

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

Flameproof

ATEX:
Zone 1 and 2 – 21 and 22
 II 2 GD or II 2 G
 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 (0.20 in), length 45 mm (1.77 in).
 - 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 (0.003 x 0.006 in²) 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 (0.016 in²) 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 (0.32 in) diameter lug terminals (not supplied).
 - Internal earth through 35 mm² (0.054 in²) connection and external earth through 6 mm (0.24 in) diameter screws.
- Wall Sockets — 125 A:
 - 1 x M50 threaded entry (on the top side).
 - Connection via 8 mm (0.32 in) diameter lug terminals (not supplied).
 - Internal earth through 35 mm² (0.054 in²) connection and external earth through 6 mm (0.24 in) diameter screws.
- Plugs — 16 A:
 - 1 cable entry through integrated M25 cable gland
 - 9 to 12 mm (9 to 12 in) diameter for the 2P+E plug
 - 12 to 15 mm (0.47 to 15 in) diameter for the 3P+E plug
 - 15 to 17 mm (0.59 to 0.70 in) diameter for the 3P+N+E plug
 - Connection on 2.5 mm² (0.004 in²) maximum terminals.
- Plugs — 32 A:
 - 1 cable entry via integrated cable gland diameter 17 to 22 mm (0.70 to 0.87 in).
 - Connection on 6 mm² (0.009 in²) maximum terminals.
- Plugs — 80 A:
 - 1 cable entry via supplied cable gland diameter 18 to 28 mm (0.71 to 1.1 in).
 - Connection on 16 mm² (0.025 in²) maximum terminals.
- Plugs — 125 A:
 - 1 cable entry via supplied cable gland diameter 30 to 36 mm (1.18 to 1.42 in).
 - Connection on 35 mm² (0.054 in²) maximum terminals.



16 Amp Plug and Socket



32 Amp Plug and Socket



80 Amp and 125 Amp Plug and Socket

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: gray painted marine grade aluminum alloy

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ATEX Certifications and Compliances

- 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 $T_a \leq +40$ °C (-40 °F) and T5 for +55 °C (+131 °F)
 - Dust: Zones 21 and 22
 - Conforming to ATEX 94/9/CE: ⊕ II 2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T95 °C (T203 °F)
 - CE Declaration of Conformity: 50243
 - ATEX Certificate: LCIE 02 ATEX 6234
- 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 °C (-40 °F to +131 °F)
 - CE Declaration of Conformity: 5C227
 - ATEX Certificate: LCIE 03 ATEX 0022U
- 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 $T_a \leq +40$ °C (-40 °F) and T5 for +55 °C (+131 °F)
 - Dust, Zones 21 and 22
 - Conforming to ATEX 94/9/CE: ⊕ II 2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T95 °C (T203 °F)
 - CE Declaration of Conformity: 50258
 - ATEX Certificate: LCIE 03 ATEX 6134X
- 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 $T_a \leq 40$ °C (-40 °F) and T5 for +55 °C (+131 °F)
 - CE Declaration of Conformity: 50262
 - ATEX Certificate: LCIE 03 ATEX 6149X
 - Internal Volume: < 2 dm³ (122 in³) - 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
 - CE Declaration of Conformity: 50263
 - ATEX Certificate: LCIE 03 ATEX 6148X
 - Internal Volume: < 2 dm³ (122 in³) - 2 liters
- Ambient Temperature: -40 °C to 55 °C (-40 °F to +131 °F)
- Index of Protection according EN/IEC 60529: IP66


