

# Plugs & Sockets

PRD Series: 16, 32, 80 and 125 A Plugs and Sockets – Flameproof



16 Amp Plug & Socket



32 Amp Plug & Socket



80 Amp & 125 Amp Plug & Socket



PLUGS & SOCKETS

## Compliances:

ATEX - IEC:



16 A & 32 A				
Zone 1 & 2 – 21 & 22	ATEX	II 2 GD	IEC	CE
Ex d IIC	T6 or T5	Ex tD A21	T95°C	IP66 – IK10

ATEX - IEC:

80 A & 125 A				
Zone 1 & 2	ATEX	II 2 G	IEC	CE
Ex d IIB	T6 or T5	IP55 – IK10		

## Amperage and Voltage:

16 A	32 A	80 A	125 A	
20 V to 415 Vac	380/415 Vac	380/415 Vac	380/415 Vac	

## Operating Temperature:

-40°C to +55°C				
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# Plugs & Sockets

## PRD Series: 16, 32, 80 and 125 A Plugs and Sockets – Flameproof

Zone 1 & 2 – 21 & 22

II 2 GD or II 2 G

ATEX / IEC

IP66 or IP55 – IK10

### Applications:

- Hazardous areas where plugs and sockets are used with portable or stationary electrical equipment such as lighting and heating systems, conveyors, motor starters, air-conditioning appliances, compressors and pumps.
- Ideal for hazardous areas where weatherproof and robust equipment is required.
- Ideal for hazardous areas Zones 1, 2, 21 and 22 in the oil and gas industry; such as refineries, pipelines and offshore sea-rigs.

### Features:

#### General:

##### 16 A:

- Flameproof seal with cylindrical spigot joint.
- Automatic disconnection of the poles by patented dual-safety device, which ensures the following once the plug is removed from the socket outlet:
  - Automatic and simultaneous disconnection of each phase in a flameproof chamber
  - Disconnection, once power is off, of the pins in the second flameproof chamber
- Cover can be padlocked (1 padlock diameter 5 mm, length 45 mm).
- Wall sockets and flush sockets incorporate a safety device that only accepts plugging of ATX plugs which are certified for use in hazardous areas.
- Plugs can be used with IEC 60309-2 compliant industrial pin socket outlets in non-hazardous areas.

##### 32 A:

- Flameproof seal with cylindrical spigot joint.
- Mechanical interlocking device ensures:
  - Disconnection takes place within the flameproof chamber before the plug is removed from the socket outlet
  - The plug cannot be removed when energized
- Straight handle placed on the plug for use with IEC 60309-2 compliant industrial pin socket outlets in non-hazardous areas.

##### 80 A and 125 A:

- Interlocking mechanical device which prevents:
  - The switch from closing until the plug is fully inserted into the wall socket
  - The plug from being removed until the switch is off
- Socket outlet supplied with a load break isolating switch ensuring disconnection with power on.
- Switch handle can be padlocked in the “off” position (3 padlocks).

#### Wall Sockets:

##### 16 A:

- 2 x M20 threaded cable entries (1 at the top, 1 at bottom).
- Supplied with one M20 plug.
- Connection on 2 x 4 mm<sup>2</sup> terminals.
- Earth terminals: internal and external, with 4 mm diameter screws.

##### 32 A:

- 2 x M25 threaded cable entries (1 at the top, 1 at bottom).
- Supplied with one M25 plug.
- Connection on 10 mm<sup>2</sup> terminals.
- Earth terminals: internal and external with 6 mm diameter screws.

##### 80 A:

- 1 x M32 threaded cable entry (on the top side).
- Connection via 8 mm diameter lug terminals (not supplied).
- Internal earth through 35 mm<sup>2</sup> connection and external earth through 6 mm diameter screws.

##### 125 A:

- 1 x M50 threaded entry (on the top side).
- Connection via 8 mm diameter lug terminals (not supplied).
- Internal earth through 35 mm<sup>2</sup> connection and external earth through 6 mm diameter screws.

