D-Ex Instruments MEDC signalling and alarms

CROUSE-HINDS SERIES

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
- COST 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





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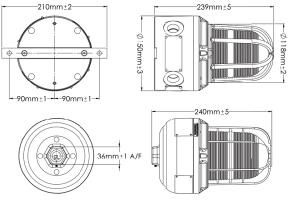
All specifications, dimensions, weights and tolerances are nominal (typical) and Eaton reserve the right to vary all data without prior notice. No liability is accepted for any consequence of use.



www.dex.cz/produkt/nevybusny-xenonovy-majak-xb15/

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 IICT4/T5/T6 Gb. Ex tb IIICT85°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 Compulsary 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: %" 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									
Laneis										

General arrangement drawing (all dimensions in mm)



Electrical:

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Nominal voltage @	d.	с.	a.c. (50Hz*)						
60fpm	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:

	5]	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:

Wh	ite	Red					
Rating	Volume (m ³)	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				

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	F	Voltage	Tube en	ergy F	lashrate	Lens colou	.ens uard	Fixings		Options		Finish	
ATEX ATEX IECE: Dual UL UL (o UL M TR CC CQST INME Weat Weat	+EN54-23 x ATEX/UL IECEX/UL rdinary locations) arine J r r r r r r r r r r r r r	Code B B54 J UU UW UW UW G* QF DM† W54		Energy 5 Joule 10 Joule 15 Joule EN54/CCCF must be 15J	Code 05 10 15†		Lens (Red Blue Green Amber Yellow Clear EN54 must or clear CCCF must	* OI * No + Co	Fixing Pipe mount Direct mount vithout backstrap Direct mount with wackstrap nly available on UL j t available for EN5- ontact MEDC if 1/2" quired	4/CCCF		Finish Natur Red Blue Yellov Greer White Speci *Please	ral black w n e ial	Code N R B Y G W S*
as sta †5 & 10		24\ 48\ 110 230 254 †EN54	/ d.c. 0 / d.c. ()/ a.c. 1)/ a.c 1)/ a.c 2)/ a.c 2 1/ a.c 2 4/CCCF mus	ode 24† 241 10 120 230 240 54* t be 24Vdc /UM/UW/AU/	60/n 80/n 120/ *EN54/	nin 08	*		5	Teleph	bel	Code N T* D* R† I‡ P	AU/JU, o †Suitable initiate s ‡Not avai	specify. For EN54/UL/ one label only. for 24V d.c supplies only. Not CCCF ilable on UL/UW/ /EN54/CCCF