

STExB2X15 Xenon Strobe Beacon

The STExB2X15 is an explosion proof 15 Joule Xenon beacon. The robust corrosion proof 316L stainless steel enclosure ensures suitability for all Zone 1, 2, 21 & 22 hazardous location signalling applications.

The STExB2X15 beacons produce a high output Xenon flash required for effective signalling in environments with elevated levels of ambient light. The field replaceable colour filter enhances the strobe and is constructed from UV stable PC. The stainless steel enclosure features a threaded flame path, four cable entries and a large termination area – all of which significantly reduce installation time. SIL1 & SIL2 Route 2H compliant to IEC61508 (2010) as standard, with optional diagnostic module for Route 1H SIL2 compliance. DNV type approved for exposed locations.

Features

- Four flash rates: 1Hz, 1.3Hz, 1.5Hz & double flash
- Automatic synchronisation on multi-beacon systems
- User replaceable Xenon tube secured against shock & vibration
- A4 316 Stainless Steel guard included as standard
- UV stable polycarbonate lens colour filter – field replaceable
- 4 x cable entries
- Stopping plugs included
- Robust corrosion proof 316L stainless steel enclosure
- DNV type approved IEC 60945 & DNVGL-CG-0339

Approvals

- IECEx ULD 16.0017X
- ATEX DEMKO 16 ATEX 1466X
- UKCA certificate: UL21UKEX2019X
- TR-CU Ex EAC certificate: RU C-GB.HA65.B.01252_21
- INMETRO IEx 20.0156X
- DNV type approved: TAA00001JN
- PESO CCOE certified: P622994
- SIL1 & SIL2 compliant to IEC61508 (2010)

Coding

- IECEx / ATEX
 - II 2G Ex db IIC Gb T4 Ta -50°C to +70°C (AC: +65°C)
 - II 2G Ex db IIC Gb T3 Ta -50°C to +80°C (AC: +75°C)
 - II 2D Ex tb IIIC Db T127°C Ta -50°C to +70°C (AC: T131°C)



Specification

Source:	Xenon Strobe – Single or Dual
Energy:	15 Joules (15Ws)
Flash rates:	1Hz flash (60 fpm) 1.3Hz flash (80 fpm) 1.5Hz flash (90 fpm) Double flash (120 fpm)
Eff. Intensity cd:	666.92 cd – measured ref to I.E.S
Peak Candela:	114,854 cd – measured ref to I.E.S
Eff. Intensity cd:	750 cd – calculated from energy (J)
Peak Candela:	1,500,000 cd – calculated from energy (J)
Lens colours:	Amber, Blue, Clear, Green, Magenta, Red & Yellow
Voltage DC:	24V dc (20-28Vdc), 48Vdc (42-54Vdc)
Voltage AC:	115Vac (110-120Vac), 230Vac (220-240Vac)
In-rush:	753mA within 6ms @ 24Vdc, 1958mA within 4.3ms @ 48Vdc
Safety Integrity Level:	Product version A: SIL1 and SIL2 Route 2H Product version S: SIL2 Route 1H with diagnostics SFF: >99% See install manual for reliability & functional safety data
Ingress protection:	IP rating per EN60529:IP66/67
Lens material:	High impact Borosilicate glass
Enclosure material:	316L Stainless Steel
Enclosure colour:	Red
Enclosure finish:	Chromate & powder coated finish
Cable entries:	Side: 4 x M20x1.5mm Stopping plugs included
Stopping plugs:	Stainless Steel
Terminals:	0.5 – 2.5mm ² (20-14 AWG) Duplicated terminals
Line monitoring:	Blocking diode included EOL Min. 500 Ohm 2W, or 3k3 Ohm 0.5W resistor or diode (DC versions) can be fitted
Ground/Earth stud:	M5
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Enclosure volume:	<2 litres
Installation temp:	-50° to +80°C (-58°F to +176°F)
Storage temp:	-50° to +80°C (-58°F to +176°F)
Relative humidity:	99% – tropicalised/conformal coated electronics
MTBF DC:	198.88 years / 1,742,161 hours – MIL 217
MTBF AC:	253.68 years / 2,222,223 hours – MIL 217
Weight:	6.0kg/13.23lbs

