

GNExB1X05 Xenon Strobe Beacon

The GNExB1X05 is an IECEx & ATEX approved explosion proof 5 Joule Xenon beacon. The robust IP66 corrosion proof GRP enclosure and extended temperature range ensures suitability for all Zone 1, 2, 21 & 22 hazardous location applications.

The GNExB1X05 beacon produces over 117cd effective – a high output Xenon strobe flash required for safety signalling. The field replaceable colour filter enhances the strobe and is constructed from UV stable PC. The GRP enclosure features a threaded flame path, dual 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

- Robust, corrosion proof GRP (glass reinforced polyester) enclosure
- Ingress protection IP66
- Automatic synchronisation on multi-beacon systems
- DC voltage versions feature a choice of three flash rates
- DC voltage units feature remote initiation of flash rate
- User replaceable Xenon tube mechanically secured against shock & vibration
- Glass lens & Stainless Steel guard
- UV stable PC field replaceable lens colour filter
- Stainless steel fixings
- Dual cable entries
- Duplicate cable terminations (in & out for daisychain installations)
- SIL1 compliant to IEC61508 (2010)

Approvals

- IECEx UL 15.0003X
- ATEX DEMKO 15ATEX1448X
- TR-CU Ex EAC certificate: RU C-GB.HA65.B.01252_21
- PESO CCOE certified: P579164
- INMETRO IEx 20.0049X
- SIL1 & SIL2 compliant to IEC61508 (2010)

Coding

- II 2G Ex db IIC Gb T6 Ta -50°C to +40°C
- II 2G Ex db IIC Gb T5 Ta -50°C to +55°C
- II 2G Ex db IIC Gb T4 Ta -50°C to +70°C
- II 2D Ex tb IIIC Db T110°C Ta -50°C to +70°C



Specification

| | |
|-------------------------|--|
| Energy: | 5 Joules (5Ws) |
| Flash rate: | DC voltages: 1Hz (60fpm), 1.5Hz (90fpm) & double flash AC voltages: 1Hz (60fpm) |
| Alarm Stages: | DC units – 2 Double strike pattern can be remotely switched |
| Peak Candela: | 500,000 cd – calculated from energy (J) |
| Eff. Intensity cd: | 250 cd – calculated from energy (J) |
| Peak Candela: | 45,449 cd – measured ref to I.E.S |
| Eff. Intensity cd: | 117.93 cd – measured ref to I.E.S |
| Lens colours: | Amber, Blue, Clear, Green, Magenta, Red & Yellow |
| Voltages DC: | 12Vdc; 24vdc; 48Vdc |
| Voltages AC: | 115Vac; 230Vac |
| Safety Integrity Level: | SIL1 and SIL2 Route 2H IEC61508 (2010) |
| Ingress protection: | IP66/67 |
| Enclosure matl: | UV stable GRP (glass reinforced polyester) |
| Colour: | Natural Red – can be provided in alternative colours |
| Cable entries: | 2 x M20 ISO (1 stopping plug inc.) Adaptors to M25, 1/2" & 3/4" NPT can be specified |
| Terminals: | 0.5 – 2.5mm ² (20-14 AWG) |
| Enclosure volume: | <2 litres |
| Line monitoring: | Blocking diode included EOL Min. 500 Ohm 2w, or 3k3 Ohm 0.5w resistor or diode (DC versions) can be fitted |
| Tube life: | Emissions reduced to 70% after 5 million flashes |
| 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 |
| Weight: | 1.5kg/3.3lbs |

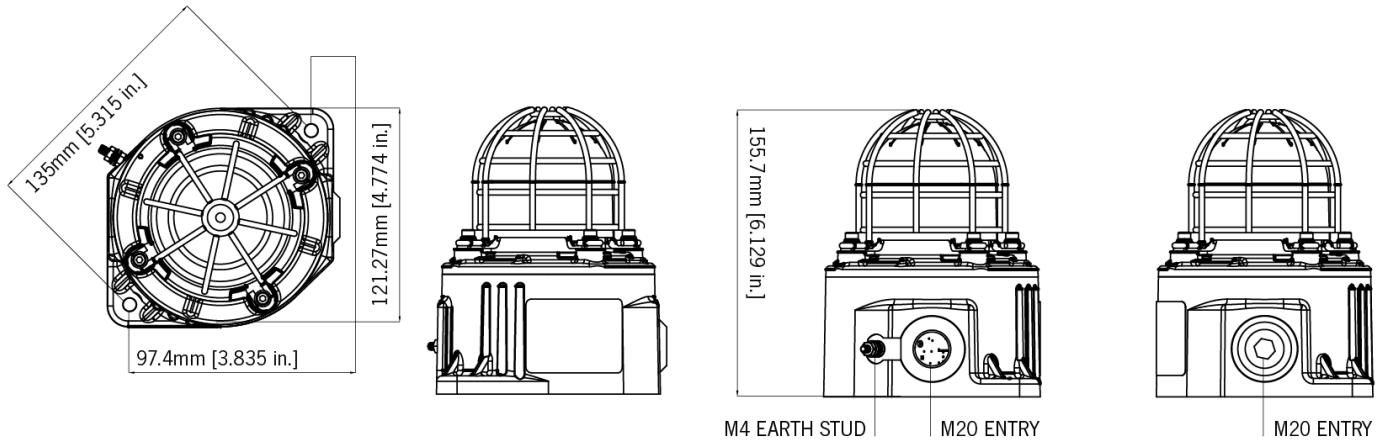
*All candela data is representative of performance with clear lens at optimum voltage.

Part Codes

| Part Code: | Identifier: | Description: |
|---------------------------|--------------|--|
| Product type: | GNExB1 | |
| Type: | X05 | Xenon Strobe Beacon 5 Joule |
| Voltage: | DC012 | 10-14Vdc |
| | DC024 | 20-28Vdc |
| | DC048 | 42-54Vdc |
| | AC115 | 110-125Vac |
| | AC230 | 220-240Vac |
| Cable entries:[e] | A | 2 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 |
| Stopping plug | B | Brass |
| adaptor material: | N | Nickel Plated |
| [m] | S | Stainless Steel |
| Guard material & tag: [s] | 1 | A4 316 Stainless Steel |
| | 3 | A4 316 St/St with Equip. Tag |
| Product version: [v] | A | IECEX, ATEX, Ex EAC, PESO, INMETRO – SIL1 & SIL2 |
| Product option: [o] | 1 | Standard product |
| | X | Custom configuration – contact E2S |
| Enclosure colour: [x] | R | Red |
| | S | Special colour – contact E2S |
| Lens colour: [y] | A | Amber |
| | B | Blue |
| | C | Clear |
| | G | Green |
| | M | Magenta |
| | R | Red |
| | Y | Yellow |
| Accessories: | SP65-0001-A4 | Pole Mount Bracket Kit St/St A4 (316) |
| | SP65-0002-A4 | Sunshade – St/St A4 (316) |

Current Consumption

| Version: | In Rush: | Voltage: | Current: |
|----------|---------------------|-----------|----------|
| 12V dc | | 10-14V dc | 437mA |
| 24V dc | 1.09A 5ms | 20-28V dc | 254mA |
| 48V dc | | 42-54V dc | 158mA |
| 115V ac | 110-125V ac 50/60Hz | 95mA | |
| 230V ac | 220-240V ac 50/60Hz | 54mA | |



Assemblies

The GNExB1X05 is available as a plated assembly configured with up to 4 xenon strobe beacons with or without a GNExJ2 Ex d junction box. Contact E2S for further information.