# **CROUSE-HINDS**

LD15 range high intensity LED beacon

Ex d, weatherproof



## Overview

These certified LED 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 LD15 incorporates a low maintenance, innovative LED array, which has a life of up to 54,000

The low current consumption design allows an energy efficient solution without compromising light output. Units can be painted to customers specification and supplied with identification labels.

## **Features**

- Zone 1, 2, 21 & 22
- Ex d IICT6/T5
- 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 T6/T5 - Ordinary locations: visual-signal

- device CCC Ex certified
- INMETRO certified
- IP66 & 67
- SIL2 certified

- Certified temperature -55°C to
- Corrosion-free GRP
- Optional stainless steel backstrap
- Various lens colours
- Optional cast aluminium or stainless steel wire guard
- Up to 3 x M20 or 3 x M25 entries
- 5 user selectable functions:
  - 60 fpm
  - 80 fpm
  - 120 fpm
  - Double flash
  - Steady
- Remote and local function selection











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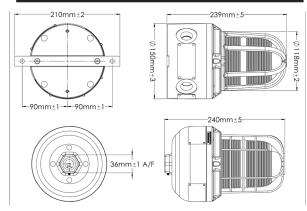
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Certifications	
ATEX Ex d	Cert. no. Baseefa 04ATEX0009X Certified to: EN60079-0, EN60079-1, EN60079-28, EN60079-31 Ex II 2GD Ex db op is IICT5/T6 Gb, Ex tb op is IIICT85°C/T100°C Db
IECEx Ex d	Cert. no. IECEx BAS 05.0048X Certified to: IEC60079-0, IEC60079-1, IEC60079-28, IEC60079-31 Ex db op is IICT5/T6 Gb. Ex tb op is IIICT85°C/T100°C Db
INMETRO Ex d	Ex d IIC T5/T6 Gb, Ex tb IIIC T85°C/T100°C Db
CCC Ex	Ex db IIC T5/T6 Gb, Ex tb IIIC T85°C/T100°C Db
GB (GuoBiao)	Ex db op is IICT5/T6 Gb, Ex tb op is IIICT85°C/T100°C Db
UL Haz Locs	Cert. no. E187894
UL Ord Locs/Marine	Cert. no. S8128. Visual signal device
ULC	Cert. no. E187894
UL certified	Class I, Div. 2, Groups A, B, C & D Class II, Div. 2, Groups F & G Class I, Zone 1, AEx d IIC T5/T6
SIL	SIL2 certified to IEC61508. Cert number FSP 13005

Specifications							
Material	Lens: borosilicate glass Backstrap: stainless steel Wire guard (optional): stai	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	Natural black or painted to customer specification					
Voltage	12V d.c. to 48V d.c, 110V	12V d.c. to 48V d.c, 110V a.c. to 254V a.c					
LED life	Up to 54,000 hours						
Function	Steady, 60, 80 & 120 fpm	Steady, 60, 80 & 120 fpm, double flash					
Certified temp	-55°C to +70°C (T5) -55°C to +55°C (T6)						
Weight	Pipe mount: 3.1kg Direct	Pipe mount: 3.1kg Direct mount: 3.5kg					
Ingress protection	IP66 & IP67	IP66 & IP67					
Entries	ATEX version:  UL version:  Dual UL/ATEX, UL/IECEx:	Standard: 2 x M20 Optional: 1 x M20/M25, 3 x M20/M25 entries Standard pipe: ¾" NPT Standard direct: 2 x ¾" NPT Optional direct: 1 x ½"/¾" NPT or 3 x ½"/¾" Standard direct: 2 x ¾" NPT					
Terminals	Direct mount: 12 x 2.5mn Pipe mount: 8 x 14AWG	Direct mount: 12 x 2.5mm²/14AWG Pipe mount: 8 x 14AWG					
Labels	Tag/duty optional						

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



#### Electrical:

Naminal vales as	d.c.			a.c. (50Hz*)				
Nominal voltage	12	24	48	110	120	230	240	254
Average current steady (mA)	430	220	120	70	70	40	40	40
Average current 60fpm (mA)	880	420	220	90	90	50	50	50
Average current 80fpm (mA)	880	420	220	90	90	50	50	50
Average current 120fpm (mA)	880	420	220	90	90	50	50	50
Average current double (mA)	710	340	180	40	40	30	30	30

<sup>\*</sup>For 60Hz please refer to the US datasheet

#### Typical light output (effective Cd) (no guard)

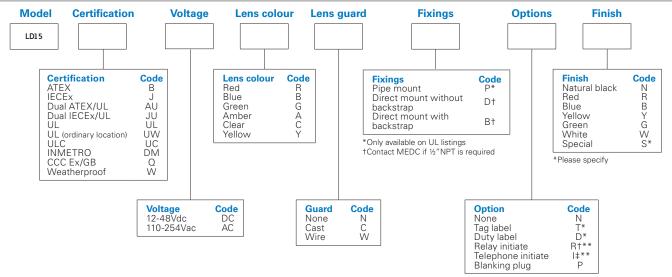
Colour	Red	Blue	Green	Amber	Clear	Yellow
60 fpm	61	24	86	55	128	122
80 fpm	55	22	78	49	117	112
120 fpm	47	19	66	42	100	95
Steady*	41	17	59	39	86	82

<sup>\*</sup>Not available ULC

NPT

### 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



<sup>\*\*</sup>Not available on SIL