

# ATX™ LDM Series Wellglass Luminaires

Flameproof. HID, Compact Fluorescent, Halogen, Incandescent, Mixed

ATEX/IECEX:  
Zone 1 and 2 – 21 and 22  
⊕ II 2 GD  
IP66/67 – IK08

## 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

- E27 lamp holder.
- High temperature internal wiring.
- Threaded flame path.
- Stainless steel fastenings.
- Closed by screwing on bezel.
- Operates in any position.
- Easy and efficient wiring due to separate Ex e terminal box with wiring onto two captive terminals capacity  $2 \times 6 \text{ mm}^2$  ( $2 \times 0.009 \text{ in}^2$ ).
- External earth terminal capacity  $4 \text{ mm}^2$  ( $0.006 \text{ in}^2$ ).
- $2 \times 20 \text{ mm}$  ( $2 \times 0.79 \text{ in}$ ) clearance holes through-wire cable entries supplied with one Ex e unarmored cable gland — sealing diameter 6.5 to 14.5 mm (0.26 to 58 in) — and one blanking plug and two M20 locknuts.

## Standard Materials

- Body and bezel: gray painted marine grade aluminum alloy
- Internal reflector: aluminum

## ATEX/IECEX Certifications and Compliances

- Certification Type: LTd (Model LT1d)
  - Gas: Zone 1 - 2
    - Conforming to ATEX 94/9/CE: ⊕ II 2 G
    - Type of Protection: Ex de IIC
    - Temperature Class: See *T Rating for Gas Table*
  - Dust: Zone 21 - 22
    - Conforming to ATEX 94/9/CE: ⊕ II 2 D
    - Type of Protection: Ex tD A21
    - Surface Temperature: See *Surface Temperature for Dust Table*
- Ambient Temperature:  $-40 \text{ }^\circ\text{C}$  to  $+55 \text{ }^\circ\text{C}$  ( $-40 \text{ }^\circ\text{F}$  to  $+131 \text{ }^\circ\text{F}$ )
- 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



LDM Version



LDM Version with Guard

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### T Rating for Gas

Lamp Type and Wattage	Ambient Temperature					
	Lighting Downward			Lighting Upward		
	Ta = +40 °C (+104 °F)	Ta = +50 °C (+122 °F)	Ta = +55 °C (+131 °F)	Ta = +40 °C (+104 °F)	Ta = +50 °C (+122 °F)	Ta = +55 °C (+131 °F)
18 W Compact Fluorescent	T6	T6	T6	T6	T5	T5
150 W Halogen	T4	T4	T4	T4	T3	T3
70 W High Pressure Sodium	T5	T4	T4	T4	T4	T4
100 W High Pressure Sodium	T3	T3	T3	T3	T3	T3
150 W High Pressure Sodium	T3	T3	T3	T3	T3	T3
80 W Mercury ⑤	T4	T4	T4	T4	T4	T4
125 W Mercury ⑤	T3	T3	T3	T3	T3	T3
160 W Mixed	T3	T3	T3	T3	T3	T3
100 and 200 W Incandescent	T4	T3	T3	T3	T3	T3

### Surface Temperature for Dust

Lamp Type and Wattage	Ambient Temperature — Ta = +55 °C (+131 °F)			
	Lighting Downward		Lighting Upward	
	°C	°F	°C	°F
18 W Compact Fluorescent	+80 °C	+176 °F	+95 °C	+203 °F
150 W Halogen	+130 °C	+266 °F	+195 °C	+383 °F
70 W High Pressure Sodium	+130 °C	+266 °F	+130 °C	+266 °F
100 W High Pressure Sodium	+184 °C	+363 °F	+184 °C	+363 °F
150 W High Pressure Sodium	+184 °C	+363 °F	+184 °C	+363 °F
80 W Mercury ⑤	+130 °C	+266 °F	+130 °C	+266 °F
125 W Mercury ⑤	+195 °C	+383 °F	+195 °C	+383 °F
160 W Mixed	+195 °C	+383 °F	+195 °C	+383 °F
100 and 200 W Incandescent	+195 °C	+383 °F	+195 °C	+383 °F

### Flameproof Wellglass Luminaires for Hazardous Areas – Ex de IIC – LDM Series

Supplied with 1 x M20 Ex e cable gland diameter 6.5 to 14.5 mm (0.26 to 58 in) and 1 x M20 blanking plug. Lamps are not supplied.

Lamp Wattages	Voltage (+/- 10%)	Lamp Type ④		Weight kg (lb)	Volume dm³ (in³)	Catalog Number
		Ellipsoidal	Tubular			
<b>High Pressure Sodium</b>						
70 W ①②	230/240 Vac, 50 Hz	X	X	9 (19.84)	30 (1831)	LDML70AG1XJ
150 W ①	230/240 Vac, 50 Hz	X	X	9 (19.84)	30 (1831)	LDML15AG1XJ
<b>Metal Halide</b>						
150 W ①	230/240 Vac, 50 Hz	X	X	9 (19.84)	30 (1831)	LDMH15AG1XJ
<b>Mercury Vapor</b>						
80 W ①	230/240 Vac, 50 Hz	–	–	9 (19.84)	30 (1831)	LDMM80AG1XJ
125 W ①	230/240 Vac, 50 Hz	–	–	9 (19.84)	30 (1831)	LDMM12AG1XJ
<b>Compact Fluorescent</b>						
18 W	–	–	–	7.5 (16.53)	30 (1831)	LDMF18AG1
<b>Incandescent</b>						
200 W max. ③	–	–	–	7.5 (16.53)	30 (1831)	LDMI20AG1

① Ballast supplied.

② For lamp with built-in ignitor.

③ 150 W halogen or 160 W mixed lamps can be used.

④ Only with lamp operating in any position.

⑤ Mercury vapor and metal halide luminaires are not available for purchase within the United States. Please check with your countries governing legislation regarding allowable lamp types before ordering.