

PNCX is a compact and robust connector for industrial purposes intended to be used in potentially explosive atmospheres (zones 1, 2, 21, 22).

PNCX complies with the following regulations and standards(a):

ATEX European Directives (affixing of 'Ex' symbol and CE marking) and RoHS (affixing of CE marking), REACH European Regulation, standards IEC EN 60079-0, IEC/EN 60079-7, IEC/EN 60079-31, IEC/EN 61984.

For a use in zone 1 or 21, PNCX is certified by the following certification bodies:

LCIE (Europe : ATEX and International : IECEx), NANIO (Russia : TR CU), EXPLORLABS (South Africa : SANS).

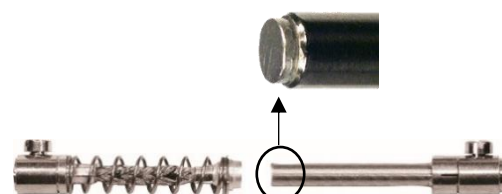


Ex marking :

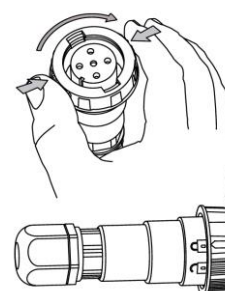
	ATEX Directive Marking / Marquage Directive ATEX	Ex Marking / Marquage Ex	T _a = Ambient temperature / Température ambiante	Temperature class / Classement en température	
				* : Gas / Gaz	** : Dust / Poussières
PNCX Zone 1	 II 2 G D	Ex db eb IIC T6 Gb Ex tb IIIC T72°C Db LCIE 16 ATEX 3001 X IECEx LCIE 16.0001 X	-20°C ≤ T _a ≤ +70°C	T6	T72°C
PNCX Zone 2	 II 3 G D	Ex ec IIC T* Gc Ex tc IIIC T** Dc MAR X 13.0001	-20°C ≤ T _a ≤ +50°C -20°C ≤ T _a ≤ +60°C	T6 T5	T66°C T76°C

General information

	PNCX Zone 1	PNCX Zone 2
(b) I _n	5 A	10 A
U _{max} (V AC/V DC)	250	440
(c) Frequency (Hz)	≤ 500	≤ 500
(d) Number of contacts	4P+E	4P+E
(e) Number of keying positions	1	1
Connection (min - max): mm ²		
Flexible conductors (Cu): main contacts	0.75 - 2.5	0.75 - 2.5
Rigid/stranded conductors (Cu): main contacts	0.75 - 2.5	0.75 - 2.5
Tightening torque - main contacts	0.5 Nm	0.5 Nm
Wiring lugs	Option	Option
U _{imp} : impulse withstand voltage	5 kV	5 kV
Potentially explosive atmosphere : "Gas" authorized installation zone	1, 2	2
Potentially explosive atmosphere : "Dust" authorized installation zone	21, 22	22
(f) Potentially explosive atmosphere : Protection modes	eb, tb	ec, tc
Used as connector according to IEC/EN 61984: In	5 A	10 A
U _{max} (V AC/V DC)	250	440
Number of operations		
Mechanical	2 000	2 000
Thermal features		
Temperature of use mini/maxi (°C)	-20/+70 °C	-20/+60 °C
Storage temperature mini/max: (°C)	-25/+95 °C	-25/+95 °C
Maximal temperature rise (Kmax)	6 K	15 K
Time constant (to reach 63 % of Kmax)	19 mn	19 mn
Mechanical features		
(g,h) IP: connected device	IP66/IP67/ IP69	IP66/IP67/ IP68/IP69
(g,h) IP: lid/cap closed	IP66/IP67/ IP69	IP66/IP67/ IP69
(g) IP: socket-outlet with lid/cap opened	IP2X	IP2X
(i) IK	IK08	IK08
Retaining/releasing device	Locking ring	
(i) Casing	GRP (poly)	
Standard color	Black	
Other colors		
Vibrations resistance	✓	✓
Resistance to chemical agents	Contact us	
Salt mist resistance	> 50 000 h	
Screws and bolts	Stainless steel	
Weight of inlet without accessory (≈)	0.03 kg	0.03 kg
Weight of socket-outlet without accessory (≈)	0.05 kg	0.05 kg



Contacts with silver nickel alloy tips (Ag/Ni : 85/15)



Main options

PNCX adaptator plate for DXN1 accessories

Mounting accessories

(k) Poly straight handle + separated poly cable gland: range take

Spare parts

Gaskets

Catalog: Web link

PNCX
Zone 1

PNCX
Zone 2

✓

✓

10 - 14

10 - 14

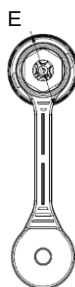
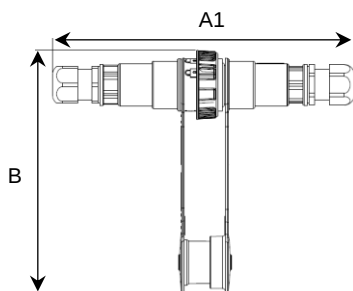
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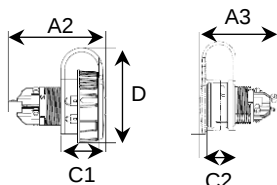
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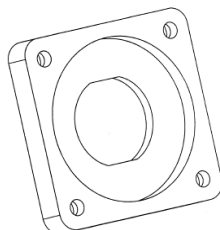
Dimensions



mm	PNCX Zones 1 & 2
A1	199
A2	60
A3	55
B	159
C1	29
C2	24
D	75
E	45



PNCX adaptator plate for DXN1 accessories



- (a) European Regulation REACH: registration, evaluation, authorisation and restriction of chemicals
IEC EN 60079-0 : "Electrical apparatus for explosive gas atmospheres – General requirements"
IEC/EN 60079-7 : "Electrical apparatus for explosive gas atmospheres – Increased safety «e»"
IEC/EN 60079-31 : "Electrical apparatus for explosive gas atmospheres – Equipment dust ignition protection by enclosure «t»"
IEC/EN 61984 : "Connectors – Safety requirements and tests"
- (b) In : Rated current as defined by the manufacturer
- (c) Other frequency: contact us
- (d) Contacts with silver-nickel tips (Ag/Ni 85/15)
- (e) Number of voltage / frequency / grid, keying positions
- (f) These equipment can be used as intrinsically safe "simple apparatus" (Ex i).
- (g) IP : Degrees of protection provided by enclosures (IEC/EN 60529)
- (h) IPX8 : 10 m depth during 15 days
IPX9 : 100 bar, 80°C
- (i) IK : Degrees of protection provided by enclosures against mechanical impacts (IEC/EN 62262)
- (k) GRP : Glass-reinforced technical plastic
- (j) Use Ex certified cable glands adapted to the intended installation zone