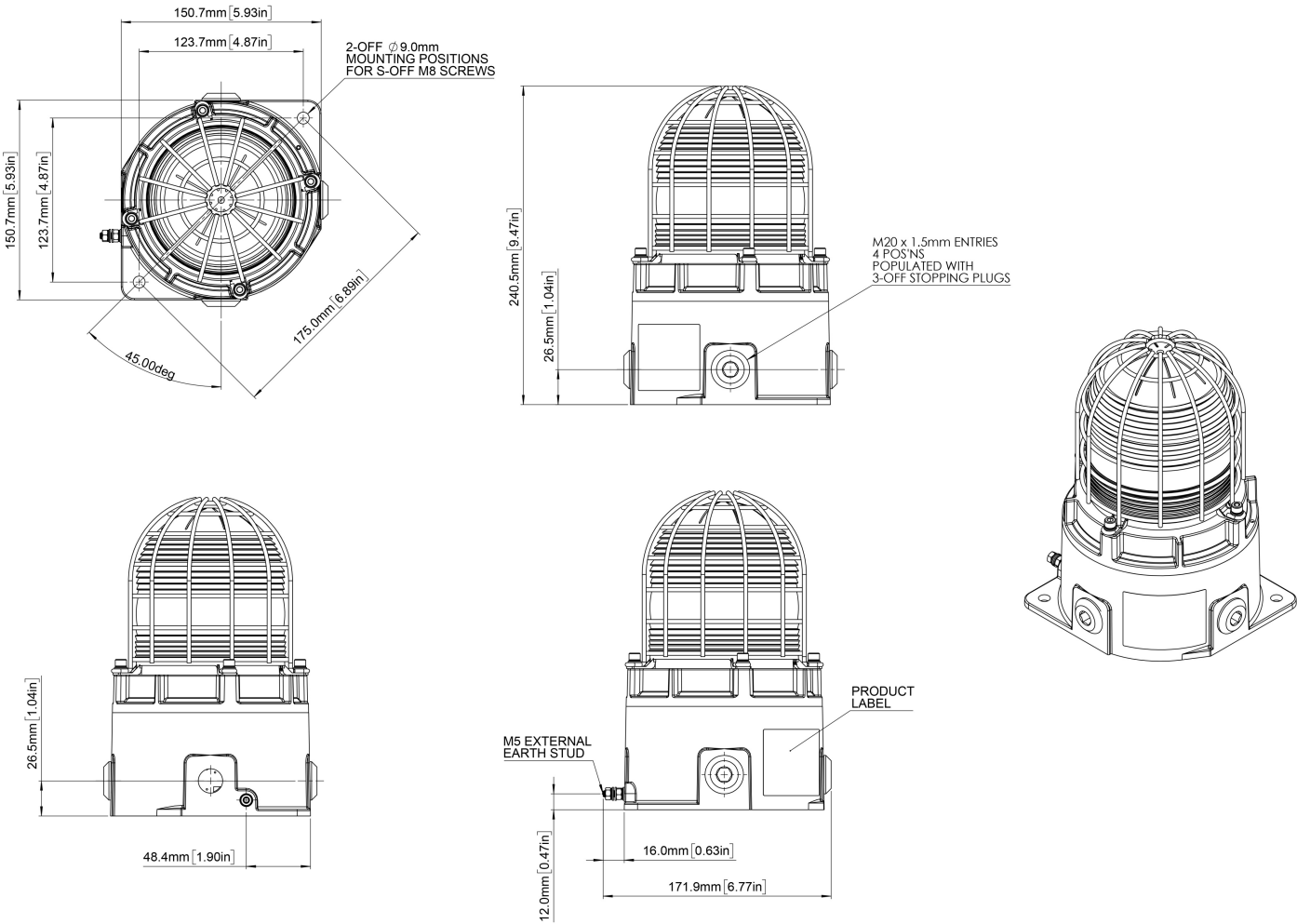
*All candela data is representative of performance with clear lens at optimum voltage.

Part Codes

Part Code:	Identifier:	Description:
Product type:	STExB2	
Type:	X15	Xenon Beacon – 15 Joule
Voltage:	DC024 DC048 AC115 AC230	24Vdc (20-28Vdc) 48Vdc (42-54Vdc) 115Vac (110-120Vac) 230Vac (220-240Vac)
Cable entries: [e]	A B C D E F G H I J	4 x M20x1.5mm 2 x 1/2" NPT – adaptors 2 x 3/4" NPT – adaptors 2 x M25x1.5mm – adaptors 1 x 1/2" NPT – adaptor 1 x 3/4" NPT – adaptor 1 x M25x1.5mm – adaptor 3 x 1/2" NPT – adaptors 3 x 3/4" NPT – adaptors 3 x M25x1.5mm – adaptors
Stopping plug/ adaptor material: [m]	S	Stainless Steel
Guard material: [s]	1 3 5	A4 316 Stainless Steel A4 316 St/St with Equip. Tag A4 316 St/St with Equip. Tag and Duty Label
Product version: [v]	A M S T U	IECEX, ATEX, Ex EAC, INMETRO SIL1 & SIL2 Route 2H IECEX, ATEX, Ex EAC, INMETRO, DNV SIL1 & 2 Route 2H IECEX, ATEX, Ex EAC, INMETRO (24Vdc only) SIL2 Route 1H with diagnostics SFF: >99% Telephone Relay Initiate IECEX, ATEX, Ex EAC, INMETRO Dual Xenon Tubes IECEX, ATEX, Ex EAC INMETRO SIL1 & SIL2 Route 2H
Product option: [o]	1 X	Standard product Custom configuration – contact E2S
Enclosure colour: [x]	R S	Red Special colour – contact E2S
Lens colour: [y]	A B C G M R Y	Amber Blue Clear Green Magenta Red Yellow
Accessories:	SP65-0001-A4 SP65-0003-A4	Pole Mount Bracket Kit St/St A4 (316) Sunshade – St/St A4 (316)

Current Consumption

Nominal Voltage:	Voltage range:	Nominal current:	Max. current:	In-rush:
24Vdc	20-28Vdc	853mA	920mA	813mA <6ms
48Vdc	42-54Vdc	330mA	360mA	1958mA <4.3ms
115Vac	110-120Vac 50/60Hz	310mA	420mA	-
230Vac	220-240Vac 50/60Hz	170mA	230mA	-



Assemblies

The STExB2X15 is available as a plated assembly configured with a STEx type alarm horn sounder and additional STEx type Xenon strobe or LED beacons with or without a STExJ2 Ex d junction box. Contact E2S for further information.