Flameproof. Metal Halide, Sodium, Mercury Vapor, Halogen

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

Applications

- Designed for large area lighting in industrial outdoor and indoor hazardous areas.
- Ideal for use in Zones 1 and 2 and 21 and 22 in the oil and gas industry. In locations such as: refineries, pipelines, warehouses, offshore platforms and drilling rigs.

Features

- Gray epoxy painted light marine grade aluminum housing and door
- Fast and easy lamp replacement via threaded cover on the side of the fixture. The cover is fitted with a short safety chain.
- Lampholder can be easily field-adjustable for either a narrow or wide beam.
- Fixtures operate safely in high ambient temperatures up to +55 °C and in low ambient temperature up to -20 °C.
- Electrical components (ballast, ignitor and capacitor) are thermally separated from the lighting compartment with a bulkhead, providing extended life.
- Easy and efficient wiring due to separate Ex e terminal box with wiring onto 2 captive terminals 2 x 6 mm²; 2 internal earth terminals capacity 6 mm² and 1 external earth terminal capacity 4 mm².
- 2 x M20 clearance holes throughwire cable entries supplied with:
 - One Ex e unarmored cable gland sealing diameter 6.5 mm to 14.5 mm
 - One blanking plug
 - Two M20 locknuts
- For use with either tubular or ellipsoidal shape lamps. See ordering information for details.
- Choice of mounting with galvanized hinged bracket fixed mounting or tube/pole mounting with galvanized brackets.
- Thermoshock and impact-resistant glass factory sealed into the cover frame.
- Operates in any position.
- Reversible hinge allows for fixture access from either side.
- E40 or H3 lampholders for the 2 x 70 W Vac/Vdc halogen version.
- Internal symmetric reflector.

Standard Materials

- · Housing and door: copperfree marine-grade aluminum alloy
- Lens: toughened safety glass
- Reflector: bright highly polished aluminum
- Bolts: stainless steel bolt
- Cable gland and blanking plug: polyamide
- Locknut: nickel plated brass

Standard Finishes

• Housing and door: gray epoxy powder paint

Options

- · Other voltages, please contact your sales representative.
- Terminal block with 2 more terminals for wiring with 3 phases plus Neutral in 380/415 V (loop in/loop out wiring possible): add suffix -T at the end of the catalog number.
- Asymmetrical light distribution is available, add suffix -A to end of catalog number.
- Screwed-on overhead diffuser out of galvanized steel with black painting (see accessories).
- Screwed-on zinc-coated protection guard (see accessories).





Certifications and Compliances

♦ATEX/IECEx Certification

- Certification Type: PJd
 - Gas: Zone 1 and 2
 - Conforming to ATEX 94/9/CE: ᠍ II 2 G
 - Type of Protection: Ex de IIB
 - 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: -20 °C \leq to \leq +55 °C
 - CE Declaration of Conformity: 50207
 ATEX Certificate: LCIE 99 ATEX 6002
 - IECEx Certificate: IECEx LCI 04.0020
 - Index of Protection according EN/IEC 60529: IP66 (Type PB)
 - Impact Resistance (shock): IK10

♦EURASEC Certification

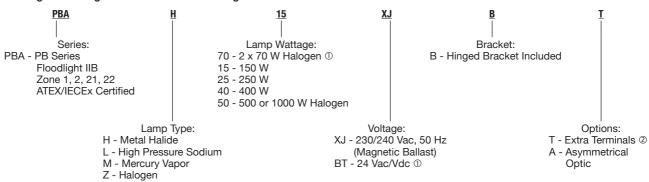
— EURASEC N° TC RU C-FR.гб05.B.00912

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

Order using catalog numbering guide below or select catalog number from the following pages.

Catalog Numbering Guide — PB Series Floodlights



T Rating (Gas) and Surface Temperature (Dust) Table

	ng to Ta	Dust		
Lamp Type and Wattage	+40 °C	+50 °C	+55 °C	Surface Temperature °C
2 x 70 W - H3 ①	T4	T4	T4	+130 °C
150 W High Pressure Sodium	T4	Т3	Т3	+145 °C
250 W High Pressure Sodium	Т3	Т3	Т3	+195 °C
250 W Metal Halide	Т3	Т3	Т3	+197 °C
250 W Mercury Vapor	Т3	Т3	Т3	+194 °C
400 W High Pressure Sodium	Т3	Т3	Т3	+189 °C
400 W Metal Halide	Т3	Т3	Т3	+193 °C
400 W Mercury Vapor	Т3	Т3	Т3	+195 °C
600 W High Pressure Sodium	T2	T2	T2	+257 °C
500 W Halogen	T2	T2	T2	+267 °C
1000 W Halogen	T1	T1	T1	+378 °C

① 2 x 70 W Halogen 24 Vac/Vdc.

② 3 Phase + Neutral.

