

# LD15 high intensity LED strobe range

Hazardous locations, ordinary locations



## Overview

These certified LED strobes 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 hours. 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

- 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 T5/T6
  - Ordinary locations: visual-signal device
- ULC certified to Canadian Safety Standards
- ATEX certified Ex II 2GD
- IECEx certified Gb, Db
- NEMA 4X and 6. IP66 & 67
- SIL 1 certified
- Certified temperature:
  - 67°F to +158°F
  - 55°C to +70°C
- Corrosion-free GRP
- Optional stainless steel backstrap
- Various lens colours
- Optional cast aluminium or wire stainless steel guard
- Up to 3 x ½" or up to 3 x ¾" NPT
- 5 user selectable functions:
  - 60 fpm
  - 80 fpm
  - 120 fpm
  - Double flash
  - Steady
- Remote and local function selection



**THORNE &  
DERRICK**  
INTERNATIONAL

**Thorne & Derrick**  
+44 (0) 191 410 4292  
www.heatingandprocess.com

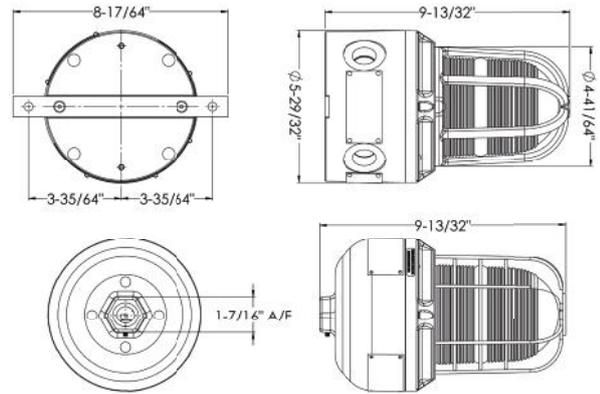
## Certifications

<b>UL Haz Locs</b>	Cert. no. E187894
<b>UL Ord Locs/Marine</b>	Cert. no. E187894 visual signal device
<b>ULC</b>	Cert. no. E187894
<b>UL certified</b>	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
<b>SIL</b>	DC: SIL1 certification to IEC61508. Cert. No. Sira FSP 13005 AC: SIL1 certification to IEC61508. Cert. No. 20151123-4787006958

## Specifications

<b>Material</b>	Body: glass reinforced polyester Lens: borosilicate glass Backstrap: stainless steel 316 Wire guard (optional): stainless steel wire Cast guard (optional): aluminium LM25M
<b>Finish</b>	Natural black or painted to customer specification
<b>Voltage</b>	12V d.c. to 48V d.c., 110V a.c. to 254V a.c.
<b>LED Life</b>	Up to 54,000 hours
<b>Function</b>	Steady, 60, 80 & 120 fpm, double flash
<b>Certified temp</b>	-67°F to +131°F (-55°C to +55°C) T6 -67°F to +158°F (-55°C to +70°C) T5
<b>Weight</b>	Pipe mount: 6.8lb (3.1kg) direct mount: 7.7lb (3.5kg)
<b>Ingress protection</b>	NEMA 4X & 6, IP66 & IP67
<b>Entries</b>	Standard pipe: ¾" NPT Standard direct: 2 x ¾" NPT Optional direct: 1 x ½"/¾" NPT or 3 x ½"/¾" NPT Contact sales office to order optional entries
<b>Terminals</b>	Direct mount: 12 x 14AWG. Pipe mount: 8 x 14AWG
<b>Labels</b>	Tag/duty optional

## General arrangement drawing (all dimensions in inches)



## Electrical ratings

	d.c.			a.c. (60Hz*)			
	12	24	48	110	120	230	240
<b>Nominal voltage</b>	12	24	48	110	120	230	240
Current (mA) - steady	430	220	120	90	80	50	50
Current (mA) - 60/80/120fpm	880	420	220	100	100	60	60

\* For 50Hz please refer to the worldwide 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
DC: ULC* 60/80/120fpm	25	5	14	18	48	32
AC: ULC* 60/80/120fpm	12	6	13	8	68	37

\*Tested to ULC-S526-07 requirements. Less than 15cd is not suitable for public mode.

