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.

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 (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.

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: Ⓔx II 2 G
    - – Type of Protection: Ex d IIC
    - – Temperature Class: T6 for Ta ≤ +40 °C (-40 °F) and T5 for +55 °C (+131 °F)
  - — Dust: Zones 21 and 22
    - – Conforming to ATEX 94/9/CE: Ⓔx 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: Ⓔx II 2 G
    - – Type of Protection: Ex d IIC
  - — Dust, Zones 21 and 22
    - – Conforming to ATEX 94/9/CE: Ⓔx II2 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: Ⓔx II 2 G
    - – Type of Protection: Ex d IIC
    - – Temperature Class: T6 for Ta ≤ +40 °C (-40 °F) and T5 for +55 °C (+131 °F)
  - — Dust, Zones 21 and 22
    - – Conforming to ATEX 94/9/CE: Ⓔx II2 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: Ⓔx II 2 G
    - – Type of Protection: Ex d IIB
    - – Temperature Class: T6 for Ta ≤ 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 dm^3 (122 in^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: Ⓔx 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 dm^3 (122 in^3) - 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.ГБ05.B.00910

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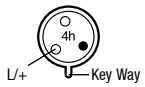
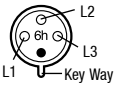
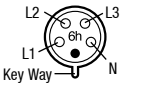
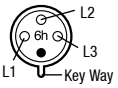
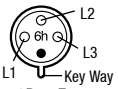
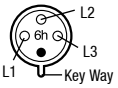
ATEX:
Zone 1 and 2 – 21 and 22
II 2 GD or II 2 G
IP66 or IP55 – IK10

Equipment	Pin Configuration	Weight kg (lb)	Volume dm³ (in³)	Catalog Number
Extra Low Voltage				
16 A – 20/25 Vac 50/60 Hz — Purple				
Wall Socket	2P + E	1.7 (3.75)	5 (305)	**PRD316RP**
Plug		0.5 (1.10)	4 (244)	**PRD316PP**
Low Voltage				
16 A – 100/130 Vac 50/60 Hz — Yellow				
Wall Socket	 2P + E	1.7 (3.75)	5 (305)	**PRD316RY**
Plug		0.5 (1.10)	4 (244)	**PRD316PY**
16 A – 200/250 Vac 50/60 Hz — Blue				
Wall Socket	2P + E	1.7 (3.75)	5 (305)	**PRD316RB**
Plug		0.5 (1.10)	4 (244)	**PRD316PB**
16 A – 380/415 Vac 50/60 Hz — Red				
Wall Socket	 3P + E	1.8 (3.97)	5 (305)	**PRD416RR**
Plug		0.5 (1.10)	4 (244)	**PRD416PR**
Wall Socket	 3P + N + E ①	1.9 (4.19)	5 (305)	**PRD516RR**
Plug		0.5 (1.10)	4 (244)	**PRD516PR**
32 A – 380/415 Vac 50/60 Hz — Red				
Wall Socket	 3P + E	10.4 (22.93)	17 (1037)	**PRD432RR**
Plug		1.5 (3.31)	4 (244)	**PRD432PR**
80 A – 380/415 Vac 50/60 Hz — Red				
Wall Socket	 3P + E	44.6 (98.33)	69 (4211)	**PRD480RR**
Plug		3.4 (7.50)	6 (366)	**PRD480PR**
125 A – 380/415 Vac 50/60 Hz — Red				
Wall Socket	 3P + E	47 (103.62)	69 (4211)	**PRD412RR**
Plug		5.9 (13.01)	7 (427)	**PRD412PR**

① *200/346 V – 240/415 Vac 50/60 Hz.*

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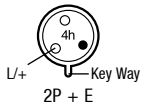
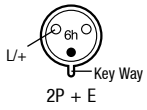
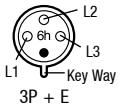
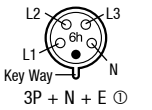
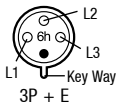
Ex II 2 GD or II 2 G
IP66 or IP55 – IK10

Gas Group	Pin Configuration	Weight kg (lb)	Volume dm³ (in³)	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.*

