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.
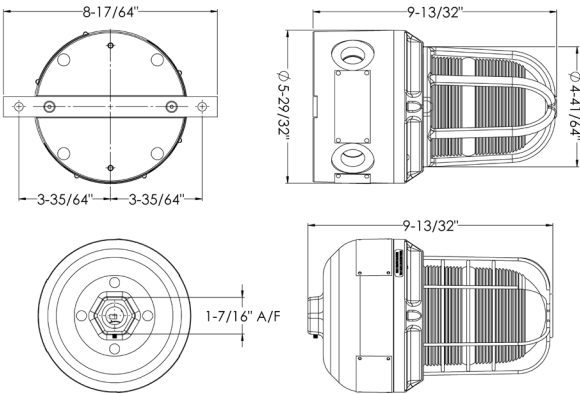
Features

- 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 2 certified
- Certified temperature:
    - -67ºF to +158ºF
    - -55ºC to +70ºC

- 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

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Certifications

UL Haz Locs	Cert. no. E187894
UL Ord Locs/Marine	Cert. no. E187894 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	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 customer specification
Voltage	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, double flash
Certified temp	-67°F to +131°F (-55°C to +55°C) T6 -67°F to +158°F (-55°C to +70°C) T5
Weight	Pipe mount: 6.8lb (3.1kg) direct mount: 7.7lb (3.5kg)
Ingress protection	NEMA 4X & 6, IP66 & IP67
Entries	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
Terminals	Direct mount: 12 x 14AWG. Pipe mount: 8 x 14AWG
Labels	Tag/duty optional

Electrical ratings

	d.c.			a.c. (60Hz*)			
Nominal voltage	**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

General arrangement drawing (all dimensions in inches)

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							

Certification	Code
UL	UL
UL(ordinary locations)	UW
ULC	UC

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

Guard	Code
None	N
Cast	C
Wire	W

Option	Code
None	N
Tag label	T*
Duty label	D*
Relay initiate	R†
Blanking plug	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

Voltage	Code
12-48Vdc	DC
110-254Vac	AC

Fixings	Code
Pipe mount	P*
Direct mount without backstrap	D*
Direct mount with backstrap	B*

*Contact MEDC if ½″ NPT is required

Finish	Code
Natural black	N
Red	R
Blue	B
Yellow	Y
Green	G
White	W
Special	S*

*Please specify