

# STExB2X10 Xenon Strobe Beacon

**The STExB2X10 is a globally approved explosion proof 10 Joule Xenon beacon. The robust corrosion proof 316L stainless steel enclosure ensures suitability for all Zone 1, 2, 21 & 22 and Class I Div 2 hazardous location signalling applications.**

The STExB2X10 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

- UL/cUL – File ref: E245313
- IECEx Certificate: IECEx ULD 16.0017X
- ATEX Certificate: 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
- SIL1 & SIL2 compliant to IEC61508 (2010)

## Coding

- IECEx / ATEX
  - II 2G Ex db IIC T4 Gb Ta -50°C to +70°C
  - II 2G Ex db IIC T5 Gb Ta -50°C to +45°C (DC only)
  - II 2D Ex tb IIIC T118°C Db Ta -50°C to +70°C (AC: T128°C)
- NEC Class / Zone
  - Class I Zone 1 AEx db IIC T4 Ta -50°C to +70°C
  - Class I Zone 1 AEx db IIC T5 Ta -50°C to +45°C (DC only)
- CEC Class / Zone
  - Ex db IIC T4 Ta -50°C to +70°C
  - Ex db IIC T5 Ta -50°C to +45°C (DC only)
- NEC / CEC Class / Div
  - Class I Div 2 Group ABCD T4 Ta -50°C to +70°C
  - Class I Div 2 Group ABCD T5 Ta -50°C to +45°C (DC only)



## Specification

Source:	Xenon Strobe
Energy:	10 Joules (10Ws)
Flash rates:	1Hz flash (60 fpm) 1.3Hz flash (80 fpm) 1.5Hz flash (90 fpm) Double flash (120 fpm)
Eff. Intensity cd:	479.39 cd – measured ref to I.E.S
Peak Candela:	110,243 cd – measured ref to I.E.S
Eff. Intensity cd:	500 cd – calculated from energy (J)
Peak Candela:	1,000,000 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:	813mA within 6ms @ 24Vdc
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 Type rating per UL50E/NEMA250:4/4X/3R/13
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 <sup>2</sup> (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
Line monitoring:	Blocking diode included EOL Min. 500 Ohm 2w, or 3k3 Ohm 0.5w resistor or diode (DC versions) can be fitted
Enclosure volume:	<2 litres
Installation temp:	-50° to +70°C (-58°F to +158°F)
Storage temp:	-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
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

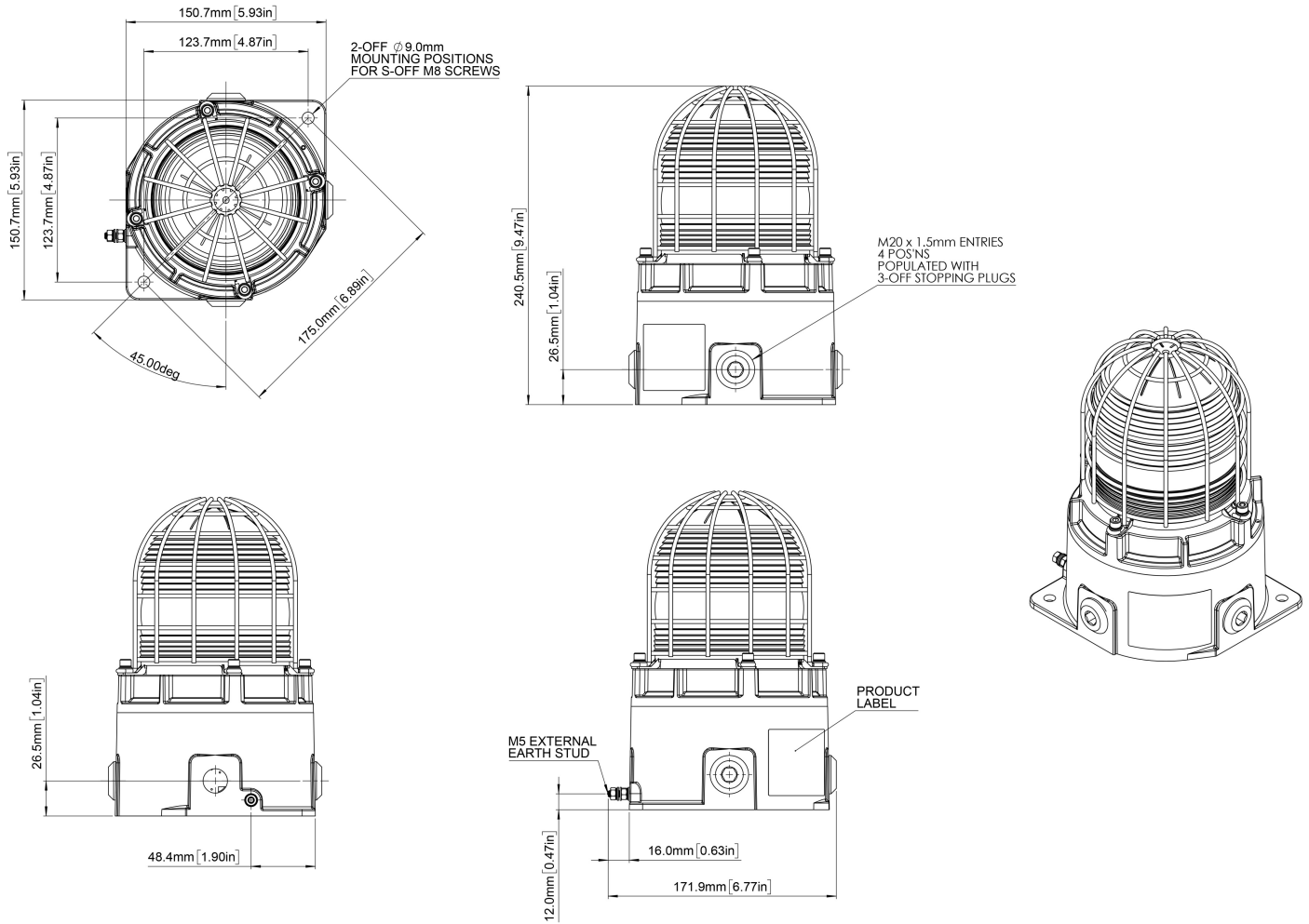
\*All candela data is representative of performance with clear lens at optimum voltage.