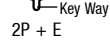

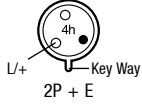

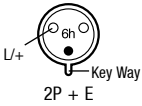

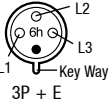

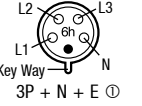

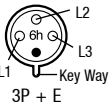

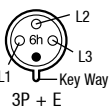

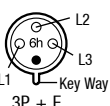
EURASEC Certification

- EURASEC N° TC RU C-FR.Г505.B.00910

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Equipment	Pin Configuration	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number
Extra Low Voltage				
16 A – 20/25 Vac 50/60 Hz – Purple				
Wall Socket		1.7 (3.75)	5 (305)	PRD316RP
Plug	 2P + E	0.5 (1.10)	4 (244)	PRD316PP
Low Voltage				
16 A – 100/130 Vac 50/60 Hz – Yellow				
Wall Socket		1.7 (3.75)	5 (305)	PRD316RY
Plug	 L+ 2P + E	0.5 (1.10)	4 (244)	PRD316PY
16 A – 200/250 Vac 50/60 Hz – Blue				
Wall Socket		1.7 (3.75)	5 (305)	PRD316RB
Plug	 L+ 2P + E	0.5 (1.10)	4 (244)	PRD316PB
16 A – 380/415 Vac 50/60 Hz – Red				
Wall Socket		1.8 (3.97)	5 (305)	PRD416RR
Plug	 L1 Key Way 3P + E	0.5 (1.10)	4 (244)	PRD416PR
Wall Socket		1.9 (4.19)	5 (305)	PRD516RR
Plug	 Key Way L1 3P + N + E ①	0.5 (1.10)	4 (244)	PRD516PR
32 A – 380/415 Vac 50/60 Hz – Red				
Wall Socket		10.4 (22.93)	17 (1037)	PRD432RR
Plug	 L1 Key Way 3P + E	1.5 (3.31)	4 (244)	PRD432PR
80 A – 380/415 Vac 50/60 Hz – Red				
Wall Socket		44.6 (98.33)	69 (4211)	PRD480RR
Plug	 L1 Key Way 3P + E	3.4 (7.50)	6 (366)	PRD480PR
125 A – 380/415 Vac 50/60 Hz – Red				
Wall Socket		47 (103.62)	69 (4211)	PRD412RR
Plug	 L1 Key Way 3P + E	5.9 (13.01)	7 (427)	PRD412PR

① 200/346 V – 240/415 Vac 50/60 Hz.

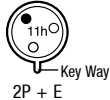
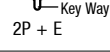
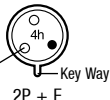
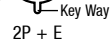
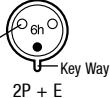
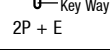
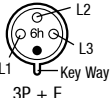
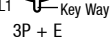
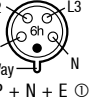
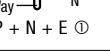
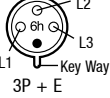
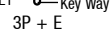
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Flameproof

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Appleton

PLUGS AND RECEPTACLES: ATEX/IECEX FLAMEPROOF

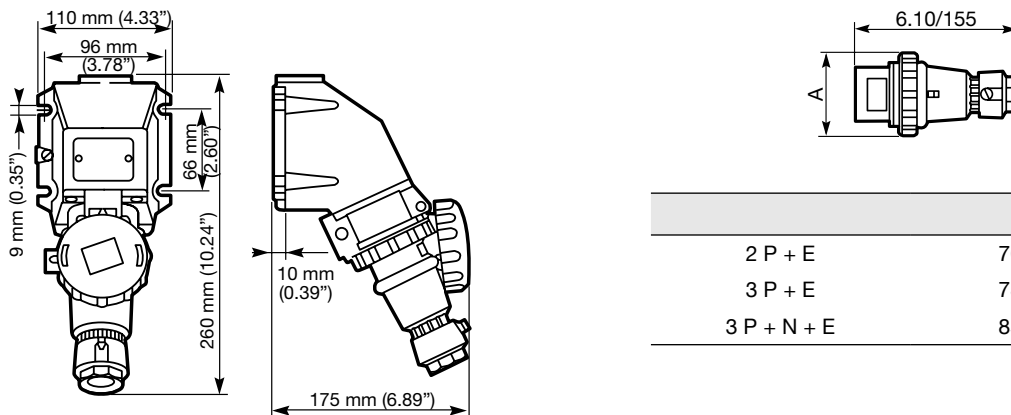
Gas Group	Pin Configuration	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number
Flush Sockets for Mounting on Ex d IIB or Ex d IIC Enclosures				
16 A – 20/25 Vac 50/60 Hz – Purple				
Ex d IIC		1.7 (3.75)	5.0 (305)	PRD316FPC
Ex d IIB		1.5 (3.31)	5.0 (305)	PRD316FPB
16 A – 100/130 Vac 50/60 Hz – Yellow				
Ex d IIC		1.7 (3.75)	5.0 (305)	PRD316FYC
Ex d IIB		1.5 (3.31)	5.0 (305)	PRD316FYB
16 A – 200/250 Vac 50/60 Hz – Blue				
Ex d IIC		1.7 (3.75)	5.0 (305)	PRD316FBC
Ex d IIB		1.7 (3.75)	5.0 (305)	PRD316FBB
16 A – 380/415 Vac 50/60 Hz – Red				
Ex d IIC		1.8 (3.97)	5.0 (305)	PRD416FRC
Ex d IIB		1.6 (3.53)	5.0 (305)	PRD416FRB
Ex d IIC		1.9 (4.19)	5.0 (305)	PRD516FRC
Ex d IIB		1.7 (3.75)	5.0 (305)	PRD516FRB
32 A – 380/415 Vac 50/60 Hz – Red				
Ex d IIC		9.5 (20.94)	17.0 (1037)	PRD432FRC
Ex d IIB		9.2 (10.28)	17.0 (1037)	PRD432FRB

① 200/346 V – 240/415 Vac 50/60 Hz.

