

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), EXPLOLABS (South Africa : SANS).

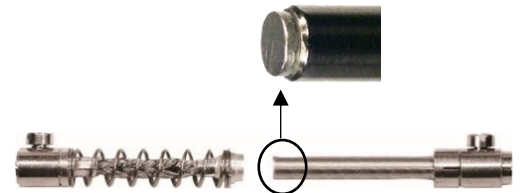


Ex marking :

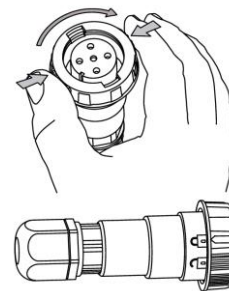
| | ATEX Directive Marking / Marquage Directive ATEX | Ex Marking / Marquage Ex | T _a = Ambient temperature / Température ambiante | Temperature class / Classement en température | |
|----------------|--|--|---|--|------------------------|
| | | | | * : Gas / Gaz | ** : Dust / Poussières |
| PNCX Zone 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 |
| Uimp: 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 adaptor plate for DXN1 accessories

Mounting accessories

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

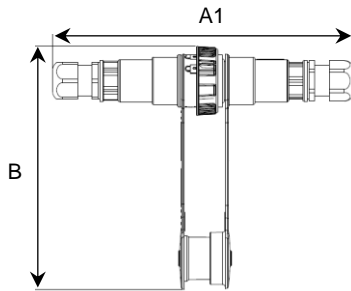
Spare parts

Gaskets

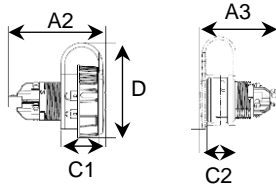
Catalog: Web link

| | PNCX Zone 1 | PNCX Zone 2 |
|---|----------------|----------------|
| PNCX adaptor plate for DXN1 accessories | ✓ | ✓ |
| (k) Poly straight handle + separated poly cable gland: range take | 10 - 14 | 10 - 14 |
| Gaskets | ✓ | ✓ |
| Catalog: Web link | Click ! | Click ! |

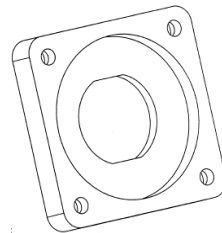
Dimensions



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



PNCX adaptor 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