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

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

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^2 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^2 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^2 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^2 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 17mm diameter for the 3P+N+E plug
- Connection on 2.5 mm^2 maximum terminals.

32 A:

- 1 cable entry via integrated cable gland diameter 17 to 22 mm.
- Connection on 6 mm^2 maximum terminals.

80 A:

- 1 cable entry via supplied cable gland diameter 18 to 28 mm.
- Connection on 16 mm^2 maximum terminals.

125 A:

- 1 cable entry via supplied cable gland diameter 30 to 36 mm.
- Connection on 35 mm^2 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.

16 A Plugs & Wall Sockets

80 A & 125 A Plugs & Wall Sockets

32 A Plugs & Wall Sockets

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Plugs & Sockets

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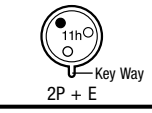
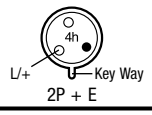
Zone 1 & 2 – 21 & 22
II 2 GD or II 2 G
ATEX / IEC
IP66 or IP55 – IK10

Ordering Information:

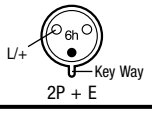
Extra Low Voltage:
16 A – 20/25 Vac 50/60 Hz

Equipment	Pin Configuration	Weight (kg)	Volume (dm³)	Catalog Number	Old Catalog Number	Pack
Wall Socket	 2P + E	1.7	5	**PRD316RP**	094403	1
Plug		0.5	4	**PRD316PP**	094458	1

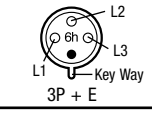
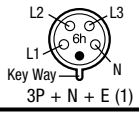
Low Voltage:
16 A – 100/130 Vac 50/60 Hz

Equipment	Pin Configuration	Weight (kg)	Volume (dm³)	Catalog Number	Old Catalog Number	Pack
Wall Socket	 2P + E	1.7	5	**PRD316RY**	094404	1
Plug		0.5	4	**PRD316PY**	094460	1

16 A – 200/250 Vac 50/60 Hz

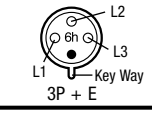
Equipment	Pin Configuration	Weight (kg)	Volume (dm³)	Catalog Number	Old Catalog Number	Pack
Wall Socket	 2P + E	1.7	5	**PRD316RB**	094406	1
Plug		0.5	4	**PRD316PB**	094463	1

16 A – 380/415 Vac 50/60 Hz

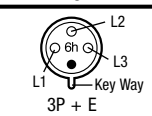
Equipment	Pin Configuration	Weight (kg)	Volume (dm³)	Catalog Number	Old Catalog Number	Pack
Wall Socket	 3P + E	1.8	5	**PRD416RR**	094415	1
Plug		0.5	4	**PRD416PR**	094467	1
Wall Socket	 3P + N + E (1)	1.9	5	**PRD516RR**	094416	1
Plug		0.5	4	**PRD516PR**	094468	1

(1) 200/346 V – 240/415 Vac 50/60 Hz

32 A – 380/415 Vac 50/60 Hz

Equipment	Pin Configuration	Weight (kg)	Volume (dm³)	Catalog Number	Old Catalog Number	Pack
Wall Socket	 3P + E	10.4	17	**PRD432RR**	094420	1
Plug		1.5	4	**PRD432PR**	094480	1

80 A – 380/415 Vac 50/60 Hz

Equipment	Pin Configuration	Weight (kg)	Volume (dm³)	Catalog Number	Old Catalog Number	Pack
Wall Socket	 3P + E	44.6	69	**PRD480RR**	094422	1
Plug		3.4	6	**PRD480PR**	094667	1

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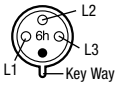
Zone 1 & 2 – 21 & 22
II 2 GD or II 2 G
ATEX / IEC
IP66 or IP55 – IK10

Ordering Information – Continued:

Low Voltage:
125 A – 380/415 Vac 50/60 Hz

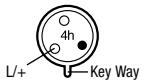
Equipment	Pin Configuration	Weight (kg)	Volume (dm^3)	Catalog Number	Old Catalog Number	Pack
Wall Socket	 3P + E	47	69	**PRD412RR**	094424	1
Plug		5.9	7	**PRD412PR**	094693	1

