STExB2X05 Xenon Strobe Beacon



The STExB2X05 is a globally approved explosion proof 5 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 STExB2X05 beacons produce a high output Xenon flash required for effective signalling in environments with elevated levels of ambient light. The optically enhanced field replaceable colour filter optimises the strobe output 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.

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
- UL Marine approved

Approvals

• UL/cUL - File ref: E245313

• IECEx Certificate: IECEx ULD 16.0017X

ATEX Certificate: DEMKO 16 ATEX 1466X

UKCA certificate: UL21UKEX2019X

• PESO CCOE certified: P622994

SIL1 & SIL2 compliant to IEC61508 (2010)

Coding

• IECEx / ATEX

II 2G Ex db IIC T6 Gb Ta -50°C to +55°C (AC: +40°C)

II 2G Ex db IIC T5 Gb Ta -50°C to +70°C (AC: +55°C)

II 2G Ex db IIC T4 Gb Ta -50°C to +85°C

II 2D Ex tb IIIC T89°C Db Ta -50°C to +70°C (AC: T110°C)

• NEC Class / Zone

Class I Zone 1 AEx db IIC T5 Ta -50°C to +70°C (AC: +55°C) Class I Zone 1 AEx db IIC T6 Ta -50°C to +55°C (AC: +40°C)

• CEC Class / Zone

Ex db IIC T5 Ta -50°C to +70°C (AC: +55°C)

Ex db IIC T6 Ta -50°C to +55°C (AC: +40°C)

• NEC / CEC Class / Div

Class I Div 2 Group ABCD T5 Ta -50°C to +70°C (AC: +55°C)

Class I Div 2 Group ABCD T6 Ta -50°C to +55°C (AC: +40°C)

























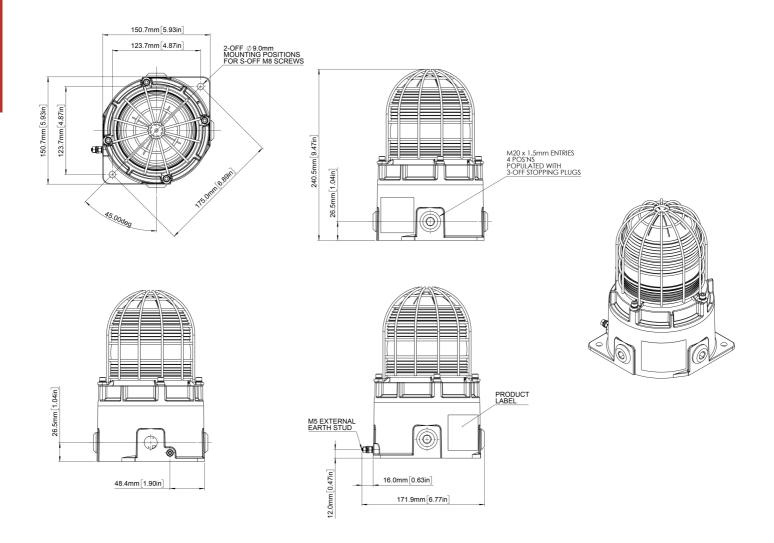
Specification				
Source:	Xenon Strobe			
Energy:	5 Joules (5Ws)			
Flash rates:	1Hz flash (60 fpm) 1.3Hz flash (80 fpm) 1.5Hz flash (90 fpm) Double flash (120 fpm)			
Eff. Intensity cd:	134.35cd measured ref to I.E.S			
Peak Candela:	30,451 cd – measured ref to I.E.S			
Eff. Intensity cd:	250 cd – calculated from energy (J)			
Peak Intensity cd:	500,000 cd – calculated from energy (J)			
Lens colours:	Amber, Blue, Clear, Green, Magenta, Red & Yellow			
Voltage DC:	12Vdc (10-14Vdc), 24V dc (20-28Vdc), 48Vdc (42-54Vdc)			
Voltage AC:	115Vac (110-120Vac), 230Vac (220-240Vac)			
In-rush:	828mA 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 ISO 12944-6 CX, C5VH & C5H			
Cable entries:	Side: 4 x M20x1.5mm Stopping plugs included			
Stopping plugs:	Stainless Steel			
Terminals:	0.5 – 2.5mm² (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 +85°C (-58°F to +185°F)			
Storage temp:	-50° to +85°C (-58°F to +185°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: Product type:	Identifier STExB2	: Description:			
Type:	X05	Xenon Strobe Beacon 5 Joule			
Voltage:	DC012 DC024 DC048 AC115 AC230	12Vdc (10-14Vdc) 24Vdc (20-28Vdc) 48Vdc (42-54Vdc) 115Vac (110-120Vac) 230Vac (220-240Vac)			
Cable entries: [e]	A B C D E F G H I	4 x M20x1.5mm 2 × 1/2" NPT - adaptors 2 × 3/4" NPT - adaptors 2 x M25x1.5mm - adaptors 1 × 1/2" NPT - adaptor 1 × 3/4" NPT - adaptor 1 x M25x1.5mm - adaptor 3 × 1/2" NPT - adaptor 3 × 1/2" NPT - adaptors 3 × 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 S T	UL, cUL, IECEx, ATEX, DNV, INMETRO SIL1 & SIL2 Route 2H UL, cUL, IECEx, ATEX, INMETRO (24Vdc only) SIL2 Route 1H with diagnostics SFF: >99% IECEx, ATEX, INMETRO - Telephone/Relay Initiate			
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		Bracket Kit St/St A4 (316) St/St A4 (316)			

Current Consumption

Nominal Voltage:	Voltage range:	Nominal current:	Max. current:	In-rush:
12Vdc	12-14Vdc	585mA	600mA	-
24Vdc	20-28Vdc	295mA	350mA	828mA <6ms
48Vdc	42-54Vdc	145mA	150mA	-
115Vac	110-120Vac 50/60Hz	140mA	200mA	-
230Vac	220-240Vac 50/60Hz	70mA	100mA	-



Assemblies

The STExB2X05 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 D1xJ2 Ex d junction box. Contact E2S for further information.