STA2 Alarm with Xenon/LED Beacon Stack/Tower



The STA2 is a customisable audio-visual signal featuring a tower of 2 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 STA2 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: 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 1.15kg/2.53lbs STA3 Weight: 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/99ft @ 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

L101H multi-function LED

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

High Power Steady

Double Flash

Temporal Flash

Triple Flash

High intensity 18 x Cree© SMT White L.E.D. array

L.E.D Beacon:

Light source:

Peak/Effective

Intensity cd:
Lens colours:

Function:

Type:

P	a	rt	C	ი	d	e	

Stack assembly:

Part Code:	Ident.:	Description:		
Product type:	STA2	Alarm Horn with 2 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]	A	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:	Ident.:	Description:		
Product type:	ST-L 101X	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: [a	0] 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: [a	o] 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 featuring a Xenon beacon in red plus one L.E.D. beacon in green for a 24Vdc supply in a red housing, order the following part codes:

STA2DC024AA0A1R ST-L101XDC024A1R ST-L101HDC024A1G

Current Consumption

SONF1 Alarm Horn Sounder

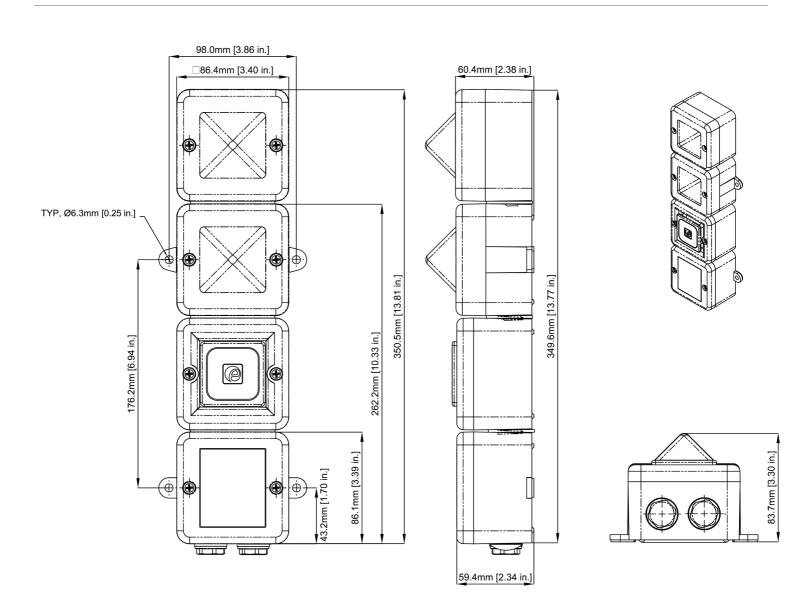
Range:	Version:	Current:
10-30V	DC024	12mA
115Vac +/-10%	AC115	27mA
230Vac +/-10%	AC230	39mA

L 101X Xenon Strobe

Range:	Version:	Current:	Max Current:
10-14Vdc	DC012	500mA	531mA @ 14Vdc
20-28Vdc	DC024	250mA	271mA@ 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