

XB15 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 completely from a UV stable, glass reinforced polyester. Stainless steel screws and mounting bracket are incorporated ensuring a totally corrosion-free product.

The model XB15 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, EN54-23 and SIL1 are both now available.

As well as the XB15 being certified from -55°C to +70°C, the new control circuits have been designed to consistently energise at -55°C.

Features

- Zones 1, 2, 21 & 22
- Exd IIC, T4/T5/T6
- ATEX certified, Ex II 2GD
- IECEx certified Gb, Db
- UL certified for USA and Canada:
 - Hazardous locations:
 - Class I, Div. 2, Groups A, B, C & D
 - Class II, Div 2 Groups F & G
 - Class I, Zone 1, AExd IIC T4/T5/T6
 - Ordinary locations: visual-signal device
 - Marine listed
- ULC certified to Canadian Safety Standards
- TR CU certified
- CCCF certified
- CQST certified
- INMETRO certified
- CCOE certified
- IP66 & 67
- EN54-23 certified
- SIL 1 certified
- Certified temperature from -55°C to +70°C
- 5, 10 & 15J versions available
- Pipe mount or direct mount enclosure
- Corrosion-free GRP
- Four wire and supervisory diode
- Optional stainless steel backstrap
- Various lens colours
- Optional relay or telephone initiate
- Optional cast or wire lens guard
- Up to 3 x M20 or 3 x M25 entries
- LED version available (see data sheet for LD15)
- Improved inrush current characteristics
- Consistent extreme temperature start-up

**ATEX IECEx****Malux**
solutions

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Printed in UK
Publication
No.DSMC0022/B
February 2018

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the datasheet

EATON

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Certifications	
ATEX Ex d	Cert. no. Baseefa 04ATEX0009X Certified to: EN60079-0, EN60079-1, EN60079-31 Ex II 2GD Ex db IIC T4/T5/T6 Gb, Ex tb IIIC T85°C/T100°C/T135°C Db
IECEx Ex d	Cert. no. IECEx BAS 05.0048X Certified to: IEC60079-0, IEC60079-1, IEC60079-31 Ex db IIC T4/T5/T6 Gb, Ex tb IIIC T85°C/T100°C/T135°C Db
UL Haz Locs	Cert. no. E187894 Class I, Div 2, Groups A, B, C & D Class II, Div 2, Groups F & G Class I, Zones 1, AExd IIC T4/T5/T6
UL Ord Locs/Marine	Cert. no. S8128. Visual signal device
ULC Haz Locs	For ULC ordering codes and technical details please refer to the US data sheet
TR CU Ex d	1Ex db op is IIC T4/T5/T6 Gb X. Ex tb op is IIIC T85°C/T100°C/T135°C Db X Russian Fire Alarm approved
INMETRO Ex d	Ex d IIC T4/T5/T6 Gb, Ex tb IIIC T85°C/T100°C/T135°C Db
CQST Ex d	Ex db IIC T4/T5/T6 Gb Ex tb IIIC T85°C/T100°C/T135°C Db
SIL	SIL1 certification to IEC61508. Cert. No. Sira FSP 12004 (All DC versions. Does not include telephone initiate version) SIL1 certification to IEC61508. Cert. No. 20151123-4786980667 (All AC versions. Does not include telephone initiate version)
EN54-23	LPCB: 1120b/01, CPR: 0832-CPR-F0761 (White) LPCB: 1120b/02, CPR: 0832-CPR-F0762 (Red)
CCCF	Chinese Compulsory Certification for Fire Systems (CCCF)

