

A.T.X.[®] PRE Series 32 Amp Plugs and Sockets

Increased Safety

Zone 1 and 2 - 21 and 22
 Ⓢ II 2 GD
 ATEX / IECEx
 IP66 - IK10

Applications

- Plugs and sockets are used with portable or stationary electrical equipment such as:
 - Lighting systems
 - Conveyors
 - Heaters
 - Motor generators
 - Air conditioning equipment
 - Compressors
 - Pumps
- For use in corrosive atmospheres and installations in Zone 1 and 2 and 21 and 22 of the oil and gas industry, such as:
 - Refineries
 - Chemical and petrochemical plants
 - Pipelines
 - Loading docks
 - Onshore and offshore drilling platforms

Features

- Plug and socket system is designed with a safe disconnect mechanism to insure maximum hazardous location protection:
 - The contact separation is in a flameproof chamber
 - The automatic electrical disconnection of each phase is contained in a second flameproof chamber
- Short circuit protection is 20 kA, while normal reference is 10 kA.
- Different voltages are color coded for easy identification.
- The sockets are keyed to accept only ATX plugs (other plugs can not be inserted).
- ATX plugs can be used in non-hazardous sockets.

Standard Materials

- Wall Socket: high impact resistance fiberglass reinforced polyester
- Plug, mobile socket and flush socket: polyamide

Certifications and Compliances

- Certification Type PCX, PCX/EN
- Gas: Zones 1 and 2
 - Conforming to ATEX 94/9/CE: CE 0081 Ⓢ II 2 G
 - ATEX/IEC Protection: Ex de IIC
 - T-Rating: T6 for $T_a \leq +104 \text{ }^\circ\text{F}/+40 \text{ }^\circ\text{C}$ and T5 for $T_a \leq +131 \text{ }^\circ\text{F}/+55 \text{ }^\circ\text{C}$
 - Ambient Temperature: $-40 \text{ }^\circ\text{F}/-40 \text{ }^\circ\text{C} \leq T_a \leq +131 \text{ }^\circ\text{F}/+55 \text{ }^\circ\text{C}$
 - Impact Resistance (shock): IK10 (Polyester) and IK09 (Polyamide)
- Dust: Zones 21 and 22
 - Conforming to ATEX 94/9/CE: CE 0081 Ⓢ II 2 D
 - ATEX/IEC Protection: Ex tD A21
 - Surface Temperature: T154 $^\circ\text{F}/\text{T68 }^\circ\text{C}$
 - Ambient Temperature: $-40 \text{ }^\circ\text{F}/-40 \text{ }^\circ\text{C} \leq T_a \leq +131 \text{ }^\circ\text{F}/+55 \text{ }^\circ\text{C}$
 - Impact Resistance (shock): IK10
- CE Declaration of Conformity: 50228, 5C214
- ATEX Certificate: LCIE 02 ATEX 6068, LCIE 02 ATEX 0001U
- IECEX Certificate: IECEX LCI 04.0014, IECEX LCI 04.0012
- Other Certifications: GOST
- Ingress Protection (solid and liquid): IP66
- Ex Standards: EN/IEC 60079-0; 60079-1, 60079-7; 61241-0, 61241-1
- Product Standards: EN/IEC 60309-1, 60309-2
- Other Standards: EN/IEC 60529 (IP), 62262 (IK)

LV: Low Voltage



Plug

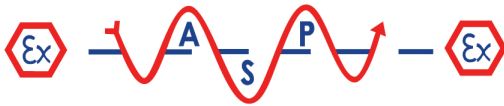
Wall Mounting Socket

Mobile Socket

Flush Socket

Technical Data

Breaking Capacity	
AC 1	32 A – 500 V
	11 kW – 220 V
	12 kW – 240 V
AC 22	19 kW – 380 V
	20.7 kW – 415 V
ICC	20 kA



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Wall Mounting Socket

- Three M25 threaded entries (one on the top and two on the bottom).
- Supplied with one M25 cable gland (Ø 0.31 to Ø 0.73" / Ø 8 to Ø 18.5 mm) and two M25 blanking plugs.
- Terminal capacity 0.003 x 0.009 in² / 2 x 6 mm².
- Fitted with three linked earth terminals.



