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

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

- E27 or E40 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 x 6 mm².
- External earth terminal capacity 4 mm².
- 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

Certifications and Compliances

ATEX/IECEx Certification

- 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 Table on following page
 - Dust: Zone 21 22
 - Conforming to ATEX 94/9/CE: 🗟 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.гб05.В.00912



LDM Version



LDM Version with Guard



Liahtina

WELLGALSS LUMINAIRES

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	Ambient Temperature						
	Lighting Downward			Lighting Upward			
Lamp Type and Wattage	Ta = +40 °C	Ta = +50 °C	Ta = +55 °C	Ta = +40 °C	Ta = +50 °C	Ta = +55 °C	
18 W Compact Fluorescent	Т6	T6	T6	T6	T5	T5	
150 W Halogen	Τ4	T4	T4	T4	Т3	Т3	
70 W High Pressure Sodium	T5	T4	T4	T4	T4	Τ4	
100 W High Pressure Sodium	Т3	Т3	Т3	T3	T3	Т3	
150 W High Pressure Sodium	Т3	Т3	Т3	T3	Т3	Т3	
80 W Mercury	T4	T4	T4	T4	T4	Τ4	
125 W Mercury	Т3	Т3	Т3	Т3	Т3	Т3	
160 W Mixed	Т3	Т3	Т3	Т3	Т3	Т3	
100 and 200 W Incandescent	Τ4	Т3	Т3	ТЗ	Т3	Т3	

	Ambient Temperature for Ta = $+55$ °C			
Lamp Type and Wattage	Lighting Downward	Lighting Upward		
18 W Compact Fluorescent	+80 °C	+95 °C		
150 W Halogen	+130 °C	+195 °C		
70 W High Pressure Sodium	+130 °C	+130 °C		
100 W High Pressure Sodium	+184 °C	+184 °C		
150 W High Pressure Sodium	+184 °C	+184 °C		
80 W Mercury	+130 °C	+130 °C		
125 W Mercury	+195 °C	+195 °C		
160 W Mixed	+195 °C	+195 °C		
100 and 200 W Incandescent	+195 °C	+195 °C		

Flameproof Wellglass Luminaires for Hazardous Areas – Ex de IIC – LDM Series Supplied with 1 x M20 Ex e cable gland in polyalmide diameter 6.5 to 14.5 mm and 1 x M20 blanking plug. Lamps are not supplied.

Lamp Wattages	Voltage (+/- 10%)	Lamp T Ellipsoidal	ype ④ Tubular	Weight kg	Volume dm ³	Catalog Number
High Pressure Sodi	um					
70 W 0 2	230/240 Vac, 50 Hz	Х	Х	9	30	LDML70AG1XJ
100 W ①	230/240 Vac, 50 Hz	Х	Х	9	30	LDML10AG1XJ
150 W ①	230/240 Vac, 50 Hz	Х	Х	9	30	LDML15AG1XJ
Metal Halide						
100 W ①	230/240 Vac, 50 Hz	Х	Х	9	30	LDMH10AG1XJ
150 W ①	230/240 Vac, 50 Hz	Х	Х	9	30	LDMH15AG1XJ
Mercury Vapor						
80 W ①	230/240 Vac, 50 Hz	-	_	9	30	LDMM80AG1XJ
125 W ①	230/240 Vac, 50 Hz	-	-	9	30	LDMM12AG1XJ
Compact Fluoresce	ent					
18 W	-	-	-	7.5	30	LDMF18AG1
Incandescent						
200 W max. 3	-	_	-	7.5	30	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.

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WELLGALSS LUMINAIRES

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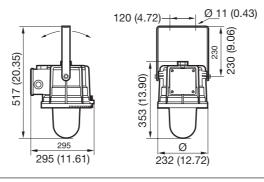
Zone 1 and 2 - 21 and 22 Gas (G) and Dust (D)

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Liahtina

Accessories					
	Description	Weight kg	Volume dm ³	Catalog Number	
Protective Guard	1				
	Zinc plated steel protective guard	0.4	9	LDPG1Z	
External Reflecte	pr				
	External white polyester reflector	3.2	97	LDER1P	
Hinged Bracket					
	Zinc plated steel hinged bracket for installation on flat surface	3.4	3	LDMHBZ	
Eyebolt					
\bigcirc	Zinc plated steel M10 eyebolt for suspension	0.4	0.2	LDRBM10Z	
Mounting Strap					
A CON	Gray painted aluminum	0.9	0.6	LDMSBA	

Dimensions in Millimeters (Inches) - LDM Version with Hinged Bracket



Shaded catalog numbers are normally stocked items. All other items are made to order.



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Photometr Polar curv	es for a 1000	Im flux, accord	ling to NF C 71-120.				
	essure Sodium	rding to NF C 7	1-121.	80 W Mercury Efficiency 46.89 NF C 71–121: 0.	6		
C	ANDELA DISTRIBUT	ΓΙΟΝ		C	ANDELA DISTRIBU	TION	
	90-270	0–180			90-270	0-180	_
0	195	195		0	158	158	-
5	179	179	150° 120°	5	154	154	150° 120°
10	166	166	105°	10	145	145	
15	151	151	90°	15	138	138	90°
20	149	149	75°	20	136	136	75°
25	153	153	60°	25	135	135	60°
30	156	156	$\Box \rightarrow X$	30	134	134	$\Box \mathcal{X} \mathcal{X}$
35	157	157	45°	35	133	133	45°
40	158	158	HX	40	133	133	
45	159	159		45	133	133	A
50	148	148	30°	50	125	125	30°
55	116	116	200	55	98	98	200
60	77	77	0° 15°	60	67	67	0° 15°
65	54	54		65	45	45	
70	37	37		70	31	31	
125 W Mercur Efficiency 48% NF C 71–121: 0.	-	ΓΙΟΝ		Efficiency 59.3% NF C 71–121: 0.			
	90-270	0–180			90–270	0–180	
0	147	147		0	19.72	19.72	_
5	143	143		5	18.82	17.47	
10	138	138		10	21.50	19.13	
15	133	133	150° 120°	15	25.63	23.75	150° 120° 105°
20	133	133	105°	20	32.78	30.06	1 X
25	136	136	90°	25	40.19	36.76	
30	138	138	75°	30	47.77	43.14	
35	137	137	60°	35	55.50	48.77	75
40	136	136	$T\mathcal{X}$	40	67.88	59.97	
45	134	134	45°	45	77.18	66.78	
50	126	126		50	81.09	71.22	
55	104	104	FTX	55	87.05	74.58	
60	74	74	30°	60	90.17	77.82	H Y M
65	50	50	200	65	92.66	79.70	45
70	32	32	0° 15°	70	94.77	81.16	0° 15° 30°
				75	95.68	82.02	
				00	06 17	00.11	

80 85

90

96.17

96.18

95.10

82.11 81.94

80.31

Lighting

