SONFL1X Alarm Horn & Xenon Strobe Beacon

The SONFL1X features the 100dB(A) SONF1 alarm horn sounder combined with the L101X Xenon strobe beacon. The compact, robust housing is ideal for all general signalling applications including fire, security and process control.

The 5 Joule Xenon strobe generates over 200 candela of light output. DC versions have multiple flash rates selectable during installation. Sounder & beacon may be connected from a single supply for simultaneous operation or from separate supplies for independent operation.

Features

- Automatic synchronisation on multi-sounder system.
- High output Xenon beacon.
- DC voltage units feature multiple flash rates.
- Continuously rated.
- Stainless steel fixings.
- Mounting via internal BESA compatible fixing positions 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 and EN54-23 (CPR 305/2011/EU).
- UL & cULus approved: General signalling use.
- GOST-R approved. Cert: P0CC GBJB05-H00144.
**Specification**

**Sounder:**
- 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
- Volume control: On board potentiometer
- Effective range: 30m/99ft @ 1KHz

**Beacon:**
- Energy: 5 Joules (5Ws)
- Flash rate: 1Hz (60 fpm)
- Peak Candela: 500,000 cd – calculated from energy (J)
- Effective Intensity: 250 cd – calculated from energy (J)
- Peak Candela: 86,995 cd* – measured ref. to I.E.S.
- Effective Intensity: 200 cd* – measured ref. to I.E.S.
- Lens colours: Amber, Blue, Clear, Green, Magenta, Red & Yellow
- Tube life: Emissions are reduced to 70% after 5 million flashes

**General:**
- Voltages DC: 12Vdc; 24V dc
- Voltages AC: 24V ac; 115V ac; 230V ac
- Ingress protection: IP66
- Housing material: High impact UL94 V0 & 5VA FR ABS
- Colour: Red (RAL3000), grey (RAL7038) & white.
- Lens material: PC
- 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]
- Weight: 0.50kg/1.1lbs

*SPL data +/-3dB(A). Measured at optimum voltage.

*Candela measurements representative of performance with clear lens at optimum voltage.

**Part Codes**

**Version:**
- 12V dc: SONFL1XDC012
- 24V dc: SONFL1XDC024
- 24V ac: SONFL1XAC024
- 115V ac: SONFL1XAC115
- 230V ac: SONFL1XAC230

**Part code:**
- [x] = Enclosure colour: G: Grey (RAL7038)
- R: Red (RAL3000)
- W: White
- [y] = Lens colour: A: Amber
- B: Blue
- C: Clear
- G: Green
- M: Magenta
- R: Red
- Y: Yellow

Suffix part number with ‘-UL’ for UL approved version.
Suffix part number with ‘-M’ for MED approved version [24V dc unit, Clear lens only]

**CPR – EN54-3 & EN54-23:**
- Part code: SONFL1XDC024/C
- Environmental class: Type B – for outdoor use
- Visual range: Category W-2.4-4.8
- Signal colour: Clear (1Hz)

**Alarm Sounder**

**Version:**
- 12V dc: 10-30V dc
- 24V dc: 10-30V dc
- 24V ac 50/60Hz +/-10%
- 115V ac 50/60Hz +/-10%
- 230V ac 50/60Hz +/-10%

**Current:**
- 25mA*
- 25mA*
- 40mA
- 13mA
- 13mA

* current at nominal voltage on Tone 2

**Xenon Beacon**

**Version:**
- 12V dc: 10-14V dc
- 24V dc: 20-28V dc
- 24V ac 50/60Hz +/-10%
- 115V ac 50/60Hz +/-10%

**Current:**
- 250mA
- 300mA
- 70mA
<table>
<thead>
<tr>
<th>Tone</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>S1</td>
<td>800/1000Hz @ 0.25 sec Alternating</td>
</tr>
<tr>
<td>S2</td>
<td>500/1200Hz @ 0.3Hz 0.5 sec Slow Whoop</td>
</tr>
<tr>
<td>S3</td>
<td>1200/500Hz @ 1Hz - DIN / PFEER P.T.A.P.</td>
</tr>
<tr>
<td>S4</td>
<td>544Hz (100mS)/440Hz (400mS) - NF S 32-001</td>
</tr>
<tr>
<td>S5</td>
<td>Bell</td>
</tr>
<tr>
<td>S6</td>
<td>800/1000Hz @ 7Hz Sweeping</td>
</tr>
<tr>
<td>S7</td>
<td>500-1200Hz 3.75sec /0.25sec. Australian Evac.</td>
</tr>
<tr>
<td>S8</td>
<td>2.1000Hz Continuous - PFEER Toxic Gas</td>
</tr>
<tr>
<td>S9</td>
<td>2. Continuous 554Hz</td>
</tr>
<tr>
<td>S10</td>
<td>2.420Hz @ 0.625 sec Australian Alert</td>
</tr>
</tbody>
</table>

**AC Version**

(Single stage only):

<table>
<thead>
<tr>
<th>Tone</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>T1</td>
<td>2. 800/1000Hz @ 0.25 sec Alternating</td>
</tr>
<tr>
<td>T2</td>
<td>2.500/1200Hz @ 0.3Hz 0.5 sec Slow Whoop</td>
</tr>
<tr>
<td>T3</td>
<td>2.1200/500Hz @ 1Hz - DIN / PFEER P.T.A.P.</td>
</tr>
<tr>
<td>T4</td>
<td>2.544Hz (100mS)/440Hz (400mS) - NF S 32-001</td>
</tr>
<tr>
<td>T5</td>
<td>2.1000Hz Continuous - PFEER Toxic Gas</td>
</tr>
<tr>
<td>T6</td>
<td>2. Bell</td>
</tr>
<tr>
<td>T7</td>
<td>2.800/1000Hz @ 7Hz Sweeping</td>
</tr>
<tr>
<td>T8</td>
<td>2.2400/2900Hz @ 50Hz Sweeping</td>
</tr>
<tr>
<td>T9</td>
<td>2.420Hz @ 0.625 sec Australian Alert</td>
</tr>
<tr>
<td>T10</td>
<td>2.500-1200Hz 3.75sec /0.25sec. Australian Evac.</td>
</tr>
</tbody>
</table>