# **CROUSE-HINDS**

## SM87HXB 5 joule xenon and SM87LED high intensity LED beacon range

Ex d, weatherproof



## Overview

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 lightweight combined with corrosion resistance and strength is required. Units can be painted to customer specification and fitted with identification labels.

LED version available, offering extended lifetimes.

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

### **Features**

- Zone 1 and Zone 2 use
- Ex d IICT4/T5/T6
- ATEX approved, Ex II 2GD
- IECEx certified Gb, Db
- UL listed for USA and Canada Class I, Div 1, Groups C & D Class I, Zone 1, AExd IIB
- CSA certified
- CQST certified\*
- INMETRO certified\*
- SIL 2 certified
- CCOE certified

- IP66 and IP67
- Certified temperature: -55°C to
- Stainless steel or marine grade
- Xenon or LED versions
- Various lens colours
- Optional lens guard
- Telephone or relay initiated
  - \*Depending on version











NG17 5FB

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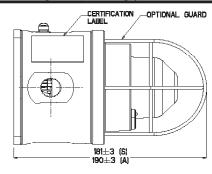
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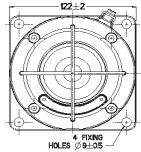
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#### Certifications ATEX Ex d Cert. no. Baseefa 03ATEX0222 Certified to: EN60079-0, EN60079-1, EN60079-31 SM87HXB: Ex II 2GD, Ex d IIC T5/T6 Gb, Ex tb IIIC T65°C/T80°C/T95°C Db Ex II 2GD, Ex d IIC T6 Gb, Ex tb IIIC T55°C/T70°C Db IECEx Ex d Cert. no. IECEx BAS 09.0059 Certified to: IEC60079-0, IEC60079-1, IEC60079-31 Ex d IIC T5/T6 Gb, Ex tb IIIC T65°C/T80°C/T95°C Db SM87HXB: SM87LED: Ex d IIC T6 Gb, Ex tb IIIC T55°C/T70°C Db UL Listing no. E187894 Class I, Div 1, Groups C & D Class I, Zones 1. (SM87HXB & SM87XBT only) CSA Cert no. 96406. (SM87HXB only) Certified to: C22.2 Nos 0, 0.4, 0.5, 9, 30-M1986, 94-M91, 137-M1981 Class I, Div 1. Group D SM87HXB: Ex db IIC T5/T6 Gb, Ex tb IIIC T80°C/T95°C Db INMETRO Ex d SM87LFD: Ex db IIC T6 Gb, Ex tb $\underline{\text{IIIC}}$ T70°C Db Ex d IIC T5/T6 Gb, Ex tb IIIC T65°C/T80°C/T95°C Db CQST Ex d SM87HXB: SIL2 certification to IEC61508. Cert. No. 20151119-4786827453 SII **Specifications** SM87HXBS and SM87LEDS: Grade 316 ANC4B stainless steel SM87HXBA and SM87LEDA: LM25 TF marine grade alloy Material Lens: glass UL version available only in marine grade alloy Finish Epoxy paint finish as standard Certified temp SM87HXB: ATEX, IECEx, CQST, INMETRO -55°C to +70°C (T5) -55°C to +55°C (T6) UL -55°C to +70°C CSA -50°C to +40°C SM87LED: ATEX, IECEx, CQST, INMETRO -55°C to +55°C\* (T6) \* Operating temperature is -20°C to +55°C SM87HXBS & SM87LEDS: 3.8kg each (approx) Weight SM87HXBA & SM87LEDA: 2kg. each (approx) IP66 & IP67 Ingress protection Entries Up to 4 x M20 / M25 ISO or 1/2" / 3/4" NPT SM87HXB 6 off suitable for up to 1.5mm<sup>2</sup> cable **Terminals** 6 off suitable for up to 1.5mm<sup>2</sup> cable Relay initiate Initiation by telephone ringing tone or low voltage control signals Duty & tag labels optional Labels

#### General arrangement drawing (all dimensions in mm)





**Electrical ratings** 

	d.c.		a.c. 50/60Hz				
Voltage	24	48	110	120	220	240	254
Tube energy (Joules) SM87HXB	5	5	6	7	6	7	8
Current consumption SM87HXB	393	175	250	275	120	135	153
Current consumption SM87LED (mA)	165	85	N/A	N/A	N/A	N/A	N/A
Effective intensity (Cd)	29	29	32	39	32	39	44
Peak intensity (Cd)	22213	22213	25061	30187	25061	30187	34174

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

#### LED light output - steady or flashing (customer selectable)

	Red	Blue	Amber	Green
Total LED output (candela)	192	64	64	17

LED/lens colour: red, blue, green, amber, yellow (not LED) or clear Flash rate: 90fpm as standard, other flash rates available on request

#### 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

