# XB15M range 5, 10 & 15 joule xenon beacons

## Ex d, weatherproof

## Overview

These 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 light weight combined with corrosion resistance is required.

The housings are manufactured from 316 stainless steel or LM25 marine grade aluminum. Stainless steel screws and mounting bracket are incorporated ensuring a totally corrosion-free product.

The model XB15M contains a supervisory diode and four wire lead connections for alarm applications. Units can be painted to customer specification and supplied with identification labels.

As well as the standard worldwide certificates, SIL2 is available.

## Features

- Zones 1, 2, 21 & 22
- Exd IIC, T4/T5/T6
- ATEX certified, Ex II 2GD
- IECEx certified Gb, Db
- IP66 & 67
- SIL 2 certified
- Certified temperature from –55°C to +85°C
- 5, 10 & 15J versions available
- Pipe mount or direct mount enclosure
- 316L stainless steel or LM25 aluminum
- Four wire and supervisory diode
- Removable stainless steel backstrap
- Swappable coloured lens covers
- Optional relay or telephone initiate
- Customer removable wire lens guard
- Up to 3 x M20 or 3 x M25 entries
- Low inrush current characteristics
- Consistent extreme temperature start-up
- Automatic synchronization option

ATEX IECEx

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Powering Business Worldwide

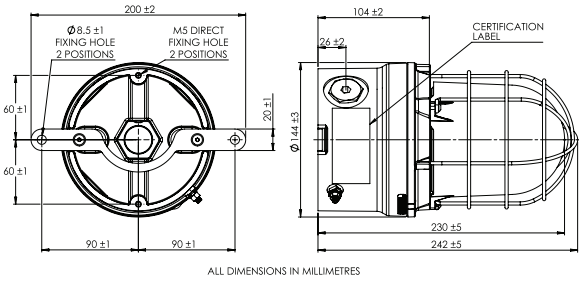
## Certifications

| | |
|---|---|
| **ATEX Ex d** | Cert. no. Baseefa 04ATEX0009X<br>Certified to: EN 60079-0, EN 60079-1, EN 60079-28, EN 60079-31<br>Ex II 2 GD Ex db is IIC T4/T5/T6 Gb, Ex tb is IIIC T85°C/T100°C/T135°C Db |
| **IECEx Ex d** | Cert. no. IECEx BAS 05.0048X<br>Certified to: IEC 60079-0, IEC 60079-1, IEC 60079-28, IEC 60079-31<br>Ex db is IIC T4/T5/T6 Gb, Ex tb is IIIC T85°C/T100°C/T135°C Db |
| **SIL** | SIL2 certified to IEC61508. Cert number FSP 12004 |

## Specifications

| | |
|---|---|
| **Material** | Body: 316L stainless steel or LM25 aluminum<br>Lens: borosilicate glass<br>Backstrap: stainless steel 316L<br>Wire guard: stainless steel wire (optional) |
| **Finish** | Painted to customer specification |
| **Models** | Available in pipe and direct mount versions |
| **Voltage** | 24, 48Vdc ±20% - 115Vac (110,120) 230Vac (220, 230, 240) -13.9% +14.8% |
| **Tube energy** | 5,10 & 15 Joule |
| **Tube life** | >1 x $10^6$ flashes |
| **Flash rate** | 60, 80, 120 fpm |
| **Certified temp** | -55°C to +85°C |
| **Weight** | Aluminium: 2.5kg; Stainless Steel: 4.75kg |
| **Ingress protection** | IP66 & IP67 |
| **Entries** | 2 x M20 (with 1 cert plug fitted)<br>2 x ¾" NPT (side) + 1 x ¾" NPT (base)(with 2 x cert plugs fitted) |
| **Terminals** | Entries Option A: 12 x 2.5mm²/14AWG<br>Entries Option B: 8 x 2.5mm²/14AWG |
| **Relay initiate** | Operates with 24V d.c. initiate supplies only |
| **Telephone initiate** | Operates from telephone ringing voltage |
| **Labels** | Tag/duty label optional |

## General arrangement drawing (all dimensions in mm)




ALL DIMENSIONS IN MILLIMETRES

**Electrical:**

| Nominal voltage @ 60fpm | d.c. | | a.c. (50Hz*) | | | | |
|---|---|---|---|---|---|---|---|
| | 24V | 48V | 110V | 120V | 230V | 240V | 254V |
| Average current 5J (mA) | 330 | 150 | 120 | 130 | 70 | 70 | 70 |
| Average current 10J (mA) | 650 | 320 | 190 | 210 | 110 | 120 | 120 |
| Average current 15J (mA) | 900 | 430 | 220 | 250 | 140 | 160 | 140 |

*For 60Hz please refer to the US datasheet

**Typical light output:**

| | 5J | 10J | 15J |
|---|---|---|---|
| Effective (Cd) | 107 | 280 | 382 |
| Peak (Cd) | 173,000 | 342,000 | 520,000 |

**Multiplying factor for coloured lens:**

| Red | Blue | Amber | Green | Yellow |
|---|---|---|---|---|
| 0.12 | 0.11 | 0.29 | 0.22 | 0.74 |

# 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 | Material | Certification | Voltage | Tube energy | Flashrate | Lens colour | Lens guard | Entries | Options | Finish |
|---|---|---|---|---|---|---|---|---|---|---|
| XB15M | | | | | | | | | | |

| Certification | Code |
|---|---|
| Dual ATEX/IECEx | AJ |
| Weatherproof | W |

| Energy | Code |
|---|---|
| 5 Joule | 05 |
| 10 Joule | 10 |
| 15 Joule | 15 |

| Lens | Code |
|---|---|
| Red | R |
| Blue | B |
| Green | G |
| Amber | A |
| Yellow | Y |
| Clear | C |
| Magenta | M |

| Fixing | Code |
|---|---|
| 2 x M20 | A |
| 2 x ¾"NPT (side) + 1 x ¾"NPT (base ) | B |

| Finish | Code |
|---|---|
| Black | N |
| Red | R |
| Blue | B |
| Yellow | Y |
| Green | G |
| White | W |
| Special | S* |

*Please specify
Note: apply to cover ring only, body is always black

| Material | Code |
|---|---|
| Stainless steel | S |
| Alluminium | A |

| Voltage | Code |
|---|---|
| 24V Vdc | 024 |
| 48V Vdc | 048 |
| 110, 120 Vac | 110 |
| 220, 230, 240 Vac | 230 |

| Flashrate | Code |
|---|---|
| 60/min | 06 |
| 80/min | 08 |
| 120/min | 12 |

| Guard | Code |
|---|---|
| Wire | W |

| Option | Code |
|---|---|
| None | N |
| Tag label | T* |
| Duty label | D* |
| Relay initiate | R† |
| Telephone initiate | I |
| EOL resistor | E§ |
| Auto Sync | A‡ |

* Please specify
† Suitable for 24Vdc initiate supply only
§ Please specify
‡ 24V d.c only