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TECHNICAL DATASHEET MULTICONTACT Ex

Date: 2021-11-19
Revision: 01

MULTICONTACT Ex is a robust and compact range of multicontacts connectors for industrial purposes inended to be used in potentially explosive atmospheres (zones 1, 2, 21, 22).

The MULTICONTACT Ex range complies with the following regulations and standards(a):
European Directives ATEX (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 60079-11, IEC/EN 60079-31.

The MULTICONTACT Ex range is certified by the following certification bodies:
* PXN12C: LCIE (Europe : ATEX and International : IECEx), NANIO (Russia : TR CU), KGS (South Korea), EXPLOLABS (SOuth Africa : SANS),
* DXN25C: LCIE (Europe : ATEX and International : IECEx), NANIO (Russia : TR CU), KGS (South Korea),
* DXN37C: LCIE (Europe : ATEX and International : IECEx), NANIO (Russia : TR CU).

Ex marking:

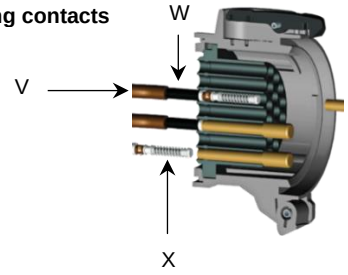
	ATEX Directive Marking / Marquage Directive ATEX	Ex Marking / Marquage Ex		T_a = Ambient temperature / Température ambiante	Temperature class / Classement en température	
					* : Gas / Gaz	** : Dust / Poussière
PXN12C	Ex II 2 G D	Ex e IIC T* Gb Ex ia/ib IIC T6 Gb Ex tb IIIC T** Db	LCIE 07 ATEX 6070 X IECEx LCIE 14.0041 X	-40°C ≤ T_a ≤ +55°C	T5	T69°C
DXN25C			LCIE 09 ATEX 3050 X IECEx LCIE 14.0040 X	-40°C ≤ T_a ≤ +40°C -40°C ≤ T_a ≤ +60°C	T6 T5	T51°C T71°C
DXN37C			LCIE 07 ATEX 6071 X IECEx LCIE 14.0038 X	-40°C ≤ T_a ≤ +40°C -40°C ≤ T_a ≤ +55°C	T6 T5	T56°C T76°C

General information	**PXN12C**	**DXN25C**	**DXN37C**
(b) I_n	10 A	10 A	10 A
U_{max} (V AC/V DC)	220 V	440 V	230 V
(c) Frequency (Hz)	≤ 500	≤ 500	≤ 500
(d;e) Number of contacts	11+E	24+E	36+E
(f) Number of keying positions	2	3	3
Connection (min - max): mm²			
Flexible conductors (Cu): main contacts	≤ 2.5	≤ 2.5	≤ 2.5
Rigid/stranded conductors (Cu): main contacts	≤ 2.5	≤ 2.5	≤ 2.5
Tightening torque - main contacts	To crimp or to weld		
Wiring lugs	✓	✓	✓
Potentially explosive atmosphere : "Gas" authorized installation zones	1, 2	1, 2	1, 2
Potentially explosive atmosphere : "Dust" authorized installation zones	21, 22	21, 22	21, 22
Potentially explosive atmosphere : Protection modes	eb, ia, tb	eb, ia, tb	eb, ia, tb
Used as connector according to IEC/EN 61984: In	10 A	10 A	10 A
U_{max} (V AC/ V DC)	220 V	440 V	230 V
Number of operations			
Mechanical	5 000	5 000	5 000
Thermal features			
Temperature of use mini/maxi (°C)	-40/+55 °C	-40/+60 °C	-40/+55 °C
Storage temperature mini/max: (°C)	-45/+100 °C	-45/+100 °C	-45/+100 °C
Maximal temperature rise (Kmax)	38 K	33 K	38 K
Potentially explosive atmosphere : "Gas" temperature class	T6/T5	T6/T5	T6/T5
Potentially explosive atmosphere : "Dust" temperature class	T69 °C	T51 °C/ T71 °C	T56 °C/ T76 °C
Mechanical features			
(g) IP: connected device	IP65/IP66	IP66/IP67	IP66/IP67
(g) IP: lid/cap closed	IP65/IP66	IP66/IP67	IP66/IP67
(g) IP: socket-outlet with lid/cap opened	IP2X	IP2X	IP2X
(h) IK	IK09	IK09	IK09
Retaining/releasing device	Release button	Double realease buttons	
Casing	Metal	Metal	Metal
Standard color	Black	Black	Black
Vibrations resistance	✓	✓	✓
Resistance to chemical agents	✓	✓	✓
Salt mist resistance	Contact us		
Screws and bolts	Stainless steel		
Weight of inlet without accessory (≈)	0.19 kg	0.38 kg	0.59 kg
Weight of socket-outlet without accessory (≈)	0.29 kg	0.60 kg	0.74 kg

PXN12C

DXN25C/DXN37C

Crimping contacts



V : isolated conductor W : isolation sleeve on
X : socket-outlet contact

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