

# 5 JOULE XENON & HIGH INTENSITY LED BEACONS EExd(e), Weatherproof SM87, XB3 & LED Ranges



## Introduction

These certified beacons have been designed for use in harsh environmental conditions. The stainless steel or marine grade alloy enclosures are suitable for use offshore or onshore, where light weight combined with corrosion resistance and strength is required. Units can be painted to customer specification and fitted with identification labels.

Available with optional EExe integral terminal chamber.

LED version available, offering extended lifetimes.

A high temperature version is available – contact MEDC for details.

- ★ Zone 1 and Zone 2 use.
- ★ EExd, EExde IICT4/T6.
- ★ CENELEC approved.
- ★ BASEEFA Certified.
- ★ UL Listed – Class 1, Div. 1, Groups C & D.  
– Class 1, Zone 1.
- ★ CSA Certified.
- ★ GOST Certified\*.
- ★ IP66 and IP67.
- ★ Certified temperature\* –55°C to +55°C.
- ★ High temperature version (up to 85°C) available.
- ★ Stainless steel or marine grade alloy.
- ★ Xenon or LED versions.
- ★ Optional EExe terminal chamber.
- ★ Various lens colours.
- ★ Optional lens guard.
- ★ Telephone or relay initiated.

\*Depending on version.

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# Specification

Certification: BASEEFA EExdIIC T6 (HXB, XBT & LED). EExde IIC T6 (XB3 & LED3).  
 Cert. No. Ex88B1232 (HXB & LED). Ex 92C 1389 (XB3 & LED3).  
 CENELEC EN50014 and EN50018 and EN50019.  
 CSA Certification to C22.2 Nos. 0, 0.4, 0.5, 9, 30-M1986, 94-M91, 137-M1981. Class 1. Div 1. Group D. Enclosure 3/4.  
 Cert. No. 96406. (SM87 HXB only).  
**UL Listed** for Class 1, Div 1, Groups C & D and Class 1, Zone 1. (SM87 HXB & XBT only). Listing No. E187894. Refer to UL data sheet, at rear of catalogue, for complete information.  
**GOST Certification:** 1Exd IIC T4, Cert. No. A-0756 (SM87HXB only).

**Material:** HXBS, XBTS and LEDS – Grade 316 ANC4B Stainless Steel.  
 HXBA, XBTA & LEDA – LM25 TF Marine Grade Alloy.  
 Lens – Glass.  
 Note: Terminal Chamber available only in Stainless Steel.  
 UL version available only in marine grade alloy.  
 CSA version available only in stainless steel.

**Finish:** Epoxy paint finish as standard or to customer's specification.

Voltage	DC		AC 50/60 Hz				
	24	48	110	120	220	240	254
<b>SM87 HXB XBT &amp; XB3</b>							
Tube Energy (Joules)	5	5	6	7	6	7	8
Peak Current							
Consumption (mA)	320	170	250	275	120	135	150
Effective Intensity (Cd)	29	29	32	39	32	39	44
Peak Intensity	22213	22213	25061	30187	25061	30187	34174
Power Consumption (Watts)	7.2	7.6	25	27	25	27	35
<b>SM87 LED</b>							
Current Consumption	165mA	85mA	N/A	N/A	N/A	N/A	N/A

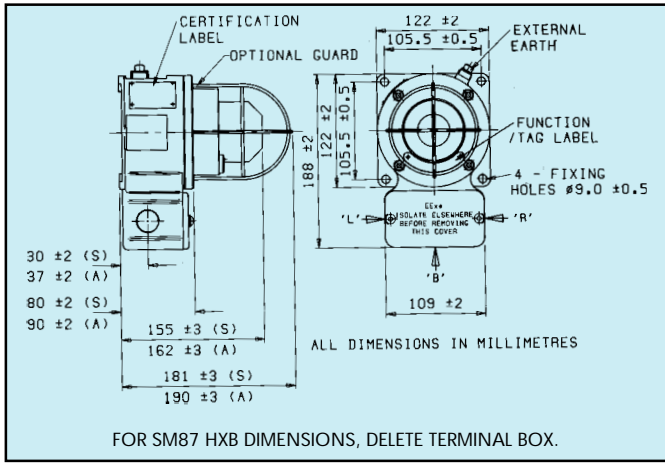
FOR COLOURED LENSES

Colour	Red	Blue	Amber	Green	Yellow
Multiplying Factor	0.15	0.12	0.51	0.49	0.86

The photometric data has been verified by BSI. A report is available if required.

