

# STB3 Xenon & LED Stack/Tower

The STB3 is a customisable visual signal featuring a tower of 3 AlertAlight L101 type beacons.

Each beacon position can contain either a Xenon or high output L.E.D. light source. The STB3 assembly features a pre-wired junction box and cable loom enabling the end user to determine beacon type and position during installation.

## Features

- Multiple configurations of Xenon and LED beacons.
- Internal cable loom and termination PCB simplifies installation.
- Common negative/neutral supply minimises cabling.
- Available with red, white or grey housing.
- High output LED unit can be set to steady or flashing.
- Sealed to IP66.
- Tropicalisation available on request.
- Can be combined with SONF1 audible signal – see STA2/3/4 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

### STB:

Assembly:	Enclosure & cable loom
Cable entries:	2 x M20 clearance
Cable loom:	Pre-wired with termination PCBA
Terminals:	0.5 to 4.0mm <sup>2</sup> cables
Ingress Protection:	IP66 Type 4/4X/13/3R
Enclosure material:	UL94V0 & 5VA FR ABS/PC
Enclosure colour:	RAL3000 Red, RAL7038 Grey and White
Lens material:	PC
Fixings:	Stainless Steel
Operating temp:	-40° to +70°C [-40° to +158°F]
Storage temp:	-40° to +70°C [-40° to +158°F]
Relative humidity:	95% at 20°C [68°]
STB3 Weight:	0.85kg/1.87lbs

### Xenon Beacon:

Type:	L 101X Xenon Strobe Beacon
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.
Lens colours:	Amber, Blue, Clear, Green, Magenta, Red, Yellow
Tube life:	Emissions are reduced to 70% after 8 million flashes

### L.E.D Beacon:

Type:	L101H multi-function LED
Light source:	High intensity 18 x Cree© SMT White L.E.D. array
Function:	High Power Steady Blinking – 425ms ON 75ms OFF 1.0Hz (60 fpm) – 200ms ON 800ms OFF 1.33Hz (80fpm) – 150ms ON 600ms OFF Double Flash Triple Flash 2.0Hz (120fpm) – 125ms ON 375ms OFF Temporal Flash
Peak/Effective Intensity cd:	180cd – measured ref. to I.E.S.
Lens colours:	Amber, Blue, Clear, Green, Magenta, Red, Yellow

## Part Codes

Stack assembly:

Part Code:	Ident.:	Description:
Product type:	STB3	3 x Beacon Visual Signal Stack / Tower
Voltage:	AC DC	AC voltage beacon components DC voltage beacon components
Cable entries: [e]	A	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	Standard product Custom configuration – contact E2S
Enclosure: [x]	G R W	Grey RAL7038 Red RAL3000 White

Beacon components:

Part Code:	Ident.:	Description:
Product type:	ST-L 101X	L 101X Xenon Beacon 5J
Voltage:	AC230 AC115 DC048 DC024 DC012	230Vac +/-10% 50/60Hz 115Vac +/-10% 50/60Hz 48Vdc – 42-54Vdc 24Vdc – 20-28Vdc 12Vdc – 10-14Vdc
Product version: [v]A		UL, cULs
Product option: [o]	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-L 101H	L 101H LED Beacon
Voltage:	AC230 DC048 DC024 DC012	48-260Vac 50/60Hz 48-260Vdc 16-33Vdc 10-14Vdc
Product version: [v]A		UL, cULs
Product option: [o]	1	Standard product
Lens colour: [y]	A B C G M R Y	Amber Blue Clear Green Magenta Red Yellow

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

STB3DCAA0A1R  
ST-L 101XDC024A1R  
ST-L 101XDC024A1A  
ST-L 101HDC024A1G

## Current Consumption

L101X 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
48-260Vdc	DC048	115mA	51mA	58mA	62.5mA	115mA @ 48Vdc
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

