

PRD Series 16, 32, 80 and 125 Amp Plugs and Sockets

Flameproof

16A and 32A :
Zone 1 and 2 - 21 and 22
Gas (G) and Dust (D)

80A and 125A :
Zone 1 and 2
Gas (G)

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 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.
- General — 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.
- General — 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 mm² terminals.
 - Earth terminals: internal and external, with 4 mm diameter screws.
- Wall Sockets — 32 A:
 - 2 x M25 threaded cable entries (1 at the top, 1 at bottom).
 - Supplied with one M25 plug.
 - Connection on 10 mm² terminals.
 - Earth terminals: internal and external with 6 mm diameter screws.
- Wall Sockets — 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 mm² connection and external earth through 6 mm diameter screws.



16 Amp Plug and Socket



32 Amp Plug and Socket



80 Amp and 125 Amp Plug and Socket

- Wall Sockets — 125 A:
 - 1 x M50 threaded entry (on the top side).
 - Connection via 8 mm diameter lug terminals (not supplied).
 - Internal earth through 35 mm² 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 mm² maximum terminals.
- Plugs — 32 A:
 - 1 cable entry via integrated cable gland diameter 17 to 22 mm.
 - Connection on 6 mm² maximum terminals.
- Plugs — 80 A:
 - 1 cable entry via supplied cable gland diameter 18 to 28 mm.
 - Connection on 16 mm² maximum terminals.
- Plugs — 125 A:
 - 1 cable entry via supplied cable gland diameter 30 to 36 mm.
 - Connection on 35 mm² maximum terminals.

Standard Materials

- 16 A socket outlet body and socket: gray painted marine grade aluminum alloy
- 32 A socket outlet body: gray painted marine grade aluminum alloy body
- 32 A socket outlet flush socket: cast iron
- 80 and 125 A socket outlet body and socket: painted cast iron with marine anti-corrosion treatment
- Plugs: RAL 7038 gray painted marine grade aluminum alloy

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Certifications and Compliances

16 A and 32 A

◆ATEX Certification

- **Certification Type (16 A Plugs and Wall Sockets) PCX 16d**
 - Gas: Zones 1 and 2
 - Conforming to ATEX 94/9/CE: Ⓢ II 2 G
 - Type of Protection: Ex d IIC
 - Temperature class: T6 for $T_a \leq +40^\circ\text{C}$ and T5 for $+55^\circ\text{C}$
 - Dust: Zones 21 and 22
 - Conforming to ATEX 94/9/CE: Ⓢ II 2 D
 - Type of Protection: Ex td A21
 - Surface Temperature: T95 $^\circ\text{C}$
 - Ambient Temperature: -40°C to $+55^\circ\text{C}$
 - CE Declaration of Conformity: 50243
 - ATEX Certificate: LCIE 02 ATEX 6234
 - Index of Protection according EN/IEC 60529: IP66
- **Certification Type (16 A Flush Sockets) PCXd/EN**
 - Gas: Zones 1 and 2
 - Conforming to ATEX 94/9/CE: Ⓢ II 2 G
 - Type of Protection: Ex d IIC
 - Dust, Zones 21 and 22
 - Conforming to ATEX 94/9/CE: Ⓢ II 2 D
 - Type of Protection: Ex td A21
 - Ambient Temperature: -40°C to $+55^\circ\text{C}$
 - CE Declaration of Conformity: 5C227
 - ATEX Certificate: LCIE 03 ATEX 0022U
 - Index of Protection according EN/IEC 60529: IP66
- **Certification Type (32 A Plugs and Wall Sockets) PCX 32d**
 - Gas: Zones 1 and 2
 - Conforming to ATEX 94/9/CE: Ⓢ II 2 G
 - Type of Protection: Ex d IIC
 - Temperature class: T6 for $T_a \leq +40^\circ\text{C}$ and T5 for $+55^\circ\text{C}$
 - Dust, Zones 21 and 22
 - Conforming to ATEX 94/9/CE: Ⓢ II 2 D
 - Type of Protection: Ex td A21
 - Surface Temperature: T95 $^\circ\text{C}$
 - Ambient Temperature: -40°C to 55°C
 - CE Declaration of Conformity: 50258
 - ATEX Certificate: LCIE 03 ATEX 6134X
 - Index of Protection according EN/IEC 60529: IP66