†Not available ULC

## 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	Lens colour	Lens Guard	Fixings	Options	Finish																																																																								
LD15																																																																															
	<table border="1"> <thead> <tr> <th>Certification</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>UL</td> <td>UL</td> </tr> <tr> <td>UL(ordinary locations)</td> <td>UW</td> </tr> <tr> <td>ULC</td> <td>UC</td> </tr> </tbody> </table>	Certification	Code	UL	UL	UL(ordinary locations)	UW	ULC	UC	<table border="1"> <thead> <tr> <th>Voltage</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>12-48Vdc</td> <td>DC</td> </tr> <tr> <td>110-254Vac</td> <td>AC</td> </tr> </tbody> </table>	Voltage	Code	12-48Vdc	DC	110-254Vac	AC	<table border="1"> <thead> <tr> <th>Lens colour</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>Red</td> <td>R</td> </tr> <tr> <td>Blue</td> <td>B</td> </tr> <tr> <td>Green</td> <td>G</td> </tr> <tr> <td>Amber</td> <td>A</td> </tr> <tr> <td>Clear</td> <td>C</td> </tr> <tr> <td>Yellow</td> <td>Y</td> </tr> </tbody> </table>	Lens colour	Code	Red	R	Blue	B	Green	G	Amber	A	Clear	C	Yellow	Y	<table border="1"> <thead> <tr> <th>Guard</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>None</td> <td>N</td> </tr> <tr> <td>Cast</td> <td>C</td> </tr> <tr> <td>Wire</td> <td>W</td> </tr> </tbody> </table>	Guard	Code	None	N	Cast	C	Wire	W	<table border="1"> <thead> <tr> <th>Fixings</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>Pipe mount</td> <td>P*</td> </tr> <tr> <td>Direct mount without backstrap</td> <td>D*</td> </tr> <tr> <td>Direct mount with backstrap</td> <td>B*</td> </tr> </tbody> </table> <p>*Contact MEDC if ½" NPT is required</p>	Fixings	Code	Pipe mount	P*	Direct mount without backstrap	D*	Direct mount with backstrap	B*	<table border="1"> <thead> <tr> <th>Option</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>None</td> <td>N</td> </tr> <tr> <td>Tag label</td> <td>T*</td> </tr> <tr> <td>Duty label</td> <td>D*</td> </tr> <tr> <td>Relay initiate</td> <td>R†</td> </tr> <tr> <td>Blanking plug</td> <td>P</td> </tr> </tbody> </table> <p>* Please specify Please note for UL/ULC units, it is not possible to select both Tag and Duty labels † Suitable for 24Vdc initiate supplies only. Not available on SIL</p>	Option	Code	None	N	Tag label	T*	Duty label	D*	Relay initiate	R†	Blanking plug	P	<table border="1"> <thead> <tr> <th>Finish</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>Natural black</td> <td>N</td> </tr> <tr> <td>Red</td> <td>R</td> </tr> <tr> <td>Blue</td> <td>B</td> </tr> <tr> <td>Yellow</td> <td>Y</td> </tr> <tr> <td>Green</td> <td>G</td> </tr> <tr> <td>White</td> <td>W</td> </tr> <tr> <td>Special</td> <td>S*</td> </tr> </tbody> </table> <p>*Please specify</p>	Finish	Code	Natural black	N	Red	R	Blue	B	Yellow	Y	Green	G	White	W	Special	S*
Certification	Code																																																																														
UL	UL																																																																														
UL(ordinary locations)	UW																																																																														
ULC	UC																																																																														
Voltage	Code																																																																														
12-48Vdc	DC																																																																														
110-254Vac	AC																																																																														
Lens colour	Code																																																																														
Red	R																																																																														
Blue	B																																																																														
Green	G																																																																														
Amber	A																																																																														
Clear	C																																																																														
Yellow	Y																																																																														
Guard	Code																																																																														
None	N																																																																														
Cast	C																																																																														
Wire	W																																																																														
Fixings	Code																																																																														
Pipe mount	P*																																																																														
Direct mount without backstrap	D*																																																																														
Direct mount with backstrap	B*																																																																														
Option	Code																																																																														
None	N																																																																														
Tag label	T*																																																																														
Duty label	D*																																																																														
Relay initiate	R†																																																																														
Blanking plug	P																																																																														
Finish	Code																																																																														
Natural black	N																																																																														
Red	R																																																																														
Blue	B																																																																														
Yellow	Y																																																																														
Green	G																																																																														
White	W																																																																														
Special	S*																																																																														



**THORNE & DERRICK**  
INTERNATIONAL  
Thorne & Derrick  
+44 (0) 191 410 4292  
www.heatingandprocess.com