

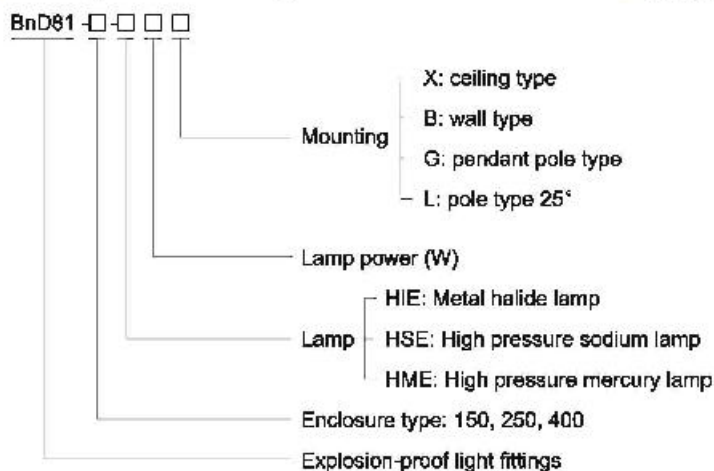


## Pendant Light Fittings

### BnD81 Series Explosion-proof Light Fittings

- ◆ Explosion protection to
  - CENELEC
  - IEC
  - NEC
- ◆ Can be used in
  - Zone 2
  - Zone 21 and Zone 22
  - Class I, Zone 2
  - Class I, Division 2, Groups A, B, C, D
- ◆ Available lamp (max.400W):
  - Metal halide lamp (HIE)
  - High pressure sodium lamp (HSE)
  - High pressure mercury lamp (HME)
- ◆ Three enclosure types: 150, 250, 400
- ◆ Integral control gear, easy installation and maintenance.
- ◆ Both American standard and European standard are available.

### Catalogue number logic



### Selection table

Type/Ordering code	Available lamp power (W)			Lamp holder	Weight (kg)	
	HIE	HSE	HME		American standard	European standard
BnD81-150	70, 100, 150	70, 100	80, 125	E27	8.05	6.15
BnD81-250	175, 250	150, 250	175, 250	E40	13.00	10.20
BnD81-400	400	400	400	E40	18.45	13.60

- Note:**
1. The light fittings are supplied without lamp. PHILIPS lamps are recommended.
  2. The light fittings are supplied without external reflector. Please specify when ordering.
  3. High pressure mercury lamp is not available in American standard products.

## Zones 2; 21&22

Technical data																		
<b>Explosion-proof light fittings</b>		<b>BnD81-150-□□□</b>																
<b>Explosion protection</b>		Ⓔ II 3 G Ex nR IIC T4 or T3 Gc <sup>1)</sup> Ex nR IIC T4 or T3 Gc <sup>1)</sup> Ⓔ II 2 D Ex tb IIIC T130°C or T190°C Db IP65 <sup>1)</sup> Ex t IIIC T130°C or T190°C Db IP65 <sup>1)</sup>																
Gas explosion protection																		
Dust explosion protection																		
<b>Certificates</b>		<sup>1)</sup> See Selection Table for temperature classification LCIE 12 ATEX 1018X(Gas); LCIE 12 ATEX 3093X(Dust); IECEx CQM 12.0045X FM (USA); GOST.R (Russia)																
<b>Conformity to standards</b>		EN 60079-0: 2009, EN 60079-15: 2010, EN 60079-31: 2009 IEC 60079-0: 2007, IEC 60079-15: 2010, IEC 60079-31: 2008																
<b>Material</b>																		
Enclosure		Copper-free aluminium, powder coated surface, yellow (RAL1021)																
Transparent cover		Toughened glass, stands 4J impact																
External reflector (optional)		Pure aluminium, anodicoxidation treatment for surface																
Wire guard (optional)		Stainless steel																
Ballast		Chock ballast, rapid starting, stable performance																
Trigger		General trigger																
Capacitor		Power factor ≥ 0.90 (compensated)																
Exposed fastener		Stainless steel																
<b>Lamp</b>																		
Lamp holder		E27																
Available lamp and lamp power (W)		<table border="1"> <thead> <tr> <th>Available lamp</th> <th>American standard</th> <th>European standard</th> </tr> </thead> <tbody> <tr> <td></td> <td>120V/208V/240V/277V/480V AC</td> <td>220~240V, 250V AC</td> </tr> <tr> <td>HIE</td> <td>70W, 100W, 150W</td> <td>70W, 100W, 150W</td> </tr> <tr> <td>HSE</td> <td>70W, 100W</td> <td>70W, 100W</td> </tr> <tr> <td>HME</td> <td>-</td> <td>80W, 125W</td> </tr> </tbody> </table>		Available lamp	American standard	European standard		120V/208V/240V/277V/480V AC	220~240V, 250V AC	HIE	70W, 100W, 150W	70W, 100W, 150W	HSE	70W, 100W	70W, 100W	HME	-	80W, 125W
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HSE	70W, 100W	70W, 100W																
HME	-	80W, 125W																
<b>Rated voltage</b>		Note: Please see Selection table of American standard HID lamp and corresponding electrical components (See P1/20) American standard: 120V/208V/240V/277V/480V AC 60Hz (50Hz is optional) European standard: 220~240V AC 50Hz (60Hz is optional) 250V AC 50Hz (60Hz is optional)																
<b>Earthing protection</b>		M5 (internal & external earth bolts)																
<b>Degree of protection</b>		IP65																
<b>Ambient temperature</b>		-60°C~+55°C																
<b>Terminal</b>		3 x 1.5~4mm <sup>2</sup> (L+N+PE)																
<b>Mounting</b>		Ceiling type, wall type, pendant pole type, pole type 25°																
<b>Cable entries</b>		1 x M25 x 1.5																
<b>Cable gland (optional)</b>		DQM-I (Ex e) is recommended. Please see P7/16~19.																



Selection Table					
Rated power		Temperature classification			
		-60°C ≤ Ta ≤ +40°C		-60°C ≤ Ta ≤ +55°C	
		Gas	Dust	Gas	Dust
European Standard	HIE 70W, 100W	T4	T130°C	T4	T130°C
	HIE 150W			T3	T190°C
	HME 80W			T4	T130°C
	HME 125W			T3	T190°C
	HSE 70W, 100W			T4	T130°C
American Standard	HIE 70W, 100W, 150W	T4	T130°C	T4	T130°C
	HSE 70W, 100W				