#### Plugs:

##### 16 A:

- 1 cable entry through integrated M25 cable gland 9 to 12 mm diameter for the 2P+E plug 12 to 15 mm diameter for the 3P+E plug 15 to 17 mm diameter for the 3P+N+E plug
- Connection on 2.5 mm<sup>2</sup> maximum terminals.

##### 32 A:

- 1 cable entry via integrated cable gland diameter 17 to 22 mm.
- Connection on 6 mm<sup>2</sup> maximum terminals.

##### 80 A:

- 1 cable entry via supplied cable gland diameter 18 to 28 mm.
- Connection on 16 mm<sup>2</sup> maximum terminals.

##### 125 A:

- 1 cable entry via supplied cable gland diameter 30 to 36 mm.
- Connection on 35 mm<sup>2</sup> maximum terminals.

### Standard Material of Fixtures:

#### Socket Outlets:

##### 16 A:

- Gray painted marine grade aluminum alloy.

##### 32 A:

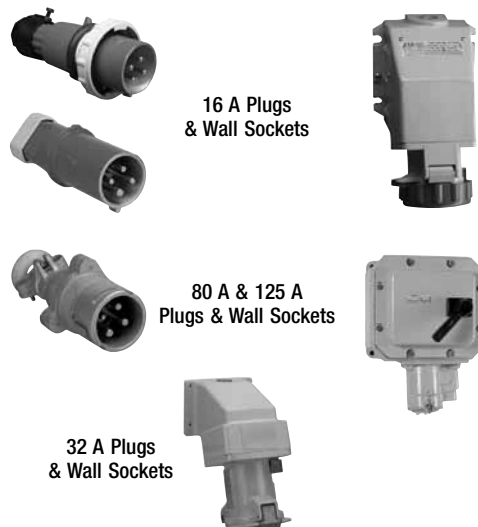
- Gray painted marine grade aluminum alloy body and cast iron flush socket.

##### 80 A and 125 A:

- Gray painted cast iron with marine anti-corrosion treatment.

#### Plugs:

- Gray painted marine grade aluminum alloy.



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Zone 1 & 2 – 21 & 22

II 2 GD or II 2 G

ATEX / IEC

IP66 or IP55 – IK10

### Ordering Information:

Extra Low Voltage:

16 A – 20/25 Vac 50/60 Hz

Equipment	Pin Configuration	Weight (kg)	Volume (dm <sup>3</sup> )	Catalog Number	Old Catalog Number	Pack
Wall Socket		1.7	5	PRD316RP	094403	1
Plug		0.5	4	PRD316PP	094458	1

Low Voltage:

16 A – 100/130 Vac 50/60 Hz

Equipment	Pin Configuration	Weight (kg)	Volume (dm <sup>3</sup> )	Catalog Number	Old Catalog Number	Pack
Wall Socket		1.7	5	PRD316RY	094404	1
Plug		0.5	4	PRD316PY	094460	1

16 A – 200/250 Vac 50/60 Hz

Equipment	Pin Configuration	Weight (kg)	Volume (dm <sup>3</sup> )	Catalog Number	Old Catalog Number	Pack
Wall Socket		1.7	5	PRD316RB	094406	1
Plug		0.5	4	PRD316PB	094463	1

16 A – 380/415 Vac 50/60 Hz

Wall Socket		1.8	5	PRD416RR	094415	1
Plug		0.5	4	PRD416PR	094467	1
Wall Socket		1.9	5	PRD516RR	094416	1
Plug		0.5	4	PRD516PR	094468	1

(1) 200/346 V – 240/415 Vac 50/60 Hz

32 A – 380/415 Vac 50/60 Hz

Wall Socket		10.4	17	PRD432RR	094420	1
Plug		1.5	4	PRD432PR	094480	1

80 A – 380/415 Vac 50/60 Hz

Wall Socket		44.6	69	PRD480RR	094422	1
Plug		3.4	6	PRD480PR	094667	1

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Zone 1 & 2 – 21 & 22


Ex II 2 GD or II 2 G

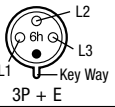
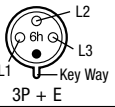
ATEX / IEC

