FLOODLIGHTS

PL Series Floodlights IIB Low temperature

Flameproof. Metal Halide, High Pressure Sodium, Mercury Vapor, Halogen ${}^{ riangle}$

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.
- 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 -40 °C.
- Electrical components (ballast, ignitor and capacitor) are thermally separated from the lighting compartment with an insulating protection, 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 20 mm clearance holes throughwire cable entries supplied with:
 - One Ex e unarmored cable gland 6.5 mm to 14.5 mm sealing diameter.
 - 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 wall-mounting or down lighting applications.
- 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

- 1000 W HP Sodium with separate Ex d housing for ballast.
- 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).

 $\ensuremath{\mathbbm O}$ Inmetro certification available on special request only. Contact your local sales for more information

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ATEX/IECEx Certifications and Compliances

- Certification Type: PJd
 - Gas: Zone 1 and 2
 Conforming to ATEX 94/9/CE:
 ⁽¹⁾ 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: -40 °C ≤ to ≤ +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: IP66/67
 - Impact Resistance (shock): IK10

EURASEC Certification

– EURASEC N° TC RU C-FR.гб05.B.00912

Others Certification

INMETRO Certificate: BVC12.2098^①

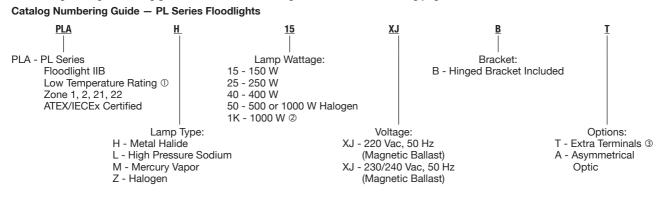


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Order using catalog numbering guide below or select catalog number from the following pages.



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

	Gas Te	Dust		
Lamp Type and Wattage	+40 °C	+50 °C	+55 °C	Surface Temperature °C
150 W High Pressure Sodium	T4	Т3	Т3	+145 °C
250 W High Pressure Sodium	T4	Т3	Т3	+145 °C
250 W Metal Halide	тз	тз	Т3	+197 °C
250 W Mercury Vapor	тз	тз	Т3	+194 °C
400 W High Pressure Sodium	T 4	тз	Т3	+144 °C
400 W Metal Halide	тз	тз	Т3	+193 °C
400 W Mercury Vapor	тз	тз	Т3	+195 °C
600 W High Pressure Sodium	T2	T2	Т2	+257 °C
500 W Halogen	T2	T2	Т2	+267 °C
1000 W Halogen	T1	T1	T1	+378 °C

① Only for 250 W and 400 W Versions.

② Available for High Pressure Sodium Lamp Only + Separate Gear Box.

3 3 Phase + Neutral.



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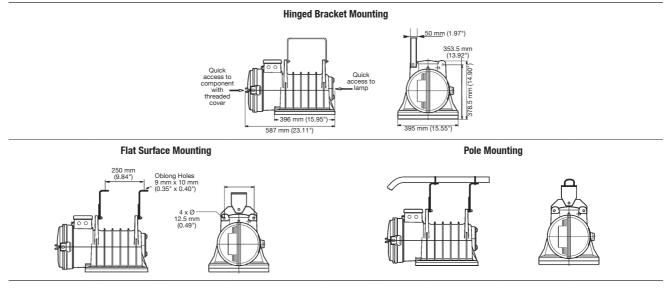
Zone 1 and 2 - 21 and 22 Gas (G) and Dust (D)

Ordering Information – IIB Low Temperature 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

	Lamp Wattages	Lampholder	Voltage (+/–10%)	Lamp Ellipsoidal	Type Tubular	Weight kg	Volume dm ³	Catalog Number ①②③
	High Press	ure Sodium						
	250	E40	230/240 V 50 Hz	х	х	37.5	104.4	PLAL25XJB
	400	E40	220 V 50 Hz	х	х	37.5	104.4	PLAL40XAB
	Halogen							
	500/1000	E40		-	х	34.0	104.4	PLAZ50B
Accessories an	d Replacemer	nt Parts						
								Catalog Number
Galvanized Stee	el Hinged Bra	ckets						
								PLHBG
Galvanized Stee	el Brackets							
	Ĩ	ſ	Pole/Tube Mounting		1-1/4" to 1-1/2"			PNHC49G
					2"			PNHC60G
Pole/Tube	Flat Surface	FI	at Surface Mounting					PNSBG

Dimensions in Millimeters (Inches)



① Hinged bracket available: add suffix -B at the end of the catalog number.

@ 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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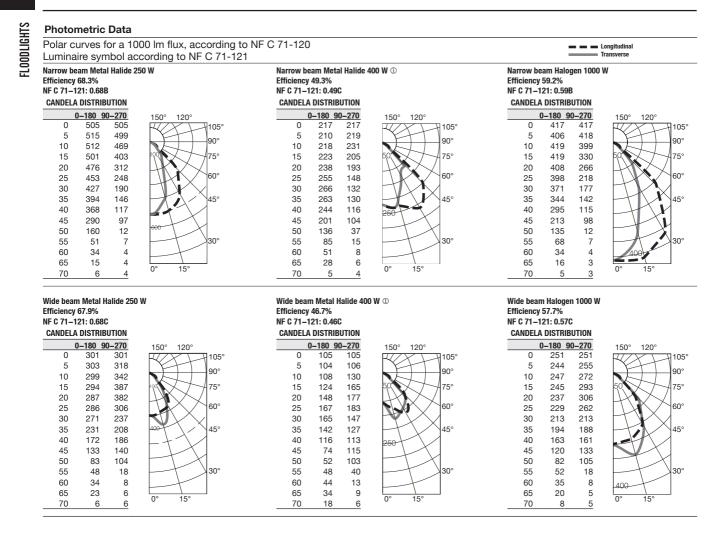


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© 400 W Metal Halide: Efficiency rate lower than 250 W due to thermal deflector between glass and lamp, requested for T3.

