

Ex d, Weatherproof



Introduction

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 lightweight 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 available 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.

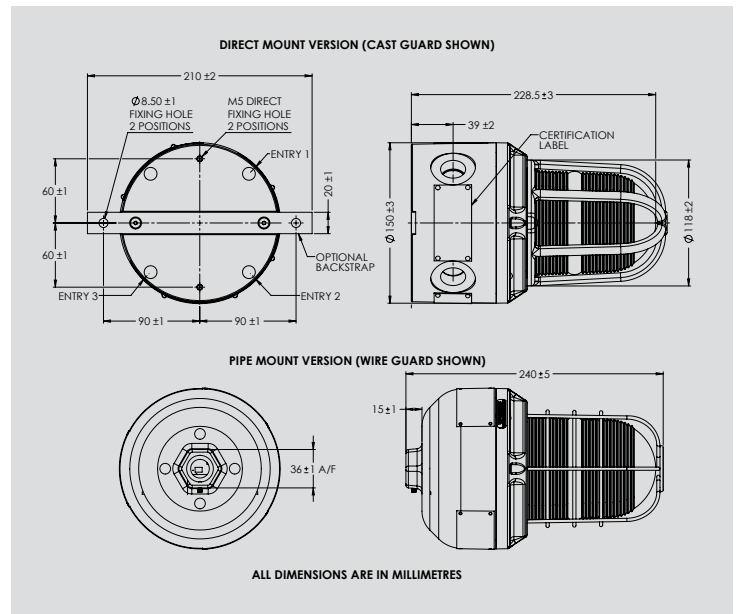
Features

- Zone 1 and Zone 2 use.
- Exd IIC, T4/T5/T6.
- ATEX approved, Ex II 2GD.
- IECEx Certified Gb, Db.
- UL listed 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 IIB & IIC* T4/T5/T6.
 - Ordinary locations: Visual-Signal Device.
 - Marine listed.
- *Not applicable for Canada
- ULC Listed to Canadian Safety Standards
- CUTR certified.
- Chinese (CQST) certified.
- Brazilian (Inmetro) certified.
- IP66 & 67.
- EN54-23 Certified.
- SIL 1 Certified.
- Certified temperature: -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.



Certification and Specification

ATEX Exd:	Cert. no. Baseefa 04ATEX0009X. Certified to: EN60079-0, EN60079-1, EN60079-31. Ex II 2GD, Ex d 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 d IIC T4/T5/T6 Gb. Ex tb IIIC T85°C/T100°C/T135°C Db.
UL Haz Locs:	Listing no. E187894. Class I, Div 2, Groups A*, B*, C & D. Class II, Div 2, Groups F & G. Class I, Zones 1, AExd IIB & IIC* T4/T5/T6. <i>*Not applicable for Canada</i>
UL Ord Locs/Marine:	Listing no. S8128. Visual Signal Device.
ULC Haz Locs:	For ULC ordering codes and technical details please refer to the US data sheet.
CUTR Ex d:	1Ex d IIC T4/T5/T6 Gb. Ex tb IIIC T85°C/T100°C/T135°C Db. Russian Fire Alarm approved.
Inmetro Ex d:	Ex d IIC T4/T5/T6 Gb.
CQST Ex d:	Ex d IIB T4/T5. (10J & 15J only)
SIL:	SIL1 certification to IEC61508. Cert. No. Sira FSP 12004. (except telephone initiate version)
EN54-23:	LPCB: 1120b/01, CPR: 0832-CPR-F0761 (White) LPCB: 1120b/02, CPR: 0832-CPR-F0762 (Red)
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. (5 & 10J 24,48Vdc only)
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: 3/4" NPT Standard Direct: 2 x 3/4" NPT Optional Pipe: 1/2" 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.



DC Currents:	Average Current (A)			Inrush Current (A)		
	5J	10J	15J	5J	10J	15J
Vdc	24	0.33	0.65	0.9	0.5	0.5
	48	0.15	0.32	0.43	1.5	1.5

AC Currents:	Vac					
	110	120	230	240	254	
Average Current (A)	15J	0.4	0.4	0.2	0.2	0.17

Typical Light Output:			
	5J	10J	15J
Effective (Cd)	107	280	382
Peak (Cd)	173,000	342,000	520,000

Multiplying Factor For Coloured Lenses:				
Red	Blue	Amber	Green	Yellow
0.12	0.11	0.29	0.22	0.74

EN54-23 Rating:			
White		Red	
Rating	Volume(m ³)	Rating	Volume(m ³)
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

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	Code	Voltage	Code	Flashrate	Code	Guard	Code	Option	Code	Finish	Code
ATEX	B	24V d.c.	024†	60 / min	06*	None	N*	None	N	Natural Black	N
ATEX+EN54-23	B54	48V d.c.	048	80 / min	08	Cast	C	Tag label	T*	Red	R
IECEX	J	110V a.c.	110	120 / min	12	Wire	W	Duty label	D*	Blue	B
UL	UL	120V a.c.	120	*EN54 must be 60/min.				Relay initiate	R†	Yellow	Y
UL (ordinary location)	UW	230V a.c.	230	Tube Energy Code				Telephone initiate	I‡	Green	G
UL Marine	UM	240V a.c.	240	5 Joule	05*‡			Blanking Plug	P	White	W
CUTR	G*	254V a.c.	254	10 Joule	10*					Special	S*
CQST	Q			15 Joule	15†						
Inmetro	DM			† EN54 & UM must be 15J.							
Weatherproof	W			‡ Not CQST							
Weatherproof + EN54-23	W54										

All specifications, dimensions, weights and tolerances are nominal (typical) and MEDC reserve the right to vary all data without prior notice. No liability is accepted for any consequence of use.

