STA4 Alarm with Xenon/LED Beacon Stack/Tower



The STA4 is a customisable audio-visual signal featuring a tower of 4 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 STA4 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
- 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 products

Approvals

- UL/cUL File ref: E216937
- CSFM listing: 7300-2279:0512
- EAC CU TR 043/2017: B.00291/21
- EAC: RU D-GB.GA05.B.12595-20
- CE. UKCA



















Specification STA: Enclosure & cable loom Assembly: Cable entries: 2 x M20 clearance Cable loom: Pre-wired with termination PCBA Terminals: 0.5 to 4.0mm² cables Ingress Protection: IP66 Type 13/3R Enclosure UL94V0 & 5VA FR ABS/PC material: Enclosure colour: RAL3000 Red, RAL7038 Grey and White Lens material: PC Stainless Steel Fixings: Operating temp: -40° to +70°C [-40° to +158°F] -40° to +70°C [-40° to +158°F] Storage temp: Relative humidity: 95% at 20°C [68°F] STA2 Weight: 0.95kg/2.09lbs STA3 Weight: 1.15kg/2.53lbs STA4 Weight: 1.35kg/2.97lbs Alarm Sounder: Type: SONF1 alarm horn 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 (AC voltage variants 1 stage) Volume control: On board potentiometer 30m @ 1KHz Effective range: Monitoring: Reverse polarity diode protection on DC units. Xenon Beacon: L 101X Xenon Strobe Beacon Type: 5 Joules (5Ws) Energy: Flash rate: 1Hz (60 fpm) Peak Candela: 500,000 cd - calculated from energy (J) Effective Intensity 250 cd - calculated from energy (J) cd: Peak Candela: 86,935 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 8 million flashes L.E.D Beacon: L101H multi-function LED Type: Light source: High intensity 18 x Cree© SMT White L.E.D. array

Function:

Peak/Effective

Intensity cd:
Lens colours:

High Power Steady

Double Flash

Temporal Flash

Triple Flash

Blinking - 425ms ON 75ms OFF

180cd - measured ref. to I.E.S.

1.0Hz (60 fpm) - 200ms ON 800ms OFF

1.33Hz (80fpm) - 150ms ON 600ms OFF

2.0Hz (120fpm) - 125ms ON 375ms OFF

Amber, Blue, Clear, Green, Magenta, Red, Yellow

| D - | 1 | 0 | - 1 | |
|-----|-----|-----|-----|----|
| Pa | rT. | 1:0 | 'n | 20 |
| | | | | |

Stack assembly:

| Part Code: | Ident.: | Description: | | |
|--------------------------------|-------------------------|--|--|--|
| Product type: STA4 | | Alarm Horn with 4 x Beacons Signal Stack / Tower | | |
| Voltage: | AC230 AC115 DC024 | 230V ac 50/60Hz 115V ac 50/60Hz 12/24V dc | | |
| Cable entries: [e] | А | 2 × 20mm clearance | | |
| Stopping plug material: [m] | А | ABS | | |
| Option: [s] | 0 | Standard configuration | | |
| Product version: [v | /]A | UL, cULs | | |
| Product option: [o |] 1 X Z | Standard product Custom configuration – contact E2S Custom alarm tone software – contact E2S | | |
| Enclosure: [x] | G R W | Grey RAL7038 Red RAL3000 White | | |

| _ | | |
|--------|-----------------|--|
| Roscon | components: | |
| Deacon | COLLIDOLICIIIS. | |

| Part Code: Product type: | | Description: L 101X Xenon Beacon 5J |
|-----------------------------|----------------------------------|--|
| Voltage: | AC230 AC115 DC024 DC012 | 230Vac +/-10% 50/60Hz 115Vac +/-10% 50/60Hz 24Vdc - 20-28Vdc 12Vdc - 10-14Vdc |
| Product version: [| v]A | UL, cULs |
| Product option: [c |)] 1 | Standard product |
| Lens colour: [y] | A B C G M R Y | Amber Blue Clear Green Magenta Red Yellow |
| Part Code: | Ident.: | Description: |
| Product type: | ST-L101H | L101H LED Beacon |
| Voltage: | AC230 DC024 DC012 | 115/230Vac 50/60Hz 16-33Vdc 10-14Vdc |
| Product version: [| v]A | UL, cULs |
| Product option: [c |)] 1 | Standard product |
| Lens colour: [y] | A B C G M R | Amber Blue Clear Green Magenta Red Yellow |

Example: For an alarm horn tower with four beacons featuring three Xenon beacons, one red, one amber, one blue plus one L.E.D. beacon in green for a 24Vdc supply in a red housing, order the following part codes:

