

STA3 Alarm Horn with Xenon & LED Tower

The STA3 is a customisable audio-visual signal featuring a tower of 3 AlertAlight L101 type beacons combined with a SONF1 alarm sounder.

Each beacon position can contain either a Xenon or high output L.E.D. light source. The STA3 assembly features a pre-wired junction box and cable loom enabling the end user to determine beacon type and position during installation.

Features

- SONF1 alarm sounder synchronises automatically on multi-unit systems.
- Multiple configurations of Xenon and L.E.D. beacons.
- Internal cable loom and termination PCB simplifies installation.
- Common negative/neutral supply minimises cabling.
- High output L.E.D. unit can be set to steady or flashing.
- Available with red, white or grey housing.
- Sealed to IP66.
- Tropicalisation available on request.
- Also available without SONF1 audible signal – see the STB2/3/4 data.

Approvals

- UL & cULs approved: General signalling use.
- EAC compliant: RU D-GB.AL16.B.11083



Specification

General:

| | |
|---------------------|-------------------------------------|
| Cable entries: | 2 x M20 clearance |
| Ingress Protection: | IP66 |
| Housing material: | UL94V0 & 5VA FR ABS |
| Housing colour: | RAL3000 Red, RAL7038 Grey and White |
| Lens material: | PC |
| Fixings: | Stainless Steel |
| 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] |
| STA2 Weight: | 0.95kg/2.09lbs |
| STA3 Weight: | 1.15kg/2.53lbs |
| STA4 Weight: | 1.35kg/2.97lbs |

SONF1 – Alarm 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 (UK00A / PFEER compliant) |
| No. of stages: | 2 (AC voltage variants 1 stage) |
| Volume control: | On board potentiometer |
| Effective range: | 30m/99ft @ 1KHz |
| Monitoring: | Reverse polarity diode protection on DC units. |
| Terminals: | 0.5 to 1.5mm ² cables. |

L 101X – Xenon:

| | |
|-------------------------|--|
| Energy: | 5 Joules (5Ws) |
| Flash rate: | 1Hz (60 fpm) |
| Peak Candela: | 500,000 cd – calculated from energy (J) |
| Effective Intensity cd: | 250 cd – calculated from energy (J) |
| Peak Candela: | 86,935 cd* – measured ref. to I.E.S. |
| Effective Intensity cd: | 200 cd* – measured ref. to I.E.S. |
| Terminals: | 0.5 to 4.0mm ² cables. |
| Lens colours: | Amber, Blue, Clear, Green, Opal, Red, Yellow |
| Tube life: | Emissions are reduced to 70% after 8 million flashes |

L 101H – L.E.D.:

Part Codes

| Version: | Description: | Voltage: | Part code: |
|----------|--|----------|--------------|
| STA3 | Junction box & SONF1 assy for 3 x L101 beacons | 12/24Vdc | STA3DC024[x] |
| STA3 | Junction box & SONF1 assy for 3 x L101 beacons | 115Vac | STA3AC115[x] |
| STA3 | Junction box & SONF1 assy for 3 x L101 beacons | 230Vac | STA3AC230[x] |

[x]: G=Grey, R=Red, W=White

| Version: | Description: | Voltage: | Part code: |
|----------|----------------------|-----------|------------------|
| ST-L101X | L101 Xenon Beacon 5J | 12Vdc | ST-L101XDC012[x] |
| ST-L101X | L101 Xenon Beacon 5J | 24Vdc | ST-L101XDC024[x] |
| ST-L101X | L101 Xenon Beacon 5J | 115Vac | ST-L101XAC115[x] |
| ST-L101X | L101 Xenon Beacon 5J | 230Vac | ST-L101XAC230[x] |
| ST-L101H | L101 L.E.D. Beacon | 10-30Vdc | ST-L101HDC030[x] |
| ST-L101H | L101 L.E.D. Beacon | 90-260Vac | ST-L101HAC230[x] |

[x]: A=Amber, B=Blue, C=Clear, G=Green, R=Red

Example: For a tower of A SONF1 alarm sounder plus three beacons using two Xenon beacons, one red, one amber plus one L.E.D. beacon in green using a 24Vdc supply in a red housing, order the following part codes:

STA3DC024R
ST-L101XDC024R
ST-L101XDC024A
ST-L101HDC024G

For UL approved version suffix all relevant part codes with 'UL'

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 | 1000Hz Continuous - PFEER Toxic Gas | |
| T 9 | Continuous 554Hz | |
| T 10 | 420Hz @ 0.625 sec Australian Alert | |

\4.Where applicable following tones are available on AC voltage versions:

| __Stage 1 | __Frequency Description |
|-----------|---|
| 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. |