STA4 Alarm Horn with Xenon & LED 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 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 sheet (2.1.021v10a).

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 (UKOOA / PFEER compliant)
No. of stages:	2 (AC voltage variants 1 stage)
Volume control:	On board potentiometer
Effective range:	30m @ 1KHz
Monitoring:	Reverse polarity diode protection on DC units.
Terminals:	0.5 to 1.5mm² cables.
L101X - 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 4.0mm² cables.
Lens colours:	Amber, Blue, Clear, Green, Opal, Red, Yellow
Tube life:	Emissions are reduced to 70% after 8 million flashes
L101H - L.E.D:	

Part Codes

Version:	Description:	Voltage:	Part code:
STA4	Junction box & SONF1 assy for 4 x L101 beacons	12/24Vdc	STA4DC024[x]
STA4	Junction box & SONF1 assy for 4 x L101 beacons	115Vac	STA4AC115[x]
STA4	Junction box & SONF1 assy for 4 x L101 beacons	230Vac	STA4AC230[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 1	800/1000Hz @ 0.25 sec Alternating	T 8
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	

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.