

## Ex d, Weatherproof



## Introduction

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.

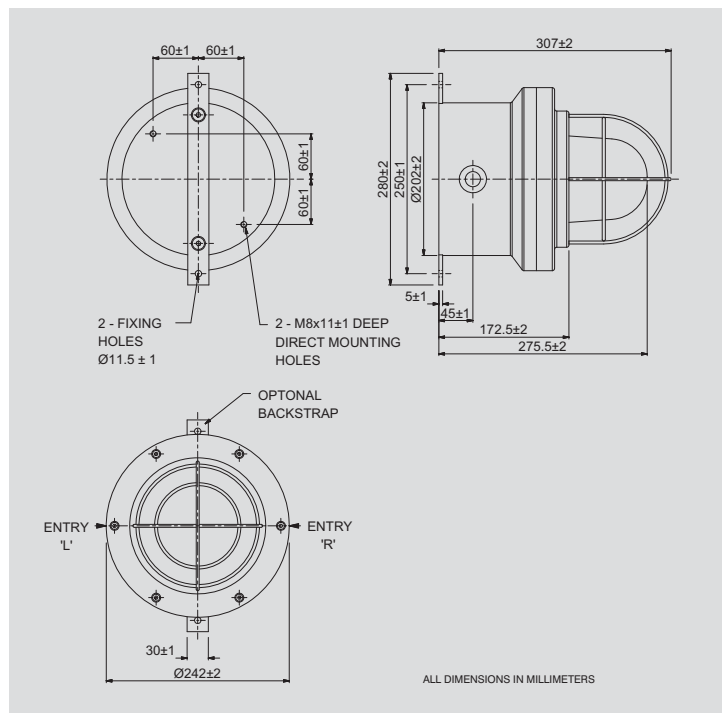
## Features

- Zone 1 and Zone 2 use.
- Ex d IIB T4/T5/T6.
- ATEX approved, Ex II 2G.
- BASEEFA certified.
- UL Listed for USA and Canada:
  - Hazardous locations:
    - Class I, Div 2, Groups C & D.
    - Class I, Zones 1 & 2, AExd IIB T4 & T5.
  - Ordinary locations: Visual-Signal Device.
  - Marine Listed.
- IECEx certified Gb.
- CUTR certified.
- Chinese (CQST) certified.
- Inmetro 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.



# Certification and Specification

|                              |                                                                                                                                                           |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ATEX Ex d:</b>            | Cert. no. BAS99ATEX2196.<br>Certified to: EN60079-0, EN60079-1.<br>Ex II 2G, Ex d IIB T4/T5/T6 Gb.                                                        |
| <b>IECEX Ex d:</b>           | Cert. no. IECEX BAS 10.0094.<br>Certified to: IEC60079-0, IEC60079-1.<br>Ex d IIB T4/T5/T6 Gb.                                                            |
| <b>UL Haz Locs:</b>          | Listing no. E187894.<br>Class I, Div 2, Groups C & D.<br>Class I, Zones 1 & 2, AExd IIB T4 & T5.                                                          |
| <b>UL Ord Locs:</b>          | Listing no. S8128. Visual Signal Device.                                                                                                                  |
| <b>CUTR Ex d:</b>            | 1Ex d IIB T4/T5/T6 Gb.                                                                                                                                    |
| <b>Inmetro Ex d:</b>         | Ex d IIB T4/T5/T6 Gb.                                                                                                                                     |
| <b>CQST:</b>                 | Ex d IIB T4/T5.                                                                                                                                           |
| <b>Material:</b>             | Body: Glass reinforced polyester.<br>Lens: Toughened Glass.<br>Cover Screws + Backstrap: Stainless steel 316.                                             |
| <b>Finish:</b>               | Natural black or painted to customer specification.                                                                                                       |
| <b>Weight:</b>               | 7.0kg.                                                                                                                                                    |
| <b>Certified Temp:</b>       | Exd -55°C to +70°C (T4). -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). |
| <b>Ingress Protection:</b>   | IP66 & 67.                                                                                                                                                |
| <b>Fire Retardancy:</b>      | GRP is fire retardant to ISO 1210.                                                                                                                        |
| <b>Earth Continuity:</b>     | Optional for metal glands provided via a brass plate (not available in UL version).                                                                       |
| <b>Terminals:</b>            | 6 x 6.0mm <sup>2</sup> .                                                                                                                                  |
| <b>Telephone initiation:</b> | Initiation by telephone ringing tone.                                                                                                                     |
| <b>Labels:</b>               | Duty/Tag Label optional.                                                                                                                                  |
| <b>Entries:</b>              | 2 x M20 ISO EExd.<br>2 x 1/2" NPT UL.                                                                                                                     |
| <b>Tube Life:</b>            | >1x10 <sup>6</sup> flashes                                                                                                                                |



## Electrical Ratings:

|                               | d.c.   | a.c. 50/60Hz |        |
|-------------------------------|--------|--------------|--------|
| <b>Voltage</b>                | 24     | 110          | 240    |
| XB12 Tube Energy (Joules)     | 21     | 21           | 21     |
| Peak Current Consumption (mA) | 1400   | 350          | 185    |
| Effective Intensity (Cd)      | 355    | 355          | 355    |
| Peak Intensity (Cd)           | 123691 | 123691       | 123691 |
| Power Consumption (Watts)     | 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                                                                                                                                                               |               |                                                                                    |           |                                                                                                |            |                                                                                              |                  |                                                                                                                   |              |                                                                                                                             |  |
| <b>Certification Code</b><br>Uncertified W<br>ATEX B<br>IECEX J<br>UL UL<br>UL (ordinary locations) UW<br>UL Marine UM<br>CUTR G<br>Chinese (CQST) Q<br>Inmetro DM |               | <b>Fpm Code</b><br>60 / min 06<br>Other flash rates available, please specify.     |           | <b>Guard Code</b><br>None N<br>Yes Y                                                           |            | <b>Continuity Code</b><br>None N<br>Yes Y*<br>*Earth continuity not available in UL version. |                  | <b>Option Code</b><br>None N<br>Blanking Plug P<br>Telephone T*<br>*Telephone option not available in UL version. |              | <b>Finish Code</b><br>Natural Black N<br>Red R<br>Blue B<br>Yellow Y<br>Grey G<br>White W<br>Special S*<br>*Please specify. |  |
| <b>Voltage Code</b><br>24V d.c. 024<br>110V a.c. 110<br>240V a.c. 240<br>Other voltages available, please specify.                                                 |               | <b>Colour Code</b><br>Red R<br>Blue B<br>Green G<br>Amber A<br>Yellow Y<br>Clear C |           | <b>Fixings Code</b><br>Direct mount D<br>without backstrap<br>Direct mount B<br>with backstrap |            | <b>Label Code</b><br>None N<br>Yes Y*<br>*Please specify.                                    |                  |                                                                                                                   |              |                                                                                                                             |  |



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**Thorne & Derrick**  
+44 (0) 191 410 4292  
www.powerandcables.com



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