Plug

- One PG21 integrated cable gland. (Ø 0.31 to Ø 0.73" / Ø 8 to Ø 18.5 mm) for 3P+N+E versions.
- Terminal capacity 0.009 in² / 6 mm².



Mobile Socket

- One PG21 integrated cable gland. (Ø 0.31 to Ø 0.73" / Ø 8 to Ø 18.5 mm) for 2P+E and 3P+E versions.
- One PG29 integrated cable gland. (Ø 0.70 to Ø 0.98" / Ø 18 to Ø 25 mm) for 3P+N+E versions.
- Terminal capacity 0.003 x 0.009 in² / 2 x 6 mm².



Flush Socket

- Terminal capacity 0.003 x 0.009 in² / 2 x 6 mm².

Plugs and Receptacles

PLUGS AND RECEPTACLES: HAZARDOUS LOCATION

Catalog Numbering Guide

PRE
Series:
PRE - PRE Series
Zone 1, 2, 21 and 22
ATEX / IEC

3
Pin Configuration:
3 - 2P+E
4 - 3P+E
5 - 3P+N+E

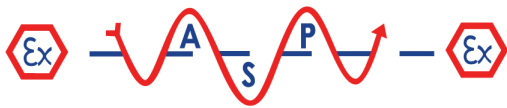
32
Amps:
32 - 32A

R
Equipment:
P - Plug
R - Receptacle
(Wall Mounting)
M - Mobile Socket
F - Flush Socket

P
Voltage:
Y - 100 - 130 Vac
50/60 Hz
B - 200 - 250 Vac
50/60 Hz
R - 380 - 415 Vac
50/60 Hz
N - 480 - 500 Vac
50/60 Hz

LV: Low Voltage


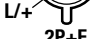












Yellow	Blue	Red	Black
100/130 Vac	200/250 Vac	380/415 Vac	480/500 Vac



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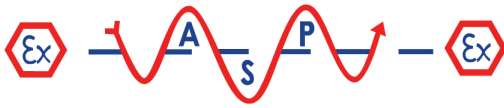
Increased Safety

Zone 1 and 2 - 21 and 22
II 2 GD
ATEX / IECEx
IP66 - IK10

Description	Pin Configuration	Weight (lb/kg)	Volume (in ³ /dm ³)	Catalog Number
100/130 Vac 50/60 Hz – Yellow				
Wall Socket		4.19/1.9	427.17/7.0	PRE332RY
Plug		1.10/0.5	244.09/4.0	PRE332PY
Mobile Socket	L/+ 	1.76/0.8	195.28/3.2	PRE332MY
Flush Socket	2P+E	1.32/0.6	164.76/2.7	PRE332FY
200/250 Vac 50/60 Hz – Blue				
Wall Socket		4.19/1.9	427.17/7.0	PRE332RB
Plug	L/+ 	1.10/0.5	244.09/4.0	PRE332PB
Mobile Socket		1.76/0.8	195.28/3.2	PRE332MB
Flush Socket	2P+E	1.32/0.6	164.76/2.7	PRE332FB
Wall Socket		4.19/1.9	427.17/7.0	PRE432RB
Plug	L1 	1.10/0.5	244.09/4.0	PRE432PB
Mobile Socket	L2 L3 	1.76/0.8	195.28/3.2	PRE432MB
Flush Socket	3P+E	1.32/0.6	164.76/2.7	PRE432FB
Wall Socket		4.19/1.9	427.17/7.0	PRE532RB
Plug	L1 L2 	1.10/0.5	244.09/4.0	PRE532PB
Mobile Socket	N L3 	2.20/1.0	244.09/4.0	PRE532MB
Flush Socket	3P+N+E (1) (1) 120/208 V - 144/250 Vac 50/60 Hz	1.32/0.6	164.76/2.7	PRE532FB
380/415 Vac 50/60 Hz – Red				
Wall Socket		4.41/2.0	427.17/7.0	PRE432RR
Plug	L2 L1 	0.88/0.4	244.09/4.0	PRE432PR
Mobile Socket	L3 	1.76/0.8	195.28/3.2	PRE432MR
Flush Socket	3P+E	1.32/0.6	164.76/2.7	PRE432FR
Wall Socket		4.41/2.0	427.17/7.0	PRE532RR
Plug	L1 L2 	1.10/0.5	244.09/4.0	PRE532PR
Mobile Socket	N L3 	2.20/1.0	244.09/4.0	PRE532MR
Flush Socket	3P+N+E (2) (2) 200/346 V - 240/415 Vac 50/60 Hz	1.32/0.6	164.76/2.7	PRE532FR
480/500 Vac 50/60 Hz – Black				
Wall Socket		4.41/2.0	427.17/7.0	PRE432RN
Plug		0.88/0.4	244.09/4.0	PRE432PN
Mobile Socket		2.20/1.0	244.09/4.0	PRE432MN
Flush Socket	3P+E	1.32/0.6	164.76/2.7	PRE432FN

