

SONFL1X Alarm Horn Sounder & Xenon Strobe Beacon

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Features

- Automatic synchronisation
- Continuously rated
- Back box options with and without mounting lugs
- Dual M20, 1/2"NPT clearance cable entries option
- Duplicate cable terminations
- Ingress protection IP66 Type 3R/13
- 3 user selectable flash rates
- 10 alarm tone frequencies with second remotely activated alarm stage
- Available with custom tone configurations and frequencies
- Diode polarized for use in supervised circuits

Approvals

- UL: UL464A & UL1638A
- cUL: CSA C22.2 No. 205 - M1983
- EU CPR: (EN54-3 & EN54-23) 2821-CPR-0284
- MED 2020/1170: MEDB00001EH
- CSFM listing: 7135-2279:0511
- EAC CU TR 043/2017: B.00291/21
- EAC: RU D-GB.GA05.B.12595-20
- RMRS Marine: No. 19.00193.278
- CE, UKCA



Specification

Alarm Horn:

Maximum output: 103dB(A) @ 1 m ±3dB
[94dB(A) @ 10ft/3m ±3dB]

Nominal output: 101dB(A) @ 1m ±3dB
[92dB(A) @ 10ft/3m ±3dB]

No. of tones: 10 (UK00A / PFEER compliant)

No. of stages: 2 (AC voltage variants 1 stage)

Volume control: -12dB(A) tone dependent

Effective range: 38m/124ft @ 1KHz

Voltages DC: 12Vdc; 24Vdc
MED version: 20-30V dc

Voltages AC: 24V ac; 115V ac; 230V ac

Stage switching: Negative (common positive)

Xenon Strobe:

Energy: 5 Joules(5Ws)

Flash rate: 1Hz (60 fpm)
DC units: 1.5Hz (90 fpm) & Double strike

Peak Candela: 500,000 cd - calculated from energy (J)

Effective cd: 250 cd - calculated from energy (J)

Peak Candela: 86,935 cd* - measured ref. to I.E.S.

Effective cd: 200 cd* - measured ref. to I.E.S.

Tube life: Emissions may reduce to 70% after 8 million flashes

General:

Ingress protection: IP66 Type 3R/13

Enclosure: High impact UL94 V0 & 5VA FR ABS

Lens colour filter: Field replaceable UV stable PC

Terminals (alarm horn): 0.5 - 1.5mm² (22-16 AWG)

Terminals (beacon): 0.5 - 2.5mm² (20-14 AWG)

Line monitoring: Diode polarized for use in supervised circuits

Operating: -40 to +55°C [-40° to +131°F]

Storage: -40 to +70°C [-40° to +158°F]

Relative humidity: 90% at 20°C [68°F]

Vibration test: 35Hz for a duration 4Hr (UL464A/UL1638A)

Jarring test: 3ft/lb Energy (UL464A/UL1638A)

Impact test: 3x 5lb (UL464A/UL1638A)

MTBF: 93.92 years / 822,706 hours - MIL 217

Weight: 0.50kg / 1.10lbs

Part Codes

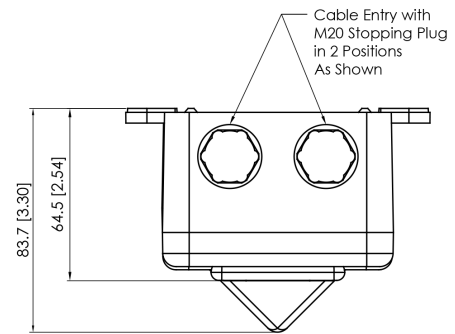
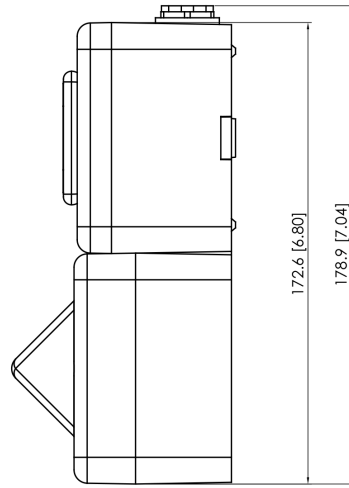
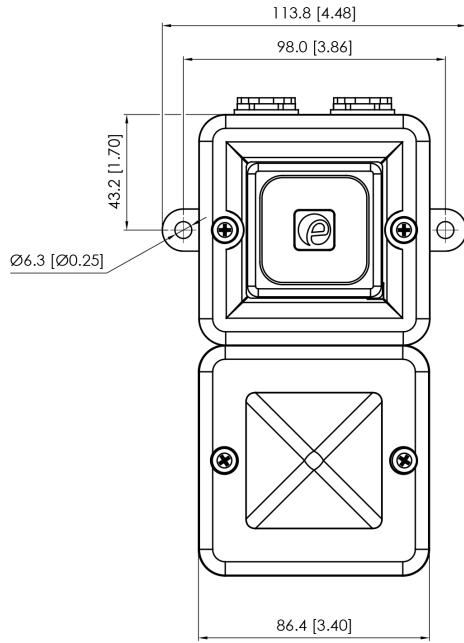
Variable: Identifier: Description:

Product type:	SONFL1X	Combined alarm horn sounder & Xenon strobe
Voltage:	DC012	12Vdc (10-14Vdc)
	DC024	24Vdc (20-28Vdc)
	AC024	24Vac 50/60Hz
	AC115	115Vac 50/60Hz
	AC230	230Vac 50/60Hz
Back box/cable entries: [e]	M	Back box with mounting lugs - 2 x M20, 1/2"NPT clearance
Stopping plug material: [m]	A	ABS
Equip. tag/Duty label: [s]	0	No equip. tag or Duty label
	1	316 (A4) St/St Equip. tag/Duty label
	2	Metalised Polyester Equip. tag/Duty label
Product version: [v]	A	UL/cUL, CPR, RMRS, EAC, CE, UKCA, MED, RMRS
Product option: [o]	1	Standard product
	X	Custom configuration - contact E2S
	Z	Custom alarm tone software - contact E2S
Enclosure: [x]	R	Red (RAL 3000)
	G	Grey (RAL 7038)
	W	White
Lens colour: [y]	A	Amber
	B	Blue
	C	Clear
	G	Green
	M	Magenta
	R	Red
	Y	Yellow

Note: MED compliance only applies to 24Vdc version

Current Consumption

Product Version:	Nominal Voltage:	Voltage Range:	Beacon Current:	Horn Current:
DC012	12Vdc	10-14Vdc	341mA	25mA
DC024	24Vdc	20-28Vdc	250mA	25mA
AC024	24Vac	±10% 50/60Hz	300mA	40mA
AC115	115Vac	±10% 50/60Hz	70mA	13mA
AC230	230Vac	±10% 50/60Hz	35mA	13mA



Tone table

S 1 Description

		S 2
T 1	800/1000Hz @ 0.25 sec Alternating	T 8
T 2	500/1200Hz @ 0.3Hz 0.5 sec Slow Whoop	T 1
T 3	1200/500Hz @ 1Hz - DIN / PFEER P.T.A.P.	T 8
T 4	544Hz (100mS)/440Hz (400mS) - NF S 32-001	T 9
T 5	Bell	T 1
T 6	800/1000Hz @ 7Hz Sweeping	T 8
T 7	500-1200Hz 3.75sec /0.25sec. Australian Evac.	T 10
T 8	1000Hz Continuous - PFEER Toxic Gas	
T 9	Continuous 554Hz	
T 10	420Hz @ 0.625 sec Australian Alert	

S1 Frequency Description (AC version)

T 1	800/1000Hz @ 0.25 sec Alternating	
T 2	500/1200Hz @ 0.3Hz 0.5 sec Slow Whoop	
T 3	1200/500Hz @ 1Hz - DIN / PFEER P.T.A.P.	
T 4	544Hz (100mS)/440Hz (400mS) - NF S 32-001	
T 5	1000Hz Continuous - PFEER Toxic Gas	
T 6	Bell	
T 7	800/1000Hz @ 7Hz Sweeping	
T 8	2400/2900Hz @ 50Hz Sweeping	
T 9	420Hz @ 0.625 sec Australian Alert	
T 10	500-1200Hz 3.75sec /0.25sec. Australian Evac.	