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^3)	Catalog Number	Old Catalog Number	Pack
Ex d IIC	2P + E	1.7	5	**PRD316FPC**	094425	1
Ex d IIB		1.5	5	**PRD316FPB**	–	1

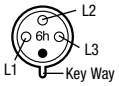
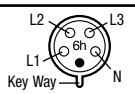
16 A – 100/130 Vac 50/60 Hz

Gas Group	Pin Configuration	Weight (kg)	Volume (dm^3)	Catalog Number	Old Catalog Number	Pack
Ex d IIC	 2P + E	1.7	5	**PRD316FYC**	094426	1
Ex d IIB		1.5	5	**PRD316FYB**	–	1

16 A – 200/250 Vac 50/60 Hz

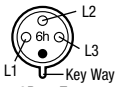
Gas Group	Pin Configuration	Weight (kg)	Volume (dm^3)	Catalog Number	Old Catalog Number	Pack
Ex d IIC	2P + E	1.7	5	**PRD316FBC**	094427	1
Ex d IIB		1.7	5	**PRD316FBB**	–	1

16 A – 380/415 Vac 50/60 Hz

Gas Group	Pin Configuration	Weight (kg)	Volume (dm^3)	Catalog Number	Old Catalog Number	Pack
Ex d IIC	 3P + E	1.8	5	**PRD416FRC**	094428	1
Ex d IIB		1.6	5	**PRD416FRB**	–	1
Ex d IIC	 3P + N + E (1)	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^3)	Catalog Number	Old Catalog Number	Pack
Ex d IIC	 3P + E	9.5	17	**PRD432FRC**	094430	1
Ex d IIB		9.2	17	**PRD432FRB**	–	1

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Zone 1 & 2 – 21 & 22
Ⓔx 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 Ⓔx II 2 G	CE 0081 Ⓔx II 2 D
Symbol of Protection ATEX	Ex d IIC	Ex tD A21
Symbol of Protection IEC		
T Rating	T6 for Ta ≤ +40°C T5 for +40°C < Ta ≤ +55°C	–
Surface Temperature	–	T95ºC
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 Ⓔx II 2 G	CE 0081 Ⓔx II 2 D
Symbol of Protection ATEX	Ex d IIC	Ex tD A21
Symbol of Protection IEC		
T Rating	T6 for Ta ≤ +40°C T5 for +40°C < Ta ≤ +55°C	–
Surface Temperature	–	T95ºC
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

Ex Standards	EN / IEC 60079-0; 60079-1; 61241-0; 61241-1
Product Standards	EN / IEC 60309-1; 60309-2
EMC Standards	–
Other Standards	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 Ⓔx II 2 G	0081 Ⓔx 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 Ⓔx II 2 G	
Symbol of Protection ATEX	Ex d IIB	
Symbol of Protection IEC		
T Rating	T6 for Ta ≤ +40°C T5 for +40°C < Ta ≤ +55°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^3 (2 liters)	

Standards: 80 A and 125 A

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

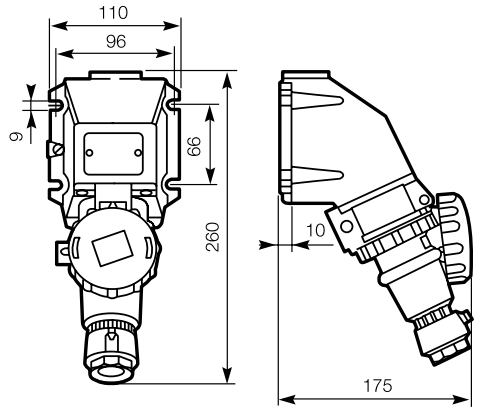
Plugs & Sockets

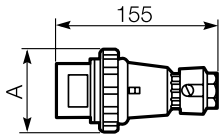
PRD Series: 16, 32, 80 and 125 A Plugs and Sockets – Flameproof

Zone 1 & 2 – 21 & 22
II 2 GD or II 2 G
ATEX / IEC
IP66 or IP55 – IK10

Dimensions (mm):

