-3A-T*	Temporal Horn-Strobe, 30cd, Red	2.0 (0.9)
757-4A-T*	Temporal Horn-Strobe, 75cd, Red	
757-8A-T*	Temporal Horn-Strobe, 110cd, Red	
Synchroniz	ation Sources	
G1M-RM	Genesis Signal Master Remote Mount (1-gang)	0.2 (0.1)
SIGA- CC1S	Synchronization Output Module (Standard Mount) - UL/ULC Listed	0.5 (0.23)
SIGA- MCC1S	Synchronization Output Module (UIO Mount) - UL Listed	0.18 (0.08)
BPS6A	6.5 Amp Booster Power Supply	13 (5.9)
BPS10A	10 Amp Booster Power Supply	13 (5.9)
Mounting A	Accessories	
757A-SB*	Surface Box, Red, Indoor	1.5 (0.7)
757A-WB*	Weatherproof Box, Red, Surface	1.5 (0.7)
757A-BDF*	Bi-directional Frame, Red	4 (1.8)

Lens Marking Kits (see note 1) LKW-1 "FIRE", Wall Orientation (supplied) LKW-1R "FIRE", Wall Orientation, RED LKW-2 "FEU", Wall Orientation LKW-3 "FIRE/FEU", Wall Orientation LKW-4 "SMOKE", Wall Orientation 0.1 (.05) LKW-5 "HALON", Wall Orientation LKW-6 "CO2", Wall Orientation LKW-7 "EMERGENCY", Wall Orientation LKW-8 "ALARM", Wall Orientation LKW-9 "FUEGO", Wall Orientation LKW-10 "ALERT", Wall Orientation Add Suffix "W" to catalog no. for WHITE. (e.g. 757-7A-TW) Change "W" to "C" for CEILING mount. (e.g. LKC-1)



LIFE SAFETY & INCIDENT MANAGEMENT

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