# XB12 21 joule xenon beacons range

## Ex d, weatherproof



## Overview

These high output certified beacons have been designed for use in potentially explosive atmospheres and harsh environmental conditions.

The enclosures are suitable for use offshore or onshore, where lightweight combined with corrosion resistance is required.

The beacon housing is manufactured completely from a UV stable, glass reinforced polyester.

Stainless steel screws and mounting bracket are incorporated ensuring a totally corrosion free product.

Units can be painted to customer specification and supplied with identification labels.

## Features

- Zone 1 and Zone 2 use
- Ex d IIB T4/ T5/T6
- ATEX approved, Ex II 2G
- BASEEFA certified
- UL certified for USA and Canada
  - Hazardous locations:
    - Class I, Div 2, Groups C & D
    - Class I, Zone 1 & 2, AExd IIB T4
  - Ordinary locations: visual-signal device
  - Marine listed
- IECEx certified Gb
- PESO certified
- High output (21 Joules)
- IP66 and IP67
- Certified temperature: –55°C to +70°C
- Corrosion resistant GRP
- Optional stainless steel backstrap
- Various lens colours
- Optional lens guard
- Optional telephone initiation
- Twin replaceable tubes

ATEX IECEx cULus INMETRO

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Powering Business Worldwide

All specifications, dimensions, weights and tolerances are nominal (typical) and Eaton reserve the right to vary all data without prior notice.
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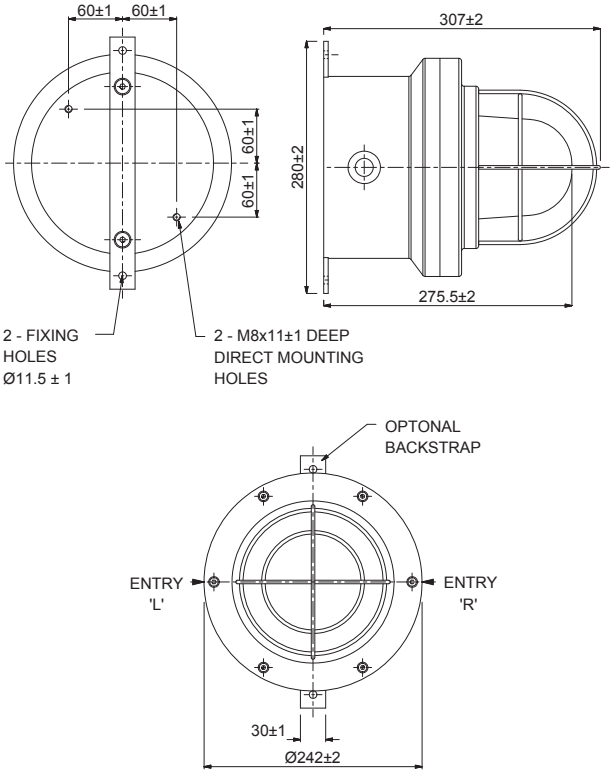
## Certifications

| | |
|---|---|
| **ATEX Ex d** | Cert. no. BAS99ATEX2196<br>Certified to: EN60079-0, EN60079-1<br>Ex II 2G, Ex d IIB T4/T5/T6 Gb |
| **IECEx Ex d** | Cert. no. IECEx BAS 10.0094.<br>Certified to: IEC60079-0, IEC60079-1<br>Ex d IIB T4/T5/T6 Gb |
| **UL Haz Locs** | Cert. no. E187894.<br>Class I, Div 2, Groups C & D.<br>Class I, Zones 1 & 2, AExd IIB T4 |
| **UL Ord Locs** | Cert no. S8128. Visual Signal Device |

## Specifications

| | |
|---|---|
| **Material** | Body: glass reinforced polyester<br>Lens: toughened glass<br>Cover screws + backstrap: stainless steel 316 |
| **Finish** | Natural black or painted to customer specification |
| **Weight** | 7.0kg |
| **Certified temp** | Exd -55°C to +70°C (T4)<br>-55°C to +55°C (T5)<br>-55°C to +40°C (T6)<br>UL -55°C to +70°C (hazardous locations)<br>-55°C to +55°C (ordinary locations) |
| **Ingress protection** | IP66 & IP67 |
| **Fire retardancy** | GRP is fire retardant to ISO 1210 |
| **Earth continuity** | Optional for metal glands provided via a brass plate<br>(not available in UL version) |
| **Terminals** | 6 x 6.0mm$^2$ (10AWG UL) |
| **Telephone initiation** | Initiation by telephone ringing tone |
| **Labels** | Duty/tag label optional |
| **Entries** | 2 x M20 Ex d<br>2 x 1/2" NPT UL |
| **Tube life** | >1x10$^6$ flashes |

## General arrangement drawing (all dimensions in mm)




**Electrical ratings**

| | d.c. | a.c. 50/60Hz | |
|---|---|---|---|
| **Voltage** | 24 | 110 | 240 |
| XB12 tube energy (Joules) | 21 | 21 | 21 |
| Current (mA) | 1400 | 350 | 185 |
| Effective intensity (Cd) | 355 | 355 | 355 |
| Peak intensity (Cd) | 123691 | 123691 | 123691 |
| Power consumption (W) | 33.6 | 38.5 | 44.4 |

Note: The Cd figures are for a clear lens @ 1Hz flash rate

**Multiplying factor for coloured lenses**

| Red | Blue | Amber | Green | Yellow |
|---|---|---|---|---|
| 0.15 | 0.12 | 0.51 | 0.49 | 0.86 |

The photometric data has been verified by BSI. A report is available if required

# Ordering requirements

The following code is designed to help in selection of the correct unit. Build up the reference number by inserting the code for each component into the appropriate box

| Model | Certification | Voltage | Flashrate | Lens colour | Lens guard | Fixings | Earth continuity | Tag/duty | Unit options | Finish |
|---|---|---|---|---|---|---|---|---|---|---|
| XB12 | | | | | | | | | | |

| Certification | Code |
|---|---|
| Uncertified | W |
| ATEX | B |
| IECEx | J |
| UL | UL |
| UL(ordinary locations) | UW |
| UL Marine | UM |

| Fpm | Code |
|---|---|
| 60/min | 06 |

Other flash rates available, please specify

| Guard | Code |
|---|---|
| None | N |
| Yes | Y |

| Continuity | Code |
|---|---|
| None | N |
| Yes | Y* |

*Earth continuity not available in UL version

| Option | Code |
|---|---|
| None | N |
| Blanking plug | P |
| Telephone | T* |

*Telephone option not available in UL version

| Voltage | Code |
|---|---|
| 24V d.c. | 024 |
| 110V a.c. | 110 |
| 240V a.c. | 240 |

Other voltage available, please specify

| Colour | Code |
|---|---|
| Clear | C |
| Red | R |
| Blue | B |
| Green | G |
| Yellow | Y |
| Amber | A |

| Fixing | Code |
|---|---|
| Direct mount without backstrap | D |
| Direct mount with backstrap | B |

| Label | Code |
|---|---|
| None | N |
| Yes | Y* |

*Please specify

| Colour | Code |
|---|---|
| Natural black | N |
| Red | R |
| Blue | B |
| Yellow | Y |
| Grey | G |
| White | W |
| Special | S* |

*Please specify