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Ordering Information - IIB Versions

Floodlights supplied with hinged mounting bracket, 1 plug, 1 M20 cable gland - 6.5 mm to 14.5 mm diameter. Lamps are not included

1 loodiigitto supp	Ploodinghts supplied with hinged mounting bracket, 1 plug, 1 M20 cable gland — 6.5 min to 14.5 min diameter. Lamps are not included							
	Lamp Wattages	Lampholder	Voltage (+/–10%)	Lamp Ellipsoidal	Tubular	Weight kg	Volume dm³	Catalog Number ② ③
		sure Sodium	(',	•				
	150	E40	230/240 V, 50 Hz	х	Х	29.3	79.4	PBAL15XJB
	250	E40	230/240 V, 50 Hz	х	Х	30.3	79.4	PBAL25XJB
	400	E40	230/240 V, 50 Hz	_	х	31.8	79.4	PBAL40XJB
	Mercury Va	apor						
	250	E40	230/240 V, 50 Hz	х	х	29.3	79.4	PBAM25XJB
	400	E40	230/240 V, 50 Hz	_	х	29.8	79.4	PBAM40XJB
	Metal Halid	de						
Na.	250	E40	230/240 V, 50 Hz	х	Х	30.3	79.4	PBAH25XJB
	400	E40	230/240 V, 50 Hz	_	Х	31.8	79.4	PBAH40XJB
	Halogen							
	500/1000	E40	_	_	Х	26.3	79.4	PBAZ50B
	2 x 70	НЗ	24 Vac/Vdc, 50 Hz	_	-	27.3	79.4	PBAZ70BTB ①
Accessories								
								Catalog Number
Galvanized Ste	el Hinged B	rackets						
								РВНВG
Pole/Tube Mou	nting Galva	nized Steel F	Brackets					
A.			1-	1/4" to 1-1/2	2"			PNHC49G
	PNHC60G					PNHC60G		
Flat Surface Mounting Galvanized Steel Brackets								
								PNSBG
Screwed-on Ov	erhead Diff	user						
								PBGDG
Screwed-on Pr	otective Gua	ard						
								PBPGZ

① Supplied with 2 x 70 W H3 bulbs, 24 Vac/Vdc.

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



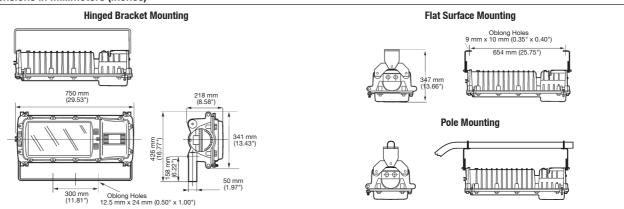
② Terminal block with 2 more terminals for wiring with 3 phases plus Neutral in 380/415 V: add suffix -T at the end of the catalog number.

③ Asymmetrical light distribution is available, add suffix -A to end of catalog number.

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Dimensions in Millimeters (Inches)

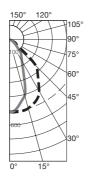


Photometrics

Polar curves for a 1000 lm flux, according to NF C 71-120

Luminaire symbol according to NF C 71-121

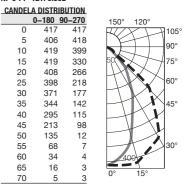
Narrow beam Metal Halide 250 W Efficiency 68.3% NF C 71–121: 0.68B							
	CANDELA DISTRIBUTION						
0	180 9	0-270	15				
0	505	505	$\overline{\mathcal{A}}$				
5	515	499	`				
10	512	469	1				
15	501	403	100				
20	476	312	\Box				
25	453	248	- '				
30	427	190					
35	394	146	-				
40	368	117	4				





CHINDLE	UISTIND	UTION	
(0-180 90	0-270	150° 120°
0	217	217	W/X \ 105°
5	210	219	90°
10	218	231	90
15	223	205	50 75°
20	238	193	
25	255	148	60°
30	266	132	
35	263	130	45°
40	244	116	250
45	201	104	
50	136	37	
55	85	15	30°
60	51	8	
65	28	6	0° 15°
70	5	4	0° 15°

Narrow beam Halogen 1000 W Efficiency 59.2% NF C 71-121: 0.59B



Wide beam Metal Halide 250 W Efficiency 67.9% NF C 71-121: 0.68C

290

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55

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12

CANDEL	A DISTRIE		
	0-180 9		150° 120°
0	301	301	105
5	303	318	90°
10	299	342	90
15	294	387	75°
20	287	382	
25	286	306	60°
30	271	237	
35	231	208	400 45°
40	172	186	L+1/
45	133	140	
50	83	104	
55	48	18	30°
60	34	8	
65	23	6	00 150
70	6	6	0° 15°

Wide beam Metal Halide 400 W ① Efficiency 46.7% NF C 71-121: 0.46C

0-180 90-270 0 105 105 5 104 106 10 108 130 15 124 165 20 148 177 25 167 183 30 165 147 35 142 127 40 116 113 45 74 115 50 52 103
5 104 106 10 108 130 15 124 165 20 148 177 25 167 183 30 165 147 35 142 127 40 116 113 45 74 115
10 108 130 15 124 165 20 148 177 25 167 183 30 165 147 35 142 127 40 116 113 45 74 115
15 124 165 20 148 177 25 167 183 30 165 147 35 142 127 40 116 113 45 74 115
20 148 177 25 167 183 30 165 147 35 142 127 40 116 113 45 74 115
25 167 183 30 165 147 35 142 127 40 116 113 45 74 115
30 165 147 35 142 127 40 116 113 45 74 115
35 142 127 40 116 113 45 74 115
40 116 113 45 74 115
45 74 115
45 74 115
50 52 103
55 48 40
60 44 13
65 34 9 0°
70 18 6 ⁰

Wide beam Halogen 1000 W Efficiency 57.7% NF C 71-121: 0.57C

	A DISTRIB 0–180 9		1500 1000
0	251	251	150° 120° 150° 120°
5	244	255	100
			90°
10	247	272	
15	245	293	50 75°
20	237	306	
25	229	262	60°
30	213	213	
35	194	188	45°
40	163	161	
45	120	133	
50	82	105	
55	52	18	30°
60	35	8	400
65	20	5	
70	8	5	0° 15°

① 400 W Metal Halide: Efficiency rate lower than 250 W due to thermal deflector between glass and lamp, requested for T3.