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 ≥ 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 mm² and two internal earth terminals capacity 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
- · 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: 🕾 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: [€] 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







LDB Version with Guard

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T Rating for Gas

	Ambient Temperature				
	Lighting [Downward	Lighting	Upward	
Lamp Type and Wattage	Ta = +40 °C	Ta = +55 °C	Ta = +40 °C	Ta = +55 °C	
35 W Induction	T6	T6	T6	T5	
100 W High Pressure Sodium	T6	T5	T5	T4	
150 W High Pressure Sodium	T6	T5	T4	T4	
250 W High Pressure Sodium	T4	T4	T3	T3	
250 W Metal Halide	T4	T4	T4	T3	
250 W Mercury	T4	T4	T3	Т3	
250 W Mixes	T4	T4	T3	T3	
300 W Incandescent	T5	T4	T3	T3	
500 W Incandescent	Т3	T3	T3	T2	
100 W High Pressure Sodium	T4	Т3	Not Available	Not Available	
400 W Metal Halide	T4	T3	Not Available	Not Available	

Surface Temperature for Dust

	Lighting Downward	Lighting Upward
Lamp Type and Wattage	°C	°C
85 W Induction	+80	+95
100 W High Pressure Sodium	+95	+130
150 W High Pressure Sodium	+95	+130
250 W High Pressure Sodium	+130	+195
250 W Metal Halide	+130	+195
250 W Mercury	+130	+195
250 W Mixes	+130	+195
300 W Incandescent	+130	+195
500 W Incandescent	+195	+290
400 W High Pressure Sodium	+134	Not Available
400 W Metal Halide	+134	Not Available

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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	Туре	Weight	Volume	Catalog
Lamp Wattages	Voltage (+/- 10%)	Ellipsoidal	Tubular	kg	dm³	Number
	Flameproof Well	glass Luminaires	for Hazardous	Areas – Ex de IIB	– LDB Series	
Electro Magnetic In	duction ②					
85 W ①	230/240 Vac, 50/60 Hz	_	_	22.0	86.7	LDBQ85AG2BJ
High Pressure Sodi	um					
100 W ①④	230/240 Vac, 50 Hz	Χ	Χ	22.0	86.7	LDBL10AG2XJ
150 W ①④	230/240 Vac, 50 Hz	Χ	Χ	22.5	86.7	LDBL15AG2XJ
250 W ①	230/240 Vac, 50 Hz	Χ	Χ	22.5	86.7	LDBL25AG2XJ
Metal Halide						
250 W ①	230/240 Vac, 50 Hz	Χ	Χ	22.5	86.7	LDBH25AG2XJ
Mercury Vapor						
250 W ①	230/240 Vac, 50 Hz	_	_	22.5	86.7	LDBM25AG2XJ
Incandescent						
300 W to 500 W ③	_	_	_	19.0	86.7	LDBI30AG2
	Flameproof Well	glass Luminaires	for Hazardous	Areas – Ex de IIC	– LDG series	
Electro Magnetic In	duction ②					
85 W (1)	230/240 Vac, 50/60 Hz	_	_	22.0	86.7	LDGQ85AG2BJ
High Pressure Sodi	um					
100 W ①	230/240 Vac, 50 Hz	Χ	Χ	22.0	86.7	LDGL10AG2XJ
150 W ①	230/240 Vac, 50 Hz	Χ	Χ	22.5	86.7	LDGL15AG2XJ
250 W ①	230/240 Vac, 50 Hz	Χ	Χ	22.5	86.7	LDGL25AG2XJ
Metal Halide						
250 W ①	230/240 Vac, 50 Hz	Χ	Χ	22.5	86.7	LDGH25AG2XJ
Mercury Vapor						
250 W ①	230/240 Vac, 50 Hz	_	_	22.5	86.7	LDGM25AG2XJ
Incandescent						
300 W to 500 W ③	_	_	_	19.0	86.7	LDGI30AG2
	Flameproof Well	glass Luminaires	for Hazardous	Areas – Ex de IIC	– LDR Series	
High Pressure Sodi	·	-				
400 W ①	220/230/240 Vac, 50 Hz	Χ	Χ	31.0	144	LDRL40AG2XJ
Metal Halide						
400 W ①	220/230/240 Vac, 50 Hz	Х	Х	31.0	144	LDRH40AG2XJ

① Ballast supplied.

