

XB15M range 5, 10 & 15 joule xenon beacons

Ex db, 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.

The latest addition to the XB15 flagship beacon range not only aligns with the GRP version in terms of spare parts but also introduces enhanced application flexibility. With a removable guard, improved mounting hardware and swappable lens covers, it minimises spares inventory and allows for relocation – customers can simply select the relevant colour for the required location of the beacon to indicate a procedure, process underway or emergency notification.

The housings are manufactured from 316L stainless steel or LM25 marine grade aluminum. Stainless steel screws and mounting backstrap are incorporated ensuring durability in the field.

As well as the standard worldwide certificates, SIL 2 is available.

Features

- Zones 1, 2, 21 & 22
- Ex db IIC, T3/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 aluminium
- Four wire and supervisory diode
- Removable stainless steel backstrap
- Swappable coloured lens covers
- Optional relay or telephone initiate
- Customer removable wire lens guard
- 2x M20 or 3x ¾" NPT entries
- Low inrush current characteristics
- Consistent extreme temperature start-up
- Automatic synchronization option



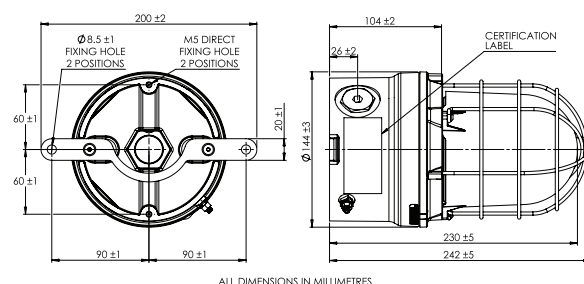
Certifications

ATEX Ex db	Cert. no. Baseefa 04ATEX0009X Certified to: EN IEC 60079-0, EN 60079-1, EN 60079-31 Ex II 2 GD Ex db IIC T3/T4/T5/T6 Gb, Ex tb IIIC T200°C/T135°C/T100°C/T85°C Db
IECEX Ex db	Cert. no. IECEX BAS 05.0048X Certified to: IEC 60079-0, IEC 60079-1, IEC 60079-31 Ex db IIC T3/T4/T5/T6 Gb, Ex tb IIIC T200°C/T135°C/T100°C/T85°C Db
INMETRO Ex db	Ex db IIC T3/T4/T5/T6 Gb, Ex tb IIIC T200°C/T135°C/T100°C/T85°C Db
SIL	SIL 2 certified to IEC61508. Cert number FSP 12004

Specifications

Material	Body: 316L stainless steel or LM25 aluminum Lens: borosilicate glass Lens cover: polycarbonate Backstrap: stainless steel 316L Wire guard: stainless steel wire (optional)
Finish	Painted to customer specification
Models	Available in pipe and direct mount versions
Voltage	24, 48Vdc $\pm 20\%$ - 115Vac (110, 120) 230Vac (220, 230, 240) -13.9% +14.8%
Tube energy	5, 10 & 15 joule
Tube life	$> 1 \times 10^6$ flashes
Flash rate	60, 80, 120 fpm
Certified temp	15J: -55°C to +85°C (T3), -55°C to +70°C (T4) 10J: -55°C to +85°C (T3), -55°C to +80°C (T4), -55°C to +45°C (T5) 5J (DC Unit): -55°C to +85°C (T4), -55°C to +70°C (T5), -55°C to +55°C (T6) 5J (AC Unit): -55°C to +85°C (T4), -55°C to +55°C (T5), -55°C to +40°C (T6)
Weight	Aluminium: 2.5kg; stainless steel: 4.75kg
Ingress protection	IP66 & IP67
Entries	2 x M20 (with 1 cert plug fitted) 2 x 3/4" NPT (side) + 1 x 3/4" NPT (base) (with 2 x cert plugs fitted)
Terminals	Entries Option A: 12 x 2.5mm ² /14AWG Entries Option B: 8 x 2.5mm ² /14AWG
Relay initiate	Operates with 24V d.c. initiate supplies only
Telephone initiate	Operates from telephone ringing voltage
Labels	Tag/duty label optional
Synchronization	Up to 6 beacons on a loop can synchronize without the need for an external controller. Beacons will need to be the same flashrate and need the A code in the options
EOL Resistor	Customers may fit a monitoring resistor to DC units. The maximum total power dissipation through the resistor must be limited to 2W.

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	Magenta
0.12	0.18	0.33	0.22	0.74	0.12

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																																																						
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