LED Light Output	Colour	Total LED Output (Candela)
Steady or Flashing (customer selectable)	Red	192
	Amber	64
	Green	17
	Blue	64

LED/Lens Colour: Red, Blue, Green, Amber, Yellow (not LED) or Clear (not LED).



**Weight:** HXBS & LEDS – 3.8kg each (approx). XB3 & LED3 – 4.5kg (approx).  
 HXBA & LEDA – 2kg. each (approx.).

**BASEEFA** HXB = -55°C to +55°C.  
**Certified** XB3 = -20°C to +40°C.  
**Temperature:** LED = -20°C to +40°C.  
 LED3 = -20°C to +40°C.  
 LED3 = -20°C to +40°C.  
 Versions are available certified up to +55°C maximum with a T4 rating.  
 XBT (High temp) = -40°C to +85°C.

**CSA Certified**  
 Temperature: -50°C to +40°C.  
**UL Certified**  
 Temperature: HXB = -55°C to +55°C. XBT (High Temp.) = -40°C to +85°C.  
**GOST Certified**  
 Temperature: HXB = -55°C to +55°C.

**Ingress Protection:** IP66 & IP67.

**Terminals:** XB3 & LED3 – 6 off suitable for up to 6mm<sup>2</sup> cable. (With telephone initiate 8 x 2.5mm<sup>2</sup>).  
 HXB & XBT – 4 off suitable for up to 2.5mm<sup>2</sup> cable.  
 LED – 6 off suitable for up to 2.5mm<sup>2</sup> cable.

**Termination:** Models HXB, XBT & LED use a single Exd chamber.  
 Models XB3 & LED3 incorporate an Exe chamber for termination.

**Telephone initiation or relay interface:**  
 Initiation by telephone ringing tone or low voltage control signals.

**Labels:** Duty & Tag Labels optional.

**Entries:** Up to 4 x 20mm/25mm ISO or 1/2"/3/4" NPT. (HXB, XBT, LED).  
 3 x 20mm or 25mm ISO (XB3, LED3).

## Ordering Requirements

The following code is designed to help in the selection of the correct unit. Build up the reference number by inserting the code for each component into the appropriate box. **For standard products, available ex-stock, contact sales office for details.**

Model	Certification	Voltage	Lens/LEDcolour	Lens Guard	Entries	Tag/Duty Label	Initiate Option	Unit Finish
<b>Type</b>	<b>Code</b>	<b>Certification</b>	<b>Colour</b> <b>Code</b>	<b>Entries</b> <b>Code</b>	<b>Initiate Option</b> <b>Code</b>	<b>Finish</b> <b>Code</b>		
Xenon (stainless steel)	SM87HXBS	BASEEFA    B UL            UL	Red            R Blue            B Green          G Amber          A Yellow          Y (not LED) Clear            C (not LED)	20mm          1 25mm          2 1/2" NPT       3 3/4" NPT       4 Top (only on HXB)    *T Bottom          *B RHS            *R LHS            *L	Telephone      *T Relay            *R EOL Resistor   *E None            N	Red            R Blue            B Yellow          Y Yellow/Black Stripe   X Grey            G White           W Special Finish   S		
Xenon (alloy)	SM87HXBA	CSA            C GOST           G		*prefix position with entry size code. e.g. 1R1B=20mm Right and Bottom entries.	*Not available on UL versions			
Xenon EExde (stainless steel) with Exe terminal chamber	XB3	Only HXBS is available CSA certified.						
Xenon High Temp. (alloy)	SM87XBTA*	Only HXBA & XBTA is available UL certified.						
Xenon High Temp. (stainless steel)	SM87XBTS*	Only HXBA is available GOST certified.						
LED EExd (stainless steel)	SM87LEDS		<b>Voltage</b> <b>Code</b>					
LED EExd (alloy)	SM87LEDA		24V d.c.       024 48V d.c. not XBT   048 110V a.c. not LED, XBT   110 120V a.c.        120 220V a.c.        220 240V a.c.        240 254V a.c.        254					
LED EExde (stainless steel) with Exe terminal chamber	LED3							
				<b>Guard</b> <b>Code</b>	<b>Label</b> <b>Code</b>			
				None          N Yes            Y	None          N Yes            Y (Please specify)			

\*XBT only available 24V d.c.



All the above 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.