Also available in LDM Series



② Service life 60,000 hours.

^{3 250} W mixed lamps can be used.

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

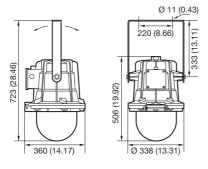
Zone 1 and 2 - 21 and 22 Gas (G) and Dust (D)

Δ	CC	20	en	rı	20
$\overline{}$	-	-3	JU		CJ

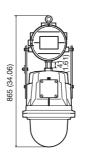
Accessories					
	Description	Weight kg	Volume dm³	Catalog Number	
Protective Guard					
	Zinc plated steel protective guard	1.2	27	LDPG2Z	
External Reflector					
	White painted steel	3.4	108	LDER2Z	
	White polyester	2.5	108	LDER2P	
Hinged Bracket — Zinc plated steel hinged bracket for installation on flat surface					
	For LDB or LDG Series	3.4	8	LDGHBZ	
	For LDR Series	3.4	8	LDRHBZ	
Eyebolt — Zinc plated steel eyebolt for suspension					
	M10 — For LDB or LDG Series	0.1	0.2	LDRBM10Z	
The state of the s	M16 — For LDR Series	0.1	0.2	LDRBM16Z	
Mounting Strap — Zir	nc plated steel mounting straps				
	For LDB or LDG Series	0.9	0.6	LDGSBZ	
	For LDR Series	0.9	0.6	LDRSBZ	

Dimensions in Millimeters (Inches)

LDB and LDG Series

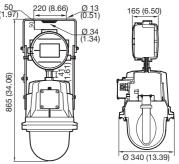


With Hinged Bracket



With Eyebolt

LDR Series



With Hinged Bracket

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Photometric Data

Polar curves for a 1000 lm flux, according to NF C 71-120. Luminaire symbol according to NF C 71-121.

85 W Induction Efficiency 85.9% NF C 71-121: 0.62 J + 0.24 T

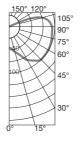
	CANDELA DISTRIBU	TION
	90-270	0-180
0	75	75
5	80	80
10	89	89
15	98	98
20	105	105
25	114	114
30	117	117
35	116	116
40	112	112
45	107	107
50	102	102
55	99	99
60	97	97
65	94	94
70	92	92

150 W High Pressure Sodium Efficiency 70.6% NF C 71-121: 0.50 J + 0.20 T

11 071-12	1. 0.50 0 + 0.20 1	
	CANDELA DISTRIBUT	ION
	90-270	0-180
0	33	33
5	36	36
10	42	42
15	48	48
20	55	55
25	62	62
30	70	70
35	78	78
40	84	84
45	87	87
50	89	89
55	88	88
60	88	88
65	87	87
70	87	87

250 W High Pressure Sodium Efficiency 79.3% NF C 71-121: 0.56 J + 0.23 T

	CANDELA DISTRIBU	TION
	90-270	0-180
0	40	40
5	43	43
10	49	49
15	57	57
20	64	64
25	72	72
30	80	80
35	89	89
40	95	95
45	97	97
50	98	98
55	97	97
60	96	96
65	95	95
70	94	94



500 W Incandescent Efficiency 98% NF C 71-121: 0.71 H + 0.28 T

CANDELA DISTRIBUTION					
	90-270	0-180			
0	147	147			
5	128	128			
10	133	133			
15	149	149			
20	159	159			
25	159	159			
30	173	173			
35	166	166			
40	157	157			
45	136	136			
50	120	120			
55	104	104			
60	99	99			
65	91	91			
70	92	92			

