

# STExB2LD2 Explosion Proof LED Multi-function Beacon

The STExB2LD2 is an IECEx & ATEX approved explosion proof multi-function LED beacon. The robust IP66 corrosion proof 316L stainless steel enclosure ensures the STExB2LD2 is suitable for all Zone 1, 2, 21 & 22 explosion proof applications.

The STExB2LD2 utilises an array of high power Cree® LED's, orientated to optimise visibility in any direction. The beacon can be configured as a steady beacon for status indicator use, with a light output of up to 174 candela. Alternatively one of the five flashing modes, with a light output of up to 338 candela, may be used for warning applications. DC voltage versions feature three remotely selectable stages enabling multiple warnings to be signalled from one device. The field replaceable colour filter enhances the light output and is constructed from UV stable PC. SIL1 compliant to IEC61508 (2010) as standard. DNV type approved for exposed locations.

## Features

- Robust corrosion proof 316L stainless steel enclosure
- Ingress protection IP66
- Automatic synchronisation on multi-beacon systems
- Choice of five flash rates: 1Hz, 1.5Hz, 2Hz, double and triple flash.
- High and low power Steady modes
- Three remotely selectable stages/channels on DC versions.
- 316 Stainless Steel guard included as standard
- Field replaceable UV stable lens colour filter
- 316 Stainless steel stopping plugs included
- 4 x M20 cable entries
- Stainless steel fasteners
- Duplicate cable terminations  
(in & out for daisychain installations)
- SIL1 compliant to IEC61508 (2010)
- DNV type approved IEC 60945 & DNVGL-CG-0339

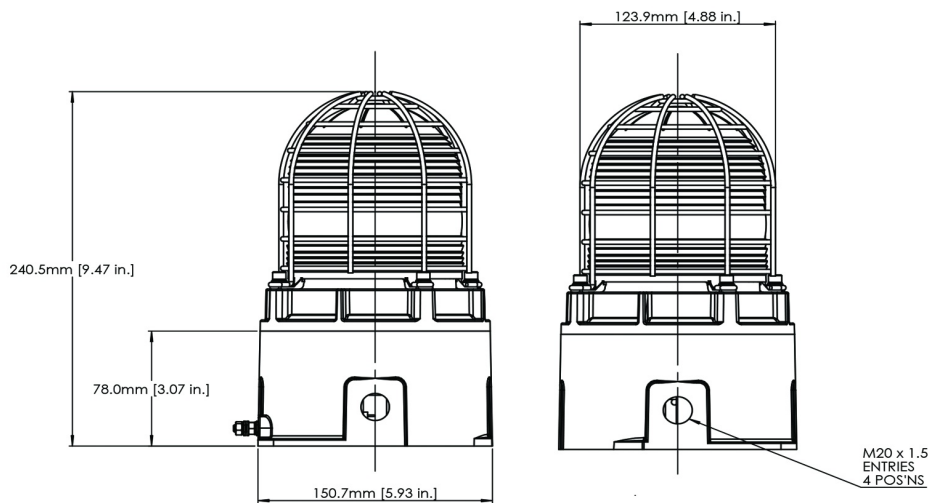
## Approvals

- IECEx ULD 16.0017X Issue 1  
IEC 60079-0 : 2011  
IEC 60079-1 : 2014  
IEC 60079-31 : 2013
- ATEX DEMKO 16 ATEX 1466X Issue 1  
EN 60079-0 : 2012 + A1 : 2013  
EN 60079-1 : 2014  
EN 60079-31 : 2014

## Coding

- Ex db IIC Gb T5 Ta -50°C to +70°C
- Ex db IIC Gb T6 Ta -50°C to +65°C
- Ex tb IIIC Db T85°C Ta -50°C to +70°C





