2-21-010 / Fire & industrial audible & visual signals

SONF1 Alarm Horn Sounder

The SONF1 is a compact, high output, 100dB(A) alarm sounder. Low current consumption and high SPL in a robust fire retardant housing ensure it is suitable for general signalling applications including fire, security and process control.

Sonora range offers compact audio visual signaling for fire, industrial, process control and machine safety applications. The range features low current consumption combined with high performance. The SONF1 is available with two levels of sound level output and is CPR compliant (tested to EN54-3) for fire alarm use. Approved by VdS and UL.

Features

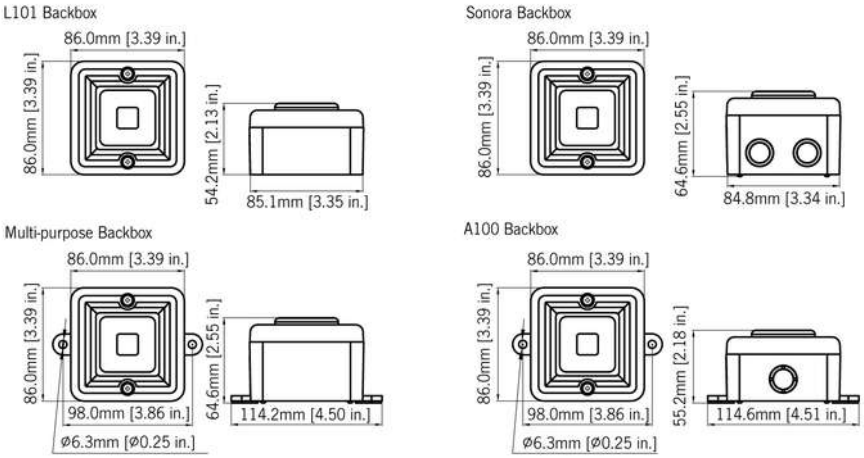
- Automatic synchronisation on multi-sounder system.
- Continuously rated.
- Stainless steel fixings.
- Mounting via internal BESA compatible fixing positions (standard version) or via external mounting lugs.
- Duplicate cable terminations (in & out for daisy-chain installations).
- Tropicalisation available on request.
- Available with custom tone configurations and frequencies.

Approvals

- VdS approved: EN54-3 (CPD 89/106/EEC).
- UL & cULs approved: General signalling use.
- GOST-R approved. Cert: POCC GB.JB05.H00144.
- Marine Equipment Directive (MED) Certificate: MEDB00001EH







Specification

Maximum output:	100dB(A) @ 1 metre [91dB(A) @ 10ft/3m]
Nominal output:	99dB(A) @ 1m +/- 3dB – Tone 1 [90dB(A) @ 10ft/3m]
No. of tones:	10 (UKOOA / PFEER compliant)
No. of stages:	2 (AC voltage variants 1 stage)
Volume control:	On board potentiometer
Effective range:	30m/98.4ft @ 1KHz
Voltages DC:	24V dc (10-30V dc) Reverse polarity diode protection on DC units. MED version: 20-30V dc
Voltages AC:	24V ac; 115V ac; 230V ac
Ingress protection:	IP66 (UL version Type 13 & 3R)
Housing material:	High impact UL94 V0 & 5VA FR ABS
Colour:	Red (RAL3000), grey (RAL7038) & white.
Cable entries:	4 x M20 clearance gland knockouts in side & back
Terminals:	0.5 to 1.5mm² cables.
Operating temp:	-25 to +55°C [-13° to +131°F]
Storage temp:	-40 to +70°C [-40° to +158°F]
Relative humidity:	90% at 20°C [68°F]
Vibration Test:	35 cycles per second 0.01" for a duration 4Hr (UL464)
Jarring Test:	5ft/lb Impact (UL464)
Impact Test:	3x 1lb @ 5ft (UL464)
Weight:	0.30kg/0.66lbs

Part Codes

Version:	Part code:
24V dc	SONF1DC24[b][x]
24V ac	SONF1AC24[b][x]
115V ac	SONF1AC115[b][x]
230V ac	SONF1AC230[b][x]
[b] = Back box type:	No identifier: Sonora type – 3 x side & 1 x rear 20mm knockouts A: A100 type with lugs – 2 x side & 1 x rear 20mm knockouts M: Multi type with lugs – 1 x side 20mm entry with stopping plug
[x] = Enclosure colour:	G: Grey (RAL7038) R: Red (RAL3000) W: White
Suffix part number with '-UL' for UL approved version	
Suffix part number with '-M' for MED approved version [24V dc unit only]	

Alarm Sounder

Version:	Voltage:	Current:
24V dc	10-30V dc MED version: 20-30V dc	25mA
24V ac 50/60Hz	+/-10%	40mA
115V ac 50/60Hz	+/-10%	13mA
230V ac 50/60Hz	+/-10%	13mA

Tone table

S 1	Description	S 2
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	\2.1000Hz Continuous - PFEER Toxic Gas	
T 9	\2.Continuous 554Hz	
T 10	\2.420Hz @ 0.625 sec Australian Alert	
\4.AC Version (Single stage only):		
S1	\2.Description	
T 1	\2.800/1000Hz @ 0.25 sec Alternating	
T 2	\2.500/1200Hz @ 0.3Hz 0.5 sec Slow Whoop	
T 3	\2.1200/500Hz @ 1Hz - DIN / PFEER P.T.A.P.	
T 4	\2.544Hz (100mS)/440Hz (400mS) - NF S 32-001	
T 5	\2.1000Hz Continuous - PFEER Toxic Gas	
T 6	\2.Bell	
T 7	\2.800/1000Hz @ 7Hz Sweeping	
T 8	\2.2400/2900Hz @ 50Hz Sweeping	
T 9	\2.420Hz @ 0.625 sec Australian Alert	
T 10	\2.500-1200Hz 3.75sec /0.25sec. Australian Evac.	

No liability is accepted for any consequence of the use of this document. The technical specification of this unit is subject to change without notice due to our policy of continual product development. All dimensions are approximate. This unit is sold subject to our standard conditions of sale, a copy of which is available on request.