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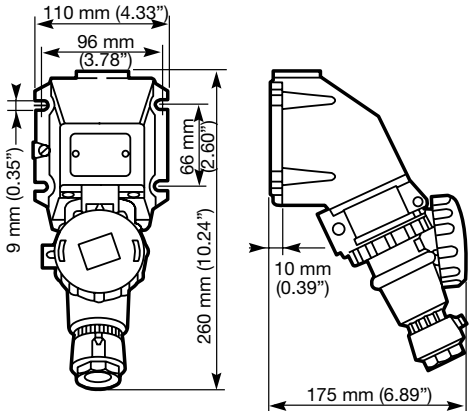
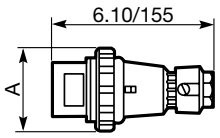
II 2 GD or II 2 G
IP66 or IP55 – IK10

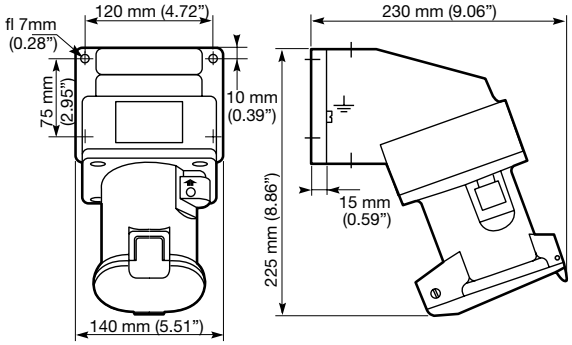
16 Amp Plug and Wall Socket Dimensions in Millimeters (Inches)

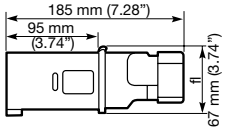




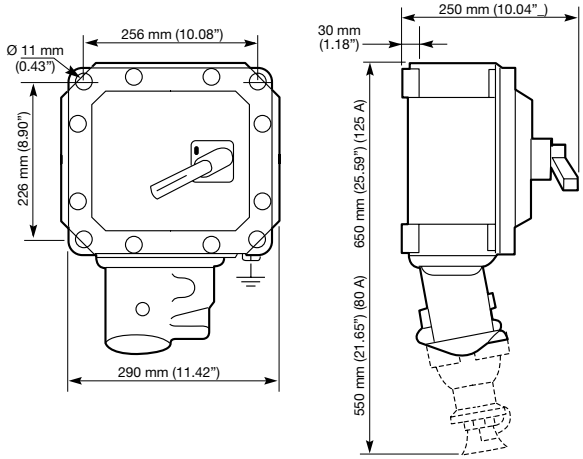
	A
2 P + E	70 (2.76)
3 P + E	78 (3.07)
3 P + N + E	85 (3.35)

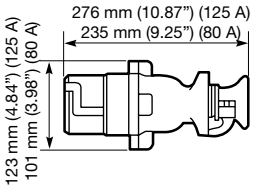
32 Amp Plug and Wall Socket Dimensions in Millimeters (Inches)





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





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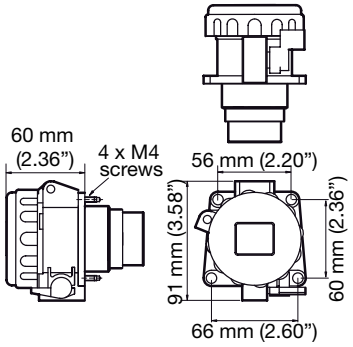
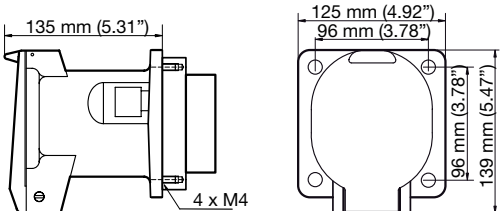
Zone 1 and 2 – 21 and 22
Ⓔx II 2 GD or II 2 G
IP66 or IP55 – IK10

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

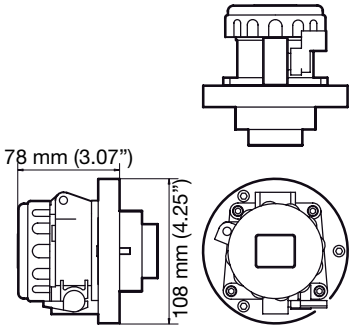
16 A – Ex d IIB



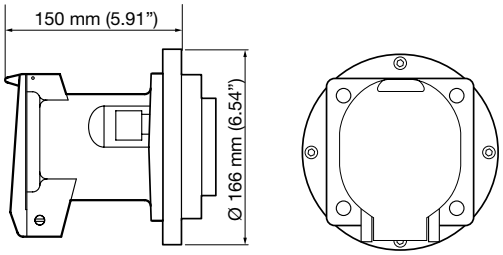
32 A – Ex d IIB



16 A – Ex d IIC



32 A – Ex d IIC



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