

# LDB, LDG and LDR Series Wellglass Luminaires

Flameproof. High Pressure High Pressure Sodium, Mercury, Metal Halide, Mixed, Incandescent, Induction

Zone 1 and 2 - 21 and 22  
Gas (G) and Dust (D)

## Applications

- For use in hazardous locations such as plants where plastics, paints, thinners and petrochemicals are manufactured.
- Ideal for street lighting on refinery sites or oil depots and for tank lighting purposes.

## Features

- Compensated power supply.
- Power factor  $\geq 0.9$
- Flat joint for IIB version, threaded joint for IIC version.
- E40 lamp holder with lock thread.
- High temperature internal wiring.
- Operates in any position subject to lamp type.
- Easy and efficient wiring due to separate Ex e terminal box with wiring onto two captive terminals capacity 6 mm<sup>2</sup> and two internal earth terminals capacity 6 mm<sup>2</sup>.
- External earth terminal capacity 4 mm<sup>2</sup>.
- 2 x M20 clearance holes through-wire cable entries supplied with one Ex e unarmored cable gland — sealing diameter 6.5 to 14.5 mm — and one blanking plug and two M20 locknuts.

## Standard Materials

- Body and bezel: gray painted marine grade aluminum alloy
- Internal reflector: aluminum
- External reflector: white painted zinc plated steel

## Certifications and Compliances

### ◆ ATEX/IECEX Certification

- **Certification Type: LTd (Model LT2d)**
  - Gas: Zone 1 - 2
    - Conforming to ATEX 94/9/CE:  $\text{Ex II 2 G}$
    - Type of Protection: Ex de IIB (LDB series); Ex de IIC (LDG and LDR series)
    - Temperature Class: *See Table on following page*
  - Dust: Zone 21 - 22
    - Conforming to ATEX 94/9/CE:  $\text{Ex II 2 D}$
    - Type of Protection: Ex tD A21
    - Surface Temperature: *See Table on following page*
  - Ambient Temperature: -40 °C to +55 °C
  - CE Declaration of Conformity: 50246
  - ATEX Certificate: LCIE 02 ATEX 6165
  - IECEx Certificate: IECEx LCI Ex 04.0019
  - Index of Protection according EN/IEC 60529: IP66/67
  - Impact Resistance (shock): IK08

### ◆ EURASEC Certification

- EURASEC N° TC RU C-FR.Г505.B.00912



LDB Version



LDB Version with Guard

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Gas (G) and Dust (D)

Supplied with 1 x M20 Ex e cable gland in polyamide— 6.5 to 14.5 mm diameter — and 1 x M20 blanking plug. Lamps are not supplied, except for Induction version.

Lamp Wattages	Voltage (+/- 10%)	Lamp Type		Weight kg	Volume dm <sup>3</sup>	Catalog Number
		Ellipsoidal	Tubular			
<b>Flameproof Wellglass Luminaires for Hazardous Areas – Ex de IIB – LDB Series</b>						
<b>Electro Magnetic Induction ②</b>						
85 W ①	230/240 Vac, 50/60 Hz	—	—	22.0	86.7	LDBQ85AG2BJ
<b>High Pressure Sodium</b>						
100 W ①④	230/240 Vac, 50 Hz	X	X	22.0	86.7	LDL10AG2XJ
150 W ①④	230/240 Vac, 50 Hz	X	X	22.5	86.7	LDL15AG2XJ
250 W ①	230/240 Vac, 50 Hz	X	X	22.5	86.7	LDL25AG2XJ
<b>Metal Halide</b>						
250 W ①	230/240 Vac, 50 Hz	X	X	22.5	86.7	LDBH25AG2XJ
<b>Mercury Vapor</b>						
250 W ①	230/240 Vac, 50 Hz	—	—	22.5	86.7	LDBM25AG2XJ
<b>Incandescent</b>						
300 W to 500 W ③	—	—	—	19.0	86.7	LDBI30AG2
<b>Flameproof Wellglass Luminaires for Hazardous Areas – Ex de IIC – LDG series</b>						
<b>Electro Magnetic Induction ②</b>						
85 W (1)	230/240 Vac, 50/60 Hz	—	—	22.0	86.7	LDGQ85AG2BJ
<b>High Pressure Sodium</b>						
100 W ①	230/240 Vac, 50 Hz	X	X	22.0	86.7	LDGL10AG2XJ
150 W ①	230/240 Vac, 50 Hz	X	X	22.5	86.7	LDGL15AG2XJ
250 W ①	230/240 Vac, 50 Hz	X	X	22.5	86.7	LDGL25AG2XJ
<b>Metal Halide</b>						
250 W ①	230/240 Vac, 50 Hz	X	X	22.5	86.7	LDGH25AG2XJ
<b>Mercury Vapor</b>						
250 W ①	230/240 Vac, 50 Hz	—	—	22.5	86.7	LDGM25AG2XJ
<b>Incandescent</b>						
300 W to 500 W ③	—	—	—	19.0	86.7	LDGI30AG2
<b>Flameproof Wellglass Luminaires for Hazardous Areas – Ex de IIC – LDR Series</b>						
<b>High Pressure Sodium</b>						
400 W ①	220/230/240 Vac, 50 Hz	X	X	31.0	144	LDRL40AG2XJ
<b>Metal Halide</b>						
400 W ①	220/230/240 Vac, 50 Hz	X	X	31.0	144	LDRH40AG2XJ

① Ballast supplied.

② Service life 60,000 hours.

③ 250 W mixed lamps can be used.

④ Also available in LDM Series