## Specification

|                     |   |
|---------------------|---|
| Source:             | Array of 4 x High Power Cree® LED's   |
| Modes:              | 1Hz flash (60 fpm)<br>1.5Hz flash (90 fpm)<br>2Hz flash (120 fpm)<br>Double strike flash<br>Triple strike flash<br>High Power Steady<br>Low Power Steady  |
| Eff. Intensity cd:  | 174 cd - High Power Steady  |
| Eff. Intensity cd:  | 338 cd - 1Hz flash  |
| Lens colours:       | Amber, Blue, Clear, Green, Magenta, Red & Yellow  |
| Voltages DC:        | 24vdc   |
| Voltages AC:        | 115vac; 230vac  |
| Ingress protection: | IP66  |
| Enclosure matl:     | 316L Stainless Steel  |
| Enclosure finish:   | Chromated & powder coated   |
| Colour:             | RAL3000 Red   |
| Cable entries:      | 4 x M20 ISO (3 stopping plugs inc.)<br>Adaptors to M25, 1/2" & 3/4" NPT can be specified  |
| Terminals:          | 0.5 - 2.5mm <sup>2</sup> (20-14 AWG)  |
| Enclosure volume:   | <2 litres   |
| Line monitoring:    | Blocking diode included<br>EOL Min. 500 Ohm 2w, or 3k3 Ohm 0.5w resistor or diode (DC versions) can be fitted   |
| LED life:           | 60,000 hours  |
| Temperature range:  | -50° to +70°C (-58°F to +158°F)   |
| Relative humidity:  | 95% - Additional tropicalisation is recommended for applications where both high relative humidity and high ambient temperatures exist  |
| Example part code:  | STExB2LD2AC230 [e][m][s][v][x]/[y]<br>STExB2LD2AC230AS2A1R/R<br>STExB2LD2 LED Beacon, 230V ac,<br>4 x M20 entries, Stainless Steel stopping plugs,<br>A4 316 SS dome guard, IECEx & ATEX approved,<br>Red enclosure |

## Part Codes

|                                     |  |
|-------------------------------------|--|
| Version:                            | Part code:   |
| Product type:                       | STExB2   |
| Type:                               | LD2 LED Multifunction Beacon   |
| Voltage:                            | DC024 18-54V dc<br>AC115 103.5-126.5V ac<br>AC230 207-253V ac  |
| Cable Entry Type: [e]               | A 4 x M20x1.5mm<br>B 2 x 1/2" NPT - adaptors<br>C 2 x 3/4" NPT - adaptors<br>D 2 x M25x1.5mm - adaptors<br>E 1 x 1/2" NPT - adaptor<br>F 1 x 3/4" NPT - adaptor<br>G 1 x M25x1.5mm - adaptor<br>H 3 x 1/2" NPT - adaptors<br>I 3 x 3/4" NPT - adaptors<br>J 3 x M25x1.5mm - adaptors |
| Adaptor/Stopping plug material: [m] | B Brass<br>N Nickel Plated<br>S Stainless Steel (standard)   |
| Guard material & tag: [s]           | 1 A2 304 Stainless Steel<br>2 A4 316 Stainless Steel (default)<br>3 A2 304 St/St with Equip. Tag<br>4 A4 316 St/St with Equip. Tag   |
| Product version: [v]                | A1 IECEx & ATEX Group II 2G/D Zone 1, 2, 21 & 22<br>M1 IECEx & ATEX Group II 2G/D Zone 1, 2, 21 & 22 & DNV Type Approval   |
| Enclosure colour: [x]               | R Red<br>S Special (contact E2S)   |
| Lens colour: [y]                    | A Amber<br>B Blue<br>C Clear<br>G Green<br>M Magenta<br>R Red<br>Y Yellow  |
| Accessories:                        | SP65-0001-Pole Mount Bracket Kit 2" St/St A2 (304)<br>A2 Pole Mount Bracket Kit 2" St/St A4 (316)<br>SP65-0001-Sunshade - St/St A2 (304)<br>A4 Sunshade - St/St A4 (316)<br>SP65-0003-A2<br>SP65-0003-A4   |

## Current Consumption

| Version: | In | Voltage: | Steady High Power | Steady Low Power | Flashing 1Hz |
|----------|----|----------|-------------------|------------------|--------------|
|----------|----|----------|-------------------|------------------|--------------|

**E2S Warning Signals [sales@e2s.com](mailto:sales@e2s.com) [www.e2s.com](http://www.e2s.com)**

6 May 2019

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