XB4 21 joule xenon beacon range

Ex d(e), weatherproof

Overview

These high output (21 joule) beacons have been designed for use in potentially explosive atmospheres and harsh environmental conditions. The marine grade alloy or stainless steel enclosures are suitable for use offshore or onshore, where lightweight combined with corrosion resistance and strength is required.

Units can be painted to customer specification and fitted with identification labels. Stainless steel, one of the most durable materials available on the market, is both hard wearing and corrosion resistant, increasing the life of products in harsh environments and therefore reducing maintenance costs.

Features

- Zone 1 and Zone 2 use
- Ex d(e) IIC
- ATEX approved Ex II 2GD
- IECEx certified Gb,Db
- UL Listed for USA and Canada:
  - Hazardous locations:
    - Class I, Div 1, Groups C & D
    - Class I, Zone 1, AEx d IIB T4
  - Ordinary locations: visual-signal device
- CCOE certified
- Certified temperature –55°C to +70°C*
- IP67 and IP66
- Stainless steel or marine grade alloy
- Various lens colours
- Twin replaceable tubes
- Optional Ex e chamber
- Ex de version has gland earth continuity in the GRP terminal chamber
- Tapered spigot flamepath
- Telephone or relay initiated option
- Optional lens guard

*Model dependent

ATEX IECEx cULus

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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.
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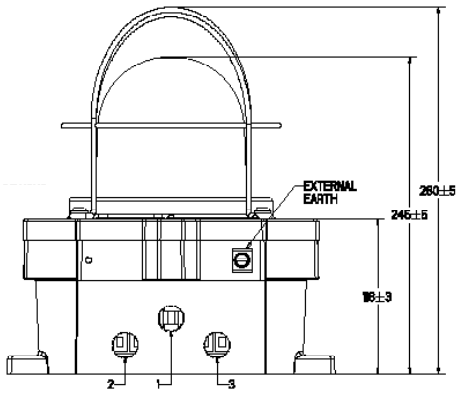
Certifications

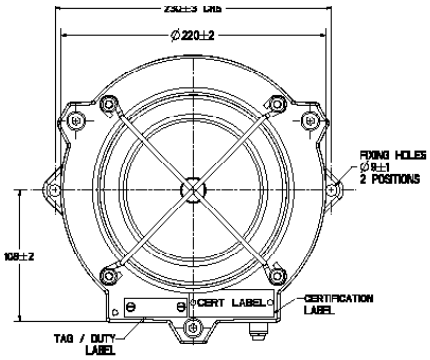
ATEX Ex d	Cert. no. Baseefa 02ATEX0224X Certified to: EN60079-0, EN60079-1, EN60079-31 Ex II 2GD, Ex d IIC T4/T5/T6 Gb. Ex tb IIIC T85°C/T100°C/T135°C Db
ATEX Ex de	Ex II 2G EEx de IIC
IECEx Ex d	Cert. no. IECEx BAS 10.0078X Certified to: IEC60079-0, IEC60079-1, IEC60079-31 Ex II 2GD, Ex d IIC T4/T5/T6 Gb. Ex tb IIIC T85°C/T100°C/T135°C Db
UL Haz Locs	Listing no. E187894 Class I, Div 1, Groups C & D Class I, Zone 1, AEx d IIB T4
UL Ord Locs	Listing no. S8128. Visual signal device

Specifications

Material	LM25TF marine grade alloy body Grade 316 ANC4B stainless steel body Glass reinforced polyester (GRP) terminal chamber Toughened wellglass
Finish	Epoxy paint finish as standard or to customer specification
Certified temp	UL -25°C to +70°C ATEX -50°C to +55°C (Ex de) ATEX, IECEx -55°C to +70°C (Ex d)
Weight	Ex d: 6.6kg. Ex de: 7.6kg. Add 8.4kg for stainless steel version
Entries	Up to 3 x M20 or 2 x M25 ISO in Exd unit Up to 4 x M20 or 4 x M25 ISO in Exe unit
Terminals	Exe: 6 off suitable for up to 6mm² cable Exd: 8 off suitable for up to 6mm² cable
Telephone initiation or relay interface	Initiation by telephone ringing tone or low voltage control signals, plus initiation of a second beacon or sounder
Tube life	>1x10⁶ flashes

General arrangement drawing (all dimensions in mm)





Electrical ratings:

	dc	ac 50/60/Hz	
Voltage	24	110	240
Tube energy (joules)	21	21	21
Current (mA)	1400	350	185
Effective intensity (Cd)	355	355	355
Peak intensity (Cd)	123691	123691	123691

Note: The above figures (Cd) 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 given above has been verified by BSI Reports are 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	Terminals	Entries	Flashrate	Options	Guard	Lens colour	Tag/duty	Material	Finish
XB4											

Certification	Code
ATEX	B
IECEx	J
UL	UL*
UL (ordinary locations)	UW

* UL - available alloy or stainless steel
- 24v d.c., 110v a.c.,
- 240v a.c. only

Terminals	Code
6 x 6mm² (Ex de)	6E*
8 x 6mm² (Ex d)	8D

*IECEx and UL not available in Ex de

Flashrate	Code
60 / min	06
120 / min	12

Guard	Code
None	N
Yes	Y

Label	Code
None	N
Yes	Y*

*Please specify

Finish	Code
Red	R
Blue	B
Yellow	Y
Grey	G
White	W
Other	S*

*Please specify

Voltage	Code
24Vdc	B
48Vdc	C
110Vdc	D
110Vac	E
120Vac	F
220Vac	G
240Vac	H
254Vac	J

Entries	Code
M20	*B
M25	*C
½" NPT	*D
¾" NPT	*E

*Prefix entry size (see diagram above) with entry position code e.g 2B3B

Options	Code
None	A
Telephone	B
Telephone & 2nd beacon/sounder	C
Relay (12-48Vac/dc)	D*
Relay (12-48Vac/dc) & 2nd beacon/sounder	E*

*Please specify ac/dc voltage

Lens	Code
Red	R
Blue	B
Green	G
Yellow	Y
Amber	A
Clear	C

Material	Code
Alloy	1
Stainless steel	0