◆EURASEC Certification

- EURASEC N° TC RU C-FR.Г505.B.00910

80 A and 125 A

◆ATEX Certification

- **Certification Type (80 A Plugs and Wall Sockets) PCX 80d**
 - Gas: Zones 1 and 2
 - Conforming to ATEX 94/9/CE: Ⓢ II 2 G
 - Type of Protection: Ex d IIB
 - Temperature class: T6 for $T_a \leq +40^\circ\text{C}$ and T5 for $+55^\circ\text{C}$
 - Ambient Temperature: -40°C to 55°C
 - CE Declaration of Conformity: 50262
 - ATEX Certificate: LCIE 03 ATEX 6149X
 - Internal Volume: $< 2\text{ dm}^3$ (2 liters)
 - Index of Protection according EN/IEC 60529: IP66
- **Certification Type (125 A Plugs and Wall Sockets) PCX 125d**
 - Gas: Zones 1 and 2
 - Conforming to ATEX 94/9/CE: Ⓢ II 2 G
 - Type of Protection: Ex d IIB
 - Temperature class: T5
 - Ambient Temperature: -40°C to 55°C
 - CE Declaration of Conformity: 50263
 - ATEX Certificate: LCIE 03 ATEX 6148X
 - Internal Volume: $< 2\text{ dm}^3$ (2 liters)
 - Index of Protection according EN/IEC 60529: IP66

◆EURASEC Certification

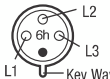
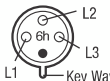
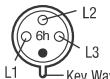
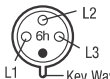
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80A and 125A :
Zone 1 and 2
Gas (G)

Equipment	Pin Configuration	Weight kg	Volume dm ³	Catalog Number
Extra Low Voltage				
16 A – 20/25 Vac 50/60 Hz — Purple				
Wall Socket	 Key Way 2P + E	1.7	5	PRD316RP
Plug		0.5	4	PRD316PP
Low Voltage				
16 A – 100/130 Vac 50/60 Hz — Yellow				
Wall Socket	 L/+ Key Way 2P + E	1.7	5	PRD316RY
Plug		0.5	4	PRD316PY
16 A – 200/250 Vac 50/60 Hz — Blue				
Wall Socket	 L/+ Key Way 2P + E	1.7	5	PRD316RB
Plug		0.5	4	PRD316PB
16 A – 380/415 Vac 50/60 Hz — Red				
Wall Socket	 L1 L2 L3 Key Way 3P + E	1.8	5	PRD416RR
Plug		0.5	4	PRD416PR
Wall Socket	 L1 L2 L3 N Key Way 3P + N + E ①	1.9	5	PRD516RR
Plug		0.5	4	PRD516PR
32 A – 380/415 Vac 50/60 Hz — Red				
Wall Socket	 L1 L2 L3 Key Way 3P + E	10.4	17	PRD432RR
Plug		1.5	4	PRD432PR
80 A – 380/415 Vac 50/60 Hz — Red				
Wall Socket	 L1 L2 L3 Key Way 3P + E	44.6	69	PRD480RR
Plug		3.4	6	PRD480PR
125 A – 380/415 Vac 50/60 Hz — Red				
Wall Socket	 L1 L2 L3 Key Way 3P + E	47	69	PRD412RR
Plug		5.9	7	PRD412PR

① 200/346 V – 240/415 Vac 50/60 Hz.

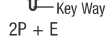
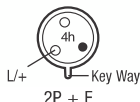
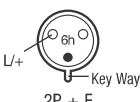
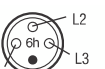
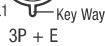
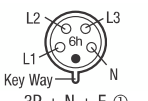
Shaded catalog numbers are normally stocked items. All other items are made to order.

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Zone 1 and 2
Gas (G)

Gas Group	Pin Configuration	Weight kg	Volume dm ³	Catalog Number
Flush Sockets for Mounting on Ex d IIB or Ex d IIC Enclosures				
16 A – 20/25 Vac 50/60 Hz — Purple				
Ex d IIC		1.7	5	PRD316FPC
Ex d IIB		1.5	5	PRD316FPB
16 A – 100/130 Vac 50/60 Hz — Yellow				
Ex d IIC		1.7	5	PRD316FYC
Ex d IIB		1.5	5	PRD316FYB
16 A – 200/250 Vac 50/60 Hz — Blue				
Ex d IIC		1.7	5	PRD316FBC
Ex d IIB		1.7	5	PRD316FBB
16 A – 380/415 Vac 50/60 Hz — Red				
Ex d IIC		1.8	5	PRD416FRC
Ex d IIB		1.6	5	PRD416FRB
Ex d IIC		1.9	5	PRD516FRC
Ex d IIB		1.7	5	PRD516FRB
32 A – 380/415 Vac 50/60 Hz — Red				
Ex d IIC		9.5	17	PRD432FRC
Ex d IIB		9.2	17	PRD432FRB

① 200/346 V – 240/415 Vac 50/60 Hz.