STA4DC024AA0A1R ST-L101XDC024A1R ST-L101XDC024A1A ST-L101XDC024A1B ST-L101HDC024A1G

Current Consumption

SONF1 Alarm Horn Sounder

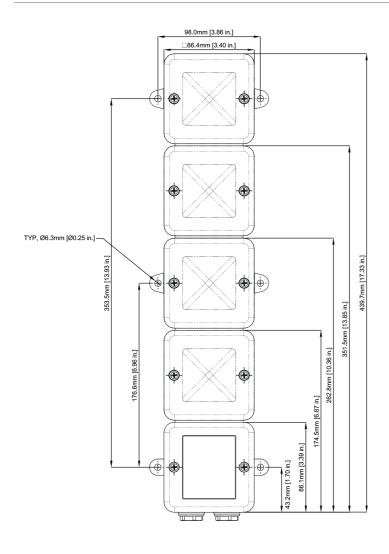
| Range: | Version: | Current: | |
|---------------|----------|----------|--|
| 10-30V | DC024 | 12mA | |
| 115Vac +/-10% | AC115 | 27mA | |
| 230Vac +/-10% | AC230 | 39mA | |

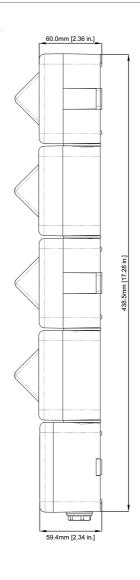
L 101X Xenon Strobe

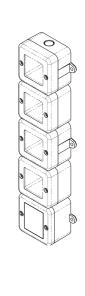
| Range: | Version: | Current: | Max Current: |
|---------------|----------|----------|------------------|
| 10-14Vdc | DC012 | 500mA | 531mA @ 14Vdc |
| 20-28Vdc | DC024 | 250mA | 27 1mA@ 20Vdc |
| 115Vac +/-10% | AC115 | 70mA | 101mA @ 126.5Vac |
| 230Vac +/-10% | AC230 | 35mA | 58mA @ 253Vac |

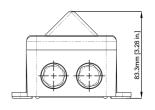
L101H LED Beacon

| Range: | Version: | Current Steady Mode: | Current 1Hz Flash: | Current 1.5Hz Flash: | Current 2Hz Flash: | Max Current: |
|-----------|----------|----------------------------------|----------------------------------|------------------------------------|----------------------------------|--------------------------------|
| 10-14Vdc | DC012 | 167.5mA | 79.5mA | 84mA | 87mA | 168mA @ 14Vdc |
| 16-33Vdc | DC024 | 178.5mA | 86.5mA | 91mA | 96mA | 183mA @ 24Vdc |
| 48-260Vac | AC230 | 85.5mA @ 115Vac 53mA @ 230Vac | 34mA @ 115Vac 18.5mA @ 230Vac | 37.5mA @ 115Vac 19.5mA @ 230Vac | 40mA @ 115Vac 23.5mA @ 230Vac | 166mA @ 48Vac 51mA @ 260Vac |









Tone table

| Proposite the re | |
|--|---|
| The state of the s | S 2 T 8 |
| | T1 |
| | T8 |
| | T 9 |
| | T 1 |
| | T8 |
| | T 10 |
| 1000Hz Continuous - PFEER Toxic Gas | |
| Continuous 554Hz | |
| 420Hz @ 0.625 sec Australian Alert | |
| Following tones applicable for AC voltage ver | |
| Frequency Description | |
| | |
| 800/1000Hz @ 0.25 sec Alternating | |
| 500/1200Hz @ 0.3Hz 0.5 sec Slow Whoop | |
| 1200/500Hz @ 1Hz - DIN / PFEER P.T.A.P. | |
| 544Hz (100mS)/440Hz (400mS) - NF S 32-001 | |
| 1000Hz Continuous - PFEER Toxic Gas | |
| Bell | |
| 800/1000Hz @ 7Hz Sweeping | |
| 2400/2900Hz @ 50Hz Sweeping | |
| 420Hz @ 0.625 sec Australian Alert | |
| 500-1200Hz 3.75sec /0.25sec. Australian Evac. | |
| | Continuous 554Hz 420Hz @ 0.625 sec Australian Alert Following tones applicable for AC voltage ver Frequency Description 800/1000Hz @ 0.25 sec Alternating 500/1200Hz @ 0.3Hz 0.5 sec Slow Whoop 1200/500Hz @ 1Hz - DIN / PFEER P.T.A.P. 544Hz (100mS)/440Hz (400mS) - NF S 32-001 1000Hz Continuous - PFEER Toxic Gas Bell 800/1000Hz @ 7Hz Sweeping 2400/2900Hz @ 50Hz Sweeping 420Hz @ 0.625 sec Australian Alert |