## Part Codes

Part Code:	Identifier:	Description:
Product type:	STExB2	
Type:	X10	Xenon Beacon – 10 Joule
Voltage:	DC024	24Vdc (20-28Vdc)
	DC048	48Vdc (42-54Vdc)
	AC115	115Vac (110-120Vac)
	AC230	230Vac (220-240Vac)
Cable entries:[e]	A	4 x M20x1.5mm
	B	2 x 1/2" NPT – adaptors
	C	2 x 3/4" NPT – adaptors
	D	2 x M25x1.5mm – adaptors
	E	1 x 1/2" NPT – adaptor
	F	1 x 3/4" NPT – adaptor
	G	1 x M25x1.5mm – adaptor
	H	3 x 1/2" NPT – adaptors
	I	3 x 3/4" NPT – adaptors
	J	3 x M25x1.5mm – adaptors
Stopping plug/ adaptor material: [m]	S	Stainless Steel
Guard material: [s]	1	A4 316 Stainless Steel
	3	A4 316 St/St with Equip. Tag
Product version: [v]	A	UL, cUL, IECEx, ATEX, Ex EAC, INMETRO – SIL1 & SIL2 Route 2H
	M	IECEx, ATEX, Ex EAC, INMETRO, DNV – SIL1 & 2 Route 2H
	S	UL, cUL, IECEx, ATEX, Ex EAC, INMETRO – (24Vdc only) – SIL2 Route 1H with diagnostics SFF: >99%
Product option: [o]	1	Standard product
	T	Tropicalisation
	X	Custom configuration – contact E2S
Enclosure colour: [x]	R	Red
	S	Special – contact E2S for alternative enclosure colours
Lens colour: [y]	A, B, C	Amber, Blue, Clear
	G, M, R	Green, Magenta, Red
	Y	Yellow
Accessories:		
SP65-0001-A4		Pole Mount Bracket Kit 2" St/St A4 (316)
SP65-0003-A4		Sunshade – St/St A4 (316)

## Current Consumption

Nominal Voltage:	Voltage range:	Nominal current:	Max. current:	In-rush:
24Vdc	20-28Vdc	605mA	710mA	813mA <6ms
48Vdc	42-54Vdc	230mA	250mA	-
115Vac	110-120Vac 50/60Hz	220mA	300mA	-
230Vac	220-240Vac 50/60Hz	130mA	180mA	-



## Assemblies

The STExB2X10 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.