ATX™ PRD Series 16, 32, 80 and 125 Amp Plug and Socket Flameproof

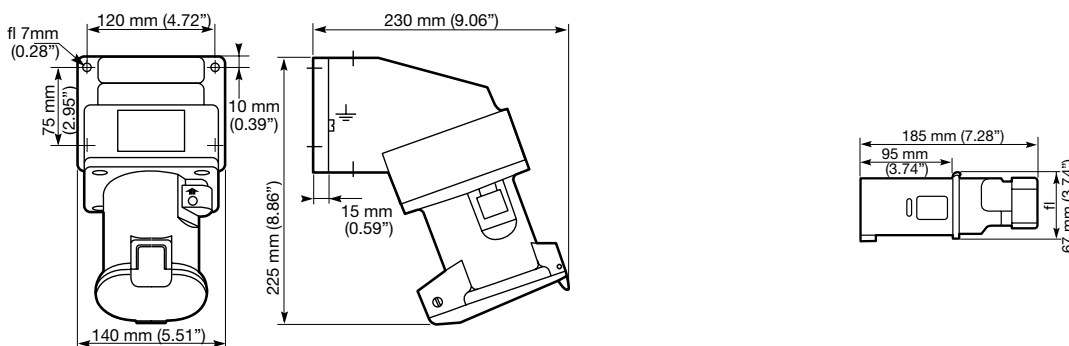
ATEX:
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16 Amp Plug and Wall Socket Dimensions in Millimeters (Inches)

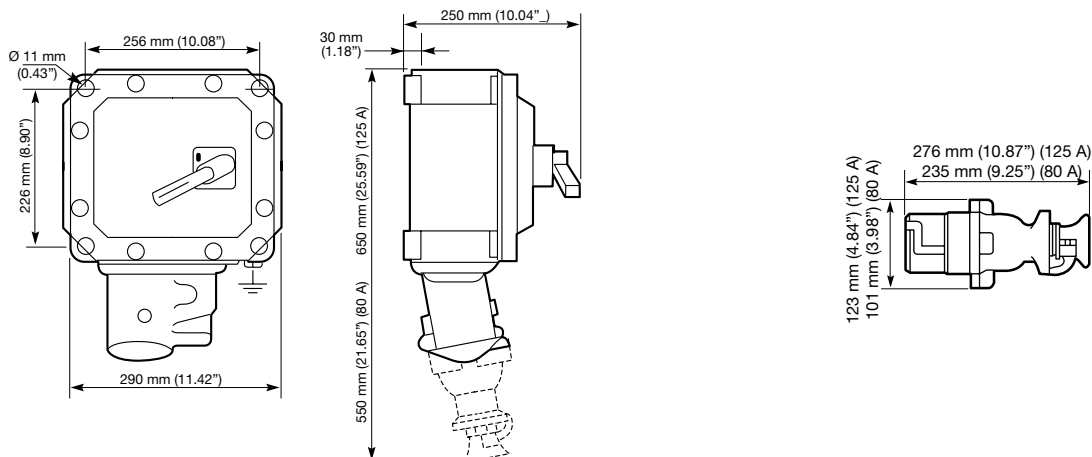


	A
2 P + E	70 (2.76)
3 P + E	78 (3.07)
3 P + N + E	85 (3.35)

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



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



ATX™ PRD Series 16, 32, 80 and 125 Amp Plug and Socket Flameproof

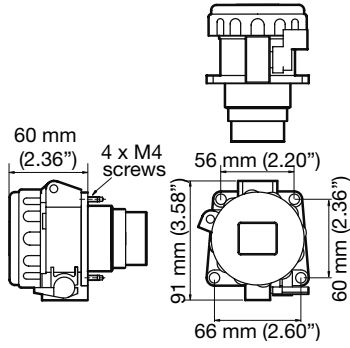
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Appleton

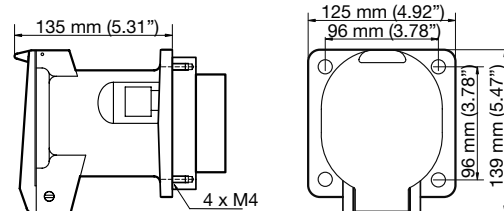
PLUGS AND RECEPTACLES: ATEX/IEC EX FLAMEPROOF

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

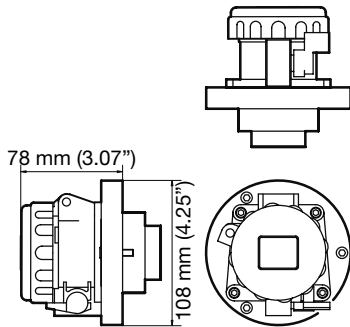
16 A – Ex d IIB



32 A – Ex d IIB



16 A – Ex d IIC



32 A – Ex d IIC