Plugs and Receptacles



PLUGS AND RECEPTACLES: HAZARDOUS LOCATION



A.T.X.[®] PRE Series 32 Amp Low Voltage Plug and Socket Accessories and Dimensions

Increased Safety

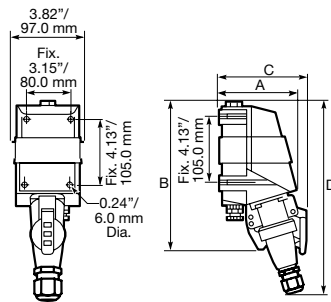
Accessories

Description	Catalog Number
 <p>M5 earth stud with black neoprene sealing washer and green/yellow earth conductor, length 11.8"/300 mm</p>	PREESTM25
 <p>M20 earth continuity adaptor with black neoprene sealing washer and green/yellow earth conductor, length 11.8"/300 mm</p>	PREECAM25

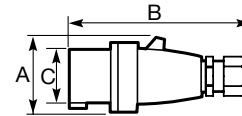
Dimensions

32A — 2P+E — 3P+E — 3P+N+E Versions

Wall Mounting Sockets



Plugs



Dimensions in Inches/Millimeters

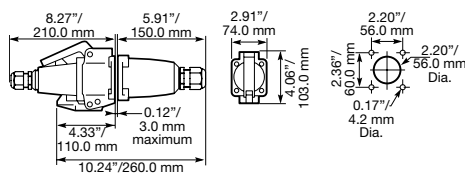
	A	B	C	D
2 P + E	5.51/140.0	10.83/275.0	6.10/155.0	14.67/370.0
3 P + E	5.51/140.0	10.83/275.0	6.10/155.0	14.67/370.0
3 P + N + E	5.51/140.0	10.83/275.0	6.50/165.0	14.76/375.0

Dimensions in Inches/Millimeters

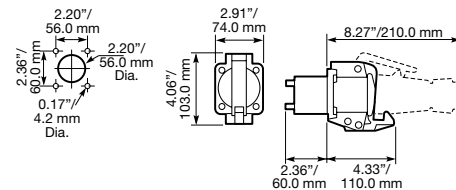
	A	B	C
2 P + T	3.15/80.0	6.69/170.0	2.64/67.0
3 P + T	3.15/80.0	6.69/170.0	2.64/67.0
3 P + N + T	3.15/80.0	7.68/195.0	2.91/74.0

Mobile Sockets

Can be mounted on panel - 0.12"/3.0 mm thickness maximum



Flush Sockets



Plugs and Receptacles

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