IP66 or IP55 – IK10


### Ordering Information – Continued:



Low Voltage:


125 A – 380/415 Vac 50/60 Hz 

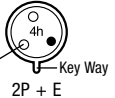
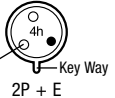
Equipment	Pin Configuration	Weight (kg)	Volume (dm <sup>3</sup> )	Catalog Number	Old Catalog Number	Pack
Wall Socket		47	69	PRD412RR	094424	1
Plug		5.9	7	PRD412PR	094693	1


### Flush Sockets for Mounting on Ex d IIB or Ex d IIC Enclosures:

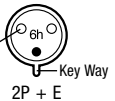
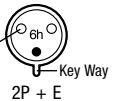
16 A – 20/25 Vac 50/60 Hz 


Gas Group	Pin Configuration	Weight (kg)	Volume (dm <sup>3</sup> )	Catalog Number	Old Catalog Number	Pack
Ex d IIC		1.7	5	PRD316FPC	094425	1
Ex d IIB		1.5	5	PRD316FPB	–	1

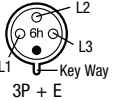
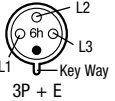
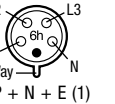
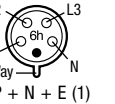
16 A – 100/130 Vac 50/60 Hz 

Gas Group	Pin Configuration	Weight (kg)	Volume (dm <sup>3</sup> )	Catalog Number	Old Catalog Number	Pack
Ex d IIC		1.7	5	PRD316FYC	094426	1
Ex d IIB		1.5	5	PRD316FYB	–	1


16 A – 200/250 Vac 50/60 Hz 

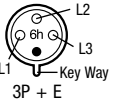
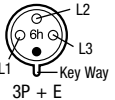
Gas Group	Pin Configuration	Weight (kg)	Volume (dm <sup>3</sup> )	Catalog Number	Old Catalog Number	Pack
Ex d IIC		1.7	5	PRD316FBC	094427	1
Ex d IIB		1.7	5	PRD316FBB	–	1

16 A – 380/415 Vac 50/60 Hz 

Gas Group	Pin Configuration	Weight (kg)	Volume (dm <sup>3</sup> )	Catalog Number	Old Catalog Number	Pack
Ex d IIC		1.8	5	PRD416FRC	094428	1
Ex d IIB		1.6	5	PRD416FRB	–	1
Ex d IIC		1.9	5	PRD516FRC	094429	1
Ex d IIB		1.7	5	PRD516FRB	–	1

(1) 200/346 V – 240/415 Vac 50/60 Hz

32 A – 380/415 Vac 50/60 Hz 

Gas Group	Pin Configuration	Weight (kg)	Volume (dm <sup>3</sup> )	Catalog Number	Old Catalog Number	Pack
Ex d IIC		9.5	17	PRD432FRC	094430	1
Ex d IIB		9.2	17	PRD432FRB	–	1

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Zone 1 & 2 – 21 & 22

Ⓢ II 2 GD or II 2 G

ATEX / IEC

IP66 or IP55 – IK10

### Compliances:

#### 16 A Plugs and Wall Sockets:

Hazardous Area	Gas	Dust
Certification Type	PCX 16d	
Zones	1–2	21–22
Conforming to ATEX 94/9/CE	CE 0081 Ⓢ II 2 G	CE 0081 Ⓢ II 2 D
Symbol of Protection ATEX	Ex d IIC	Ex tD A21
Symbol of Protection IEC		
T Rating	T6 for $T_a \leq +40^\circ\text{C}$ T5 for $+40^\circ\text{C} < T_a \leq +55^\circ\text{C}$	–
Surface Temperature	–	T95°C
Ambient Temperature	-40°C to +55°C	
CE Declaration of Conformity	50243	
ATEX Certificate	LCIE 02 ATEX 6234	
IEC Certificate	LCIE Ex 02.030	
Other Certifications	GOST	
Ingress Protection (solid and liquid)	IP66	
Impact Resistance (shock)	IK10	