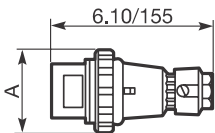
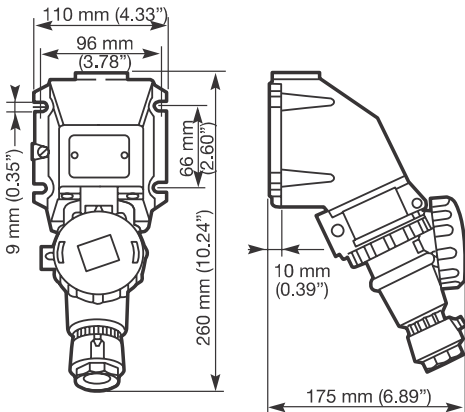
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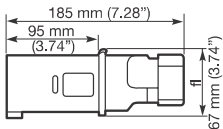
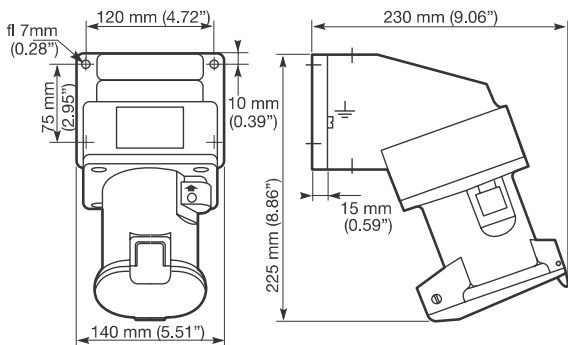
Plugs and Receptacles
FLAMEPROOF EX D

16 Amp Plug and Wall Socket Dimensions in Millimeters (Inches)

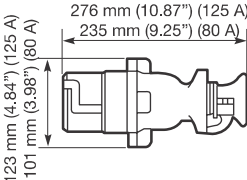
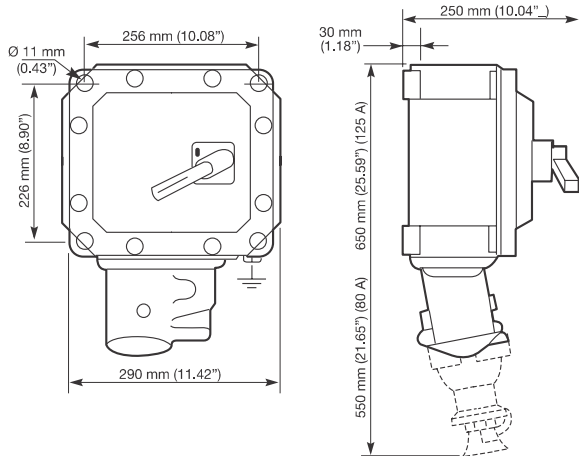


	A
2 P + E	70
3 P + E	78
3 P + N + E	85

32 Amp Plug and Wall Socket Dimensions in Millimeters (Inches)



80 and 125 Amp Plug and Wall Socket Dimensions in Millimeters (Inches)



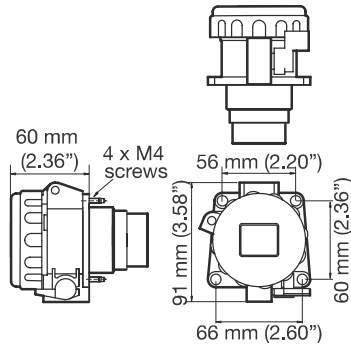
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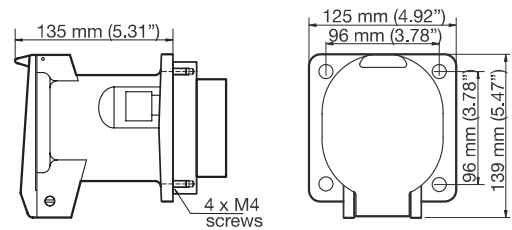
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Zone 1 and 2
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16 and 32 Amp Flush Socket Dimensions in Millimeters (Inches)

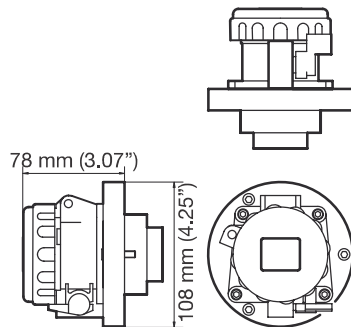
16 A – Ex d IIB



32 A – Ex d IIB



16 A – Ex d IIC



32 A – Ex d IIC