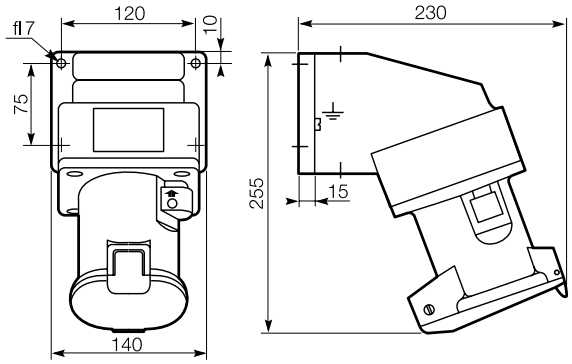
16 A Plugs and Wall Sockets:

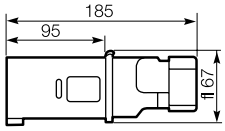




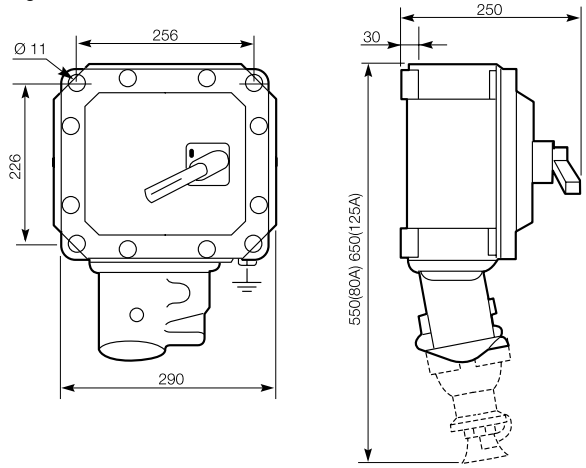
	A
2 P + E	70
3 P + E	78
3 P + N + E	85

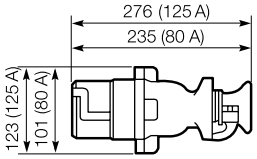
32 A Plugs and Wall Sockets:





80 A and 125 A Plugs and Wall Sockets:



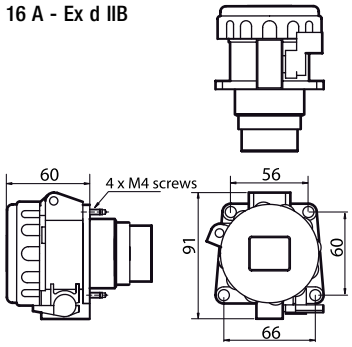


Zone 1 & 2 – 21 & 22
II 2 GD or II 2 G
ATEX / IEC
IP66 or IP55 – IK10

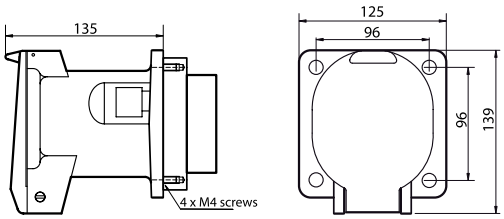
Dimensions (mm) – Continued:

16 A and 32 A Flush Sockets:

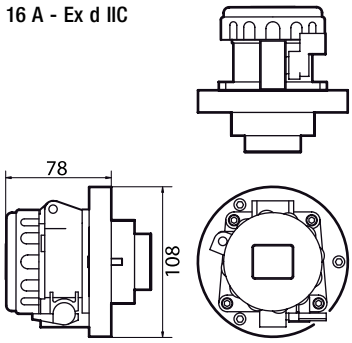
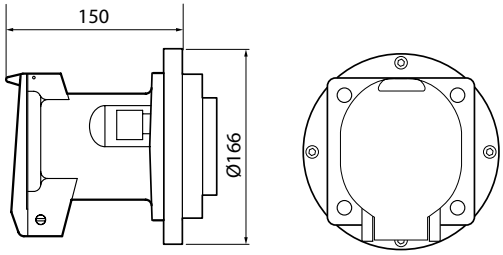
16 A - Ex d IIB



32 A - Ex d IIB



16 A - Ex d IIC



32 A - Ex d IIC