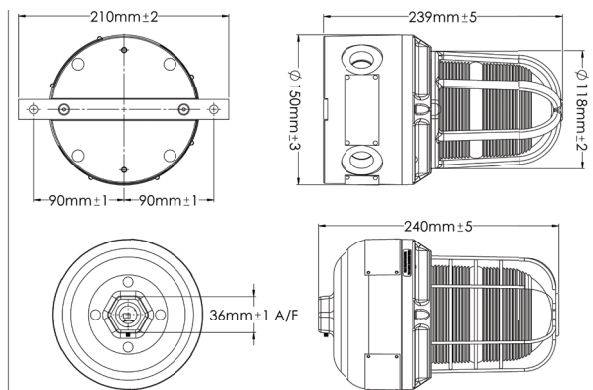
Specifications	
Material	Body: glass reinforced polyester Lens: borosilicate glass Backstrap: stainless steel 316 Wire guard (optional): stainless steel wire Cast guard (optional): aluminium LM25M
Finish	Natural black or painted to customer specification
Models	XB15 ATEX – available in direct mount version only XB15 UL – available in pipe and direct mount versions
Voltage	24, 48V d.c. - 110, 120, 230, 240, 254V a.c.
Tube energy	5, 10 & 15 Joule
Tube life	>1 x 10 ⁶ flashes
Flash rate	60, 80, 120 fpm
Certified temp	15J: -55°C to +70°C (T4), -55°C to +40°C (T5) 10J: -55°C to +70°C (T4), -55°C to +55°C (T5), -55°C to +40°C (T6) 5J: -55°C to +70°C (T5), -55°C to +55°C (T6)
Weight	Pipe mount: 2.6kg; Direct mount: 3.0kg
Ingress protection	IP66 & IP67
Entries	ATEX version: Standard: 2 x M20 Optional: 1 x M20/M25, 3 x M20/M25 entries UL version: Standard pipe: ¾" NPT Standard direct: 2 x ¾" NPT Optional direct: 1 x ½"/¾" NPT or 3 x ½"/¾" NPT Dual UL/ATEX, UL/IECEX: Standard direct: 2 x ¾" NPT
Terminals	Direct mount: 12 x 2.5mm ² /14AWG. Pipe mount: 8 x 14AWG
Relay initiate	Operates with 24V d.c. initiate supplies only
Telephone initiate	Operates from telephone ringing voltage
Labels	Tag/duty label optional

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	Tube energy	Flashrate	Lens colour	Lens guard	Fixings	Options	Finish
XB15									
Certification ATEX ATEX+EN54-23 IECEx Dual ATEX/UL Dual IECEx/UL UL UL (ordinary locations) UL Marine TR CU CQST CQST/CCCF INMETRO Weatherproof Weatherproof +EN54-23		Energy 5 Joule 10 Joule 15 Joule		Lens Red Blue Green Amber Yellow Clear		Fixing Pipe mount Direct mount without backstrap Direct mount with backstrap		Finish Natural black Red Blue Yellow Green White Special	
Code B B54 J AU JU UL UW UM G* Q QF DM† W W54		Code 05 10 15†		Code R*† B G A Y C		Code P*† D† B†		Code N R B Y G W S*	
*Russian Fire Approved as standard †5 & 10 J only available on 24 & 48Vdc		†EN54/CCCF & UM must be 15J		*EN54 must be red or clear †CCCF must be red		*Only available on UL listings *Not available for EN54/CCCF †Contact MEDC if 1/2"NPT is required		*Please specify	
Voltage 24V d.c. 48V d.c. 110V a.c. 120V a.c. 230V a.c. 240V a.c. 254V a.c.		Code 024† 048 110 120 230 240 254*		Flashrate 60/min 80/min 120/min		Code 06* 08 12		Option None Tag label Duty label Relay initiate Telephone initiate Blanking plug	
				*EN54/CCCF must be 60/min		*EN54/CCCF not available with lens guard		Code N T* D* R† It P	
								*Please specify. For EN54/UL/AU/JU, one label only. †Suitable for 24V d.c initiate supplies only. Not CCCF ‡Not available on UL/UW/UM/SIL/EN54/CCCF	

General arrangement drawing (all dimensions in mm)



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

EN54-23 rating:

White		Red	
Rating	Volume (m³)	Rating	Volume (m³)
C-3-32	2,413	C-3-16	603
C-6-31	4,529	C-6-6	170
C-9-12	1,018		
W-8-13	1,352	W-3-5	75