GNExB2X21 Xenon Strobe Beacon



The GNExB2X21 is an IECEx & ATEX approved explosion proof 21 Joule Xenon beacon. The robust corrosion proof GRP enclosure and extended temperature range ensures suitability for all Zone 1, 2, 21 & 22 hazardous location applications.

The GNExB2X21 beacon produces over 900cd effective – a very high output Xenon strobe flash as required for efficient 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 GRP enclosure features a threaded flame path, triple cable entries and a large termination area - all of which significantly reduce installation time. SIL1 & SIL2 Route 2H compliant to IEC61508 (2010) as standard.

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
- 3 x cable entries
- Stopping plugs included
- Robust corrosion proof GRP (glass reinforced polyester) enclosure

Approvals

- IECEx UL 15.0003X
- ATEX DEMKO 15ATEX1448X
- TR-CU Ex EAC certificate: RU C-GB.HA65.B.01252_21
- PESO CCOE certified: P452946 & P471510
- INMETRO IEx 20.0049X
- SIL1 & SIL2 compliant to IEC61508 (2010)

Coding

IECEx / ATEX

II 2G Ex db IIC Gb T4 Ta -50°C to +65°C (AC: +55°C)

II 2G Ex db IIC Gb T3 Ta -50°C to +70°C (AC: +65°C)

II 2D Ex tb IIIC Db T135°C Ta -50°C to +70°C (AC: T138°C)

















voltage.

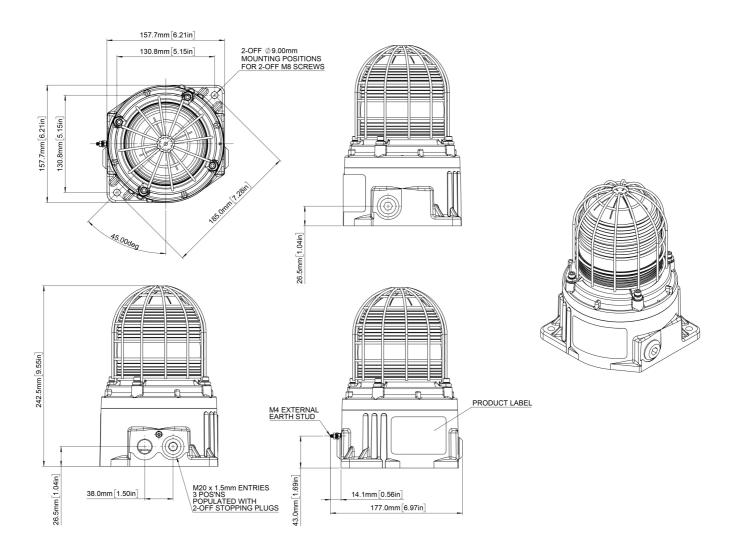
Xenon Strobe 21 Joules (21Ws) 1Hz flash (60 fpm) 1.3Hz flash (80 fpm) 1.5Hz flash (90 fpm) Double flash (120 fpm)
1Hz flash (60 fpm) 1.3Hz flash (80 fpm) 1.5Hz flash (90 fpm)
1.3Hz flash (80 fpm) 1.5Hz flash (90 fpm)
Double Hash (120 lpH)
1,115.57 cd - measured ref to I.E.S
252,852 cd - measured ref to I.E.S
1,050 cd - calculated from energy (J)
2,100,000 cd – calculated from energy (J)
Amber, Blue, Clear, Green, Magenta, Red & Yellow
24V dc (20-28Vdc), 48Vdc (42-54Vdc)
115Vac (110-120Vac), 230Vac (220-240Vac)
1508mA within 5ms @ 24Vdc
SIL1 and SIL2 Route 2H IEC61508 (2010)
IP rating per EN60529:1P66/67
High impact Borosilicate glass
UV stable GRP (glass reinforced polyester)
Natural Red
Natural – can be painted in alternative colours
Side: 3 x M20x1.5mm Stopping plugs included
Brass, Nickel Plated or Stainless Steel
0.5 - 2.5mm² (20-14 AWG) Duplicated terminals
Blocking diode included EOL Min. 500 Ohm 2W, or 3k3 Ohm 0.5W resistor or diode (DC versions) can be fitted
M4
Blocking diode included EOL Min. 500 Ohm 2w, or 3k3 Ohm 0.5w resistor or diode (DC versions) can be fitted
<2 litres
-50° to +70°C (-58°F to +158°F)
-50° to +70°C (-58°F to +158°F)
95% – Additional tropicalisation is recommended for applications where both high relative humidity and high ambient temperatures exist
155.52 years / 1,362,398 hours - MIL 217
246.02 years / 2,155,173 hours - MIL 217
3.5kg/7.7lbs

Part Codes

Part Code: Product type:	Identifier GNExB2	: Description:		
Туре:	X21	Xenon Beacon – 21 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	3 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 3 x M25x1.5mm - adaptors		
Stopping plug/ adaptor material: [m]	B N S	Brass Nickel plated brass 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	IECEX, ATEX, EX EAC, PESO, INMETRO - SIL1 & SIL2		
Product option: [o]	1 T X	Standard product Tropicalisation Custom configuration – contact E2S		
Enclosure colour: [x]	R S	Red Special – contact E2S for alternative enclosure colours		
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 2" St/St A4 (316) St/St A4 (316)		

Current Consumption

Nominal Voltage:	Voltage range:	Nominal current:	Max. current:	In-rush:
24Vdc	20-28Vdc	1130mA	1240mA	1508mA <6ms
48Vdc	42-54Vdc	530mA	560mA	2110mA <4ms
115Vac	110-120Vac 50/60Hz	500mA	530mA	-
230Vac	220-240Vac 50/60Hz	195mA	270mA	-



Assemblies

The GNExB2X21 is available as a plated assembly configured with a GNEx type alarm horn sounder and additional GNEx type Xenon strobe or LED beacons with or without a GNExJ2 Ex d junction box. Contact E2S for further information.