#### 32 A Plugs and Wall Sockets:

Hazardous Area	Gas	Dust
Certification Type	PCX 32d	
Zones	1–2	21–22
Conforming to ATEX 94/9/CE	CE 0081 Ⓢ II 2 G	CE 0081 Ⓢ II 2 D
Symbol of Protection ATEX	Ex d IIC	Ex tD A21
Symbol of Protection IEC		
T Rating	T6 for $T_a \leq +40^\circ\text{C}$ T5 for $+40^\circ\text{C} < T_a \leq +55^\circ\text{C}$	–
Surface Temperature	–	T95°C
Ambient Temperature	-40°C to +55°C	
CE Declaration of Conformity	50258	
ATEX Certificate	LCIE 03 ATEX 6134X	
IEC Certificate	LCIE Ex 03.021X	
Other Certifications	GOST	
Ingress Protection (solid and liquid)	IP66	
Impact Resistance (shock)	IK10	

#### Standards: 16 A and 32 A

<b>Ex Standards</b>	EN / IEC 60079-0; 60079-1; 61241-0; 61241-1
<b>Product Standards</b>	EN / IEC 60309-1; 60309-2
<b>EMC Standards</b>	–
<b>Other Standards</b>	EN / IEC 60529 (IP); 62262 (IK)

#### 16 A and 32 A Flush Sockets:

Hazardous Area	Gas	Dust
Certification Type	PCXd/EN	
Zones	1–2	21–22
Conforming to ATEX 94/9/CE	0081 Ⓢ II 2 G	0081 Ⓢ II 2 D
Symbol of Protection ATEX	Ex d IIC	Ex tD A21
Symbol of Protection IEC		
T Rating	–	–
Surface Temperature	–	–
Service Temperature	-40°C to +55°C	
CE Declaration of Conformity	5C227	
ATEX Certificate	LCIE 03 ATEX 0022U	
IEC Certificate	LCIE Ex 03.029U	
Other Certifications	GOST	
Ingress Protection (solid and liquid)	IP66	
Impact Resistance (shock)	IK10	

#### 80 A and 125 A Plugs and Wall Sockets:

Hazardous Area	Gas	
Certification Type	PCX 80d (80A)	PCX 125d (125A)
Zones	1–2	
Conforming to ATEX 94/9/CE	CE 0081 Ⓢ II 2 G	
Symbol of Protection ATEX	Ex d IIB	
Symbol of Protection IEC		
T Rating	T6 for $T_a \leq +40^\circ\text{C}$ T5 for $+40^\circ\text{C} < T_a \leq +55^\circ\text{C}$	T5
Surface Temperature	–	
Ambient Temperature	-40°C to +55°C	
CE Declaration of Conformity	50262	50263
ATEX Certificate	LCIE 03 ATEX 6149X	LCIE 03 ATEX 6148X
IEC Certificate	LCIE Ex 03.024X	LCIE Ex 03.023X
Other Certifications	GOST	
Ingress Protection (solid and liquid)	IP55	
Impact Resistance (shock)	IK10	
Internal Volume	> 2 dm <sup>3</sup> (2 liters)	

#### Standards: 80 A and 125 A

<b>Ex Standards</b>	EN / IEC 60079-0; 60079-1
<b>Product Standards</b>	EN / IEC 60309-1; 60309-2
<b>EMC Standards</b>	–
<b>Other Standards</b>	EN / IEC 60529 (IP); 62262 (IK)

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Zone 1 & 2 – 21 & 22

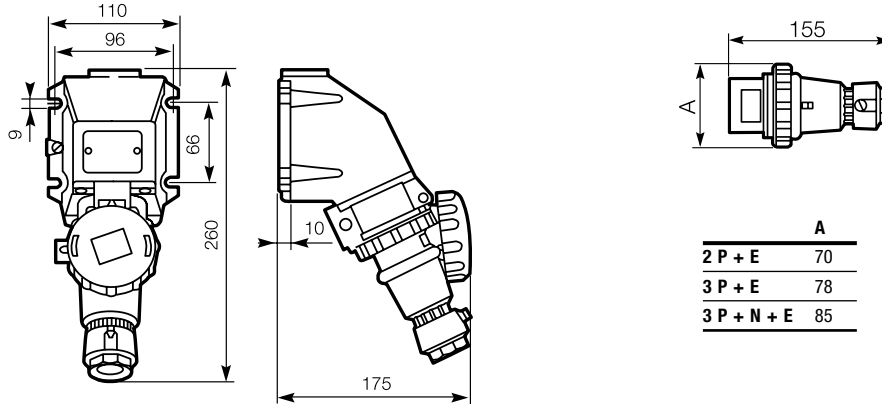
II 2 GD or II 2 G

ATEX / IEC

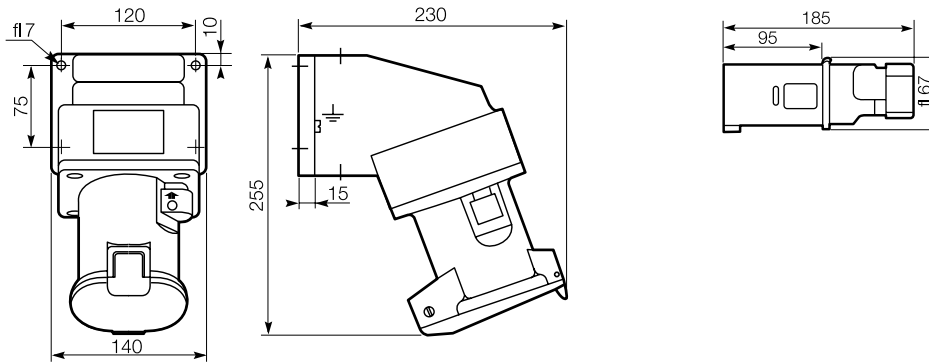
IP66 or IP55 – IK10

## Dimensions (mm):

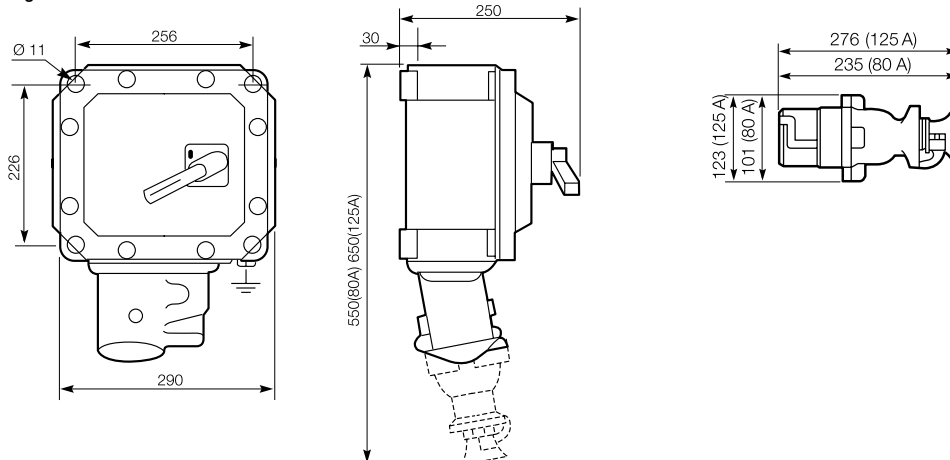
16 A Plugs and Wall Sockets:



32 A Plugs and Wall Sockets:



80 A and 125 A Plugs and Wall Sockets:



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PRD Series: 16, 32, 80 and 125 A Plugs and Sockets – Flameproof

Zone 1 & 2 – 21 & 22

Ex II 2 GD or II 2 G

ATEX / IEC

IP66 or IP55 – IK10

Dimensions (mm) – Continued:

16 A and 32 A Flush Sockets:

