

Ex d, Weatherproof



Introduction

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 available 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.

Authorized Distributor:
GasDetectorsUSA.com
Houston, TX USA
832-615-3588
sales@GasDetectorsUSA.com

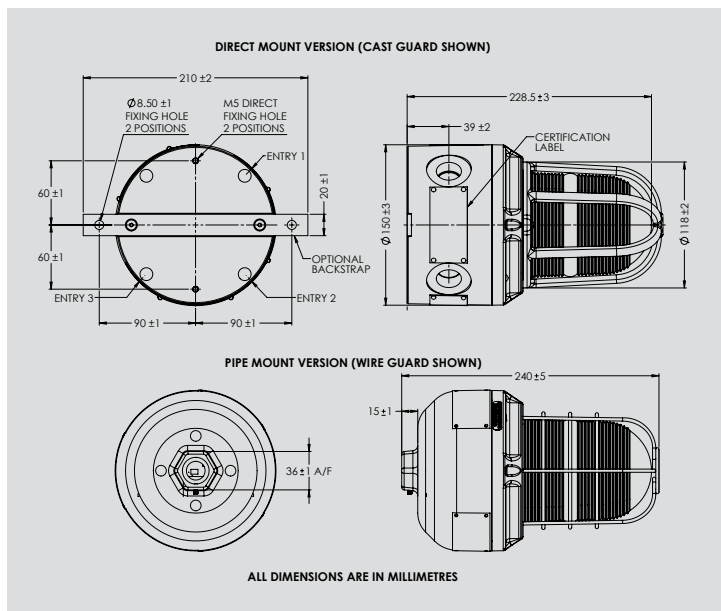
Features

- Zone 1, 2, 21 & 22.
- Ex d IIC T6/T5.
- ATEX Certified Ex II 2GD.
- IECEx Certified Gb, Db.
- UL listed 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 IIB & IIC* T4/T5/T6.
 - Ordinary locations: Visual-Signal Device
- *Not applicable for Canada*
- CUTR Certified.
- IP66 & 67.
- SIL 1 Certified
- Certified temperature -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 M20 or 3 x M25 entries.
- 5 user selectable functions:
 - 60 fpm
 - 80 fpm
 - 120 fpm
 - Double Flash
 - Steady
- Remote and local function selection.



Certification and Specification

ATEX Ex d:	Cert. no. Baseefa 04ATEX0009X.w Certified to: EN60079-0, EN60079-1, EN60079-31. Ex II 2GD, Ex d IIC T5/T6 Gb, Ex tb IIIC T85°C/T100°C Db.
IECEX Ex d:	Cert. no. IECEX BAS 05.0048X. Certified to: IEC60079-0, IEC60079-1, IEC60079-31. Ex d IIC T5/T6 Gb, Ex tb IIIC T85°C/T100°C Db.
CUTR Ex d:	1Ex d IIC T5/T6 Gb, Ex tb IIIC T85°C/T100°C Db. Russian Fire Alarm approved.
Inmetro Ex d:	Ex d IIC T5/T6 Gb.
UL Haz Locs:	Listing no. E187894.
UL Ord Locs/Marine:	Listing no. S8128. Visual Signal Device.
ULC:	Listing no. CE133
UL listed for use in USA:	Class I, Div. 2, Groups A, B, C & D. Class II, Div. 2, Groups F & G. Class I, Zone 1, Aex d IIB & IIC T4/T5/T6.
UL/ULC listed for use in Canada:	Class I, Div. 2, Groups C & D. Class II, Div. 2, Groups F & G. Class I, Zone 1, Ex d IIB T4/T5/T6.
SIL 1:	SIL1 certification to IEC61508. Certification No. FSP 13005.
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.
LED Life:	Up to 54,000 hours.
Function:	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 mount: 3.5kg
Ingress Protection:	IP66 & IP67.
Entries:	ATEX version: Standard: 2 x M20 Optional: 1 x M20/M25, 3 x M20/M25 entries. UL version: Standard Pipe: 3/4" NPT Standard Direct: 2 x 3/4" NPT Optional Pipe: 1/2" NPT Optional Direct: 1 x 1/2"/3/4" NPT or 3 x 1/2"/3/4" NPT Contact Sales Office to order optional entries
Terminals:	Direct mount: 12 x 2.5mm ² /14AWG. Pipe mount: 8 x 14AWG.
Labels:	Tag/Duty optional.



Electrical Ratings:

Voltage	d.c.		
	12	24	48
Current (mA) - steady	423	211	113
Current (mA) - 60fpm	878	419	214
Inrush Current (mA)	132	286	702
Inrush Duration (ms)	258	114	61

Typical Light Output (effective Cd):

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

*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	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>																																																																																		
	<table border="1"> <thead> <tr> <th>Certification</th> <th>Code</th> </tr> </thead> <tbody> <tr><td>ATEX</td><td>B</td></tr> <tr><td>IECEX</td><td>J</td></tr> <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> <tr><td>CUTR</td><td>G</td></tr> <tr><td>Inmetro</td><td>DM</td></tr> <tr><td>Weatherproof</td><td>W</td></tr> </tbody> </table>	Certification	Code	ATEX	B	IECEX	J	UL	UL	UL (ordinary locations)	UW	ULC	UC	CUTR	G	Inmetro	DM	Weatherproof	W	<table border="1"> <thead> <tr> <th>Voltage</th> <th>Code</th> </tr> </thead> <tbody> <tr><td>12-48Vd.c.</td><td>048</td></tr> </tbody> </table>	Voltage	Code	12-48Vd.c.	048	<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>	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>Telephone initiate</td><td>I†**</td></tr> <tr><td>Blanking Plug</td><td>P</td></tr> </tbody> </table> <p>* Please specify. UL/ULC maximum of one label. † Suitable for 24Vdc initiate supplies only. ‡ Not available on UL/UW/ULC. ** Not available on SIL</p>	Option	Code	None	N	Tag Label	T*	Duty Label	D*	Relay initiate	R†**	Telephone initiate	I†**	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																																																																																								
ATEX	B																																																																																								
IECEX	J																																																																																								
UL	UL																																																																																								
UL (ordinary locations)	UW																																																																																								
ULC	UC																																																																																								
CUTR	G																																																																																								
Inmetro	DM																																																																																								
Weatherproof	W																																																																																								
Voltage	Code																																																																																								
12-48Vd.c.	048																																																																																								
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†**																																																																																								
Telephone initiate	I†**																																																																																								
Blanking Plug	P																																																																																								
Finish	Code																																																																																								
Natural Black	N																																																																																								
Red	R																																																																																								
Blue	B																																																																																								
Yellow	Y																																																																																								
Green	G																																																																																								
White	W																																																																																								
Special	S*																																																																																								

All 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.



6DS133/E 01/15