

GNExB2X15 Xenon Strobe Beacon

The GNExB2X15 is an IECEx & ATEX approved explosion proof 15 Joule Xenon beacon. The robust corrosion proof GRP enclosure and extended temperature range ensures suitability for all Zone 1, 2, 21 & 22 hazardous location signalling applications.

The GNExB2X15 beacon produces over 666cd effective – a very high output Xenon strobe flash as required for efficient signalling over greater distances and in high ambient light. The optically enhanced field replaceable colour filter enhances the strobe 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, 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
- 3 x cable entries
- Stopping plugs included
- Robust corrosion proof GRP (glass reinforced polyester) enclosure

Approvals

- IECEx UL 15.0003X
- ATEX DEMKO 15ATEX1448X
- UKCA certificate: UL21UKEX2136X
- 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

- IECEx / ATEX
 - II 2G Ex db IIC Gb T4 Ta -50°C to +70°C (AC: +65°C)
 - II 2D Ex tb IIIC Db T125°C Ta -50°C to +70°C (AC: T134°C)



Specification

| | |
|-------------------------|---|
| Source: | Xenon Strobe |
| 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: | UV stable GRP (glass reinforced polyester) |
| Enclosure colour: | Natural Red |
| Enclosure finish: | Natural – can be painted in alternative colours |
| Cable entries: | Side: 3 x M20x1.5mm Stopping plugs included |
| Stopping plugs: | Brass, Nickel Plated or 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: | M4 |
| 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: | 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: | 3.5kg/7.7lbs |

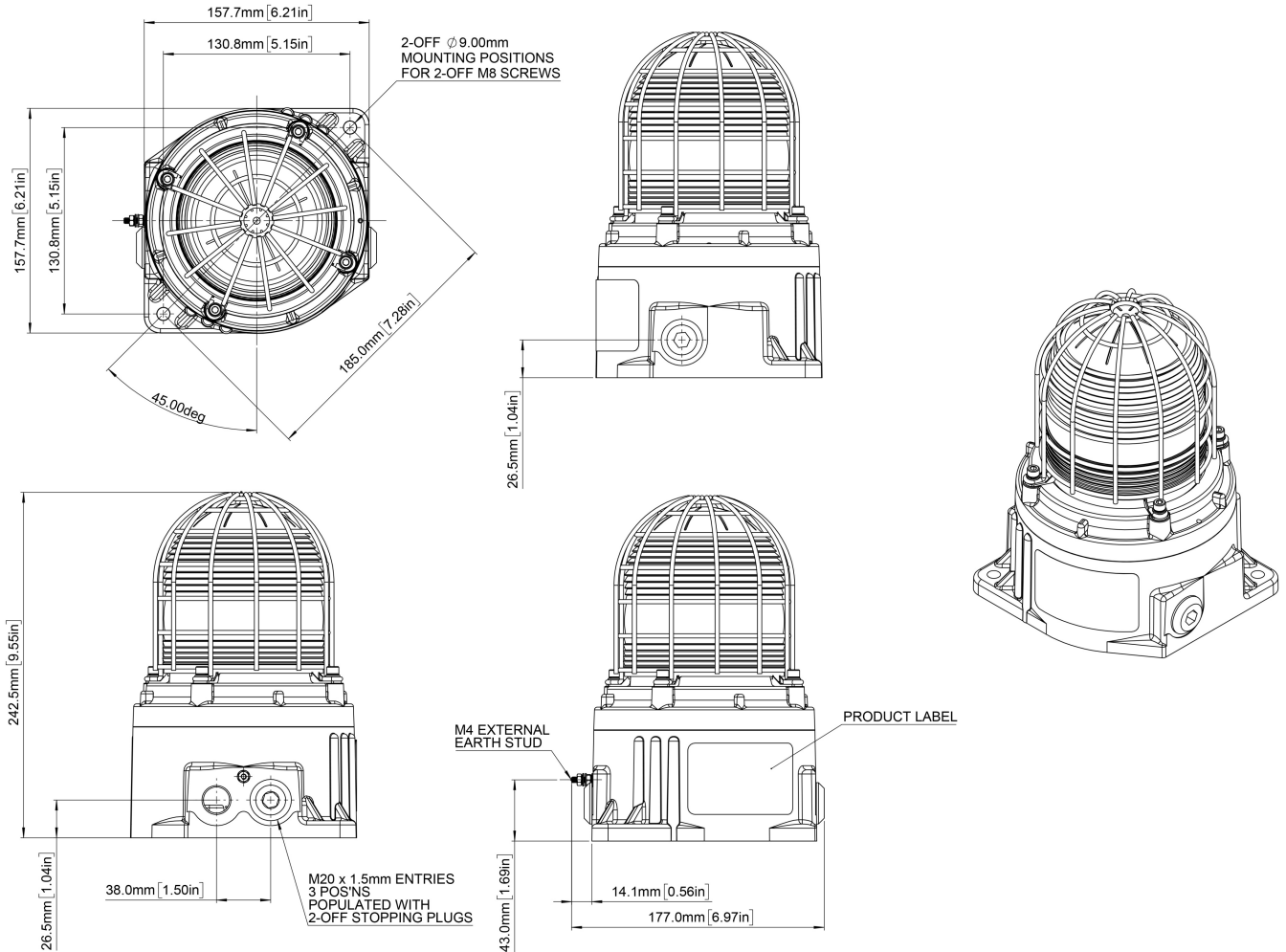
*All candela data is representative of performance with clear lens at optimum voltage.

Part Codes

| Part Code: | Identifier: | Description: |
|---|--|--|
| Product type: | GNExB2 | |
| 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 | 3 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] | 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 S | IECEX, ATEX, Ex EAC, PESO, INMETRO – SIL1 & SIL2 Route 2H IECEX, ATEX, Ex EAC, PESO, INMETRO (24Vdc only) – SIL2 Route 1H with diagnostics SFF: >99% |
| 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 | 753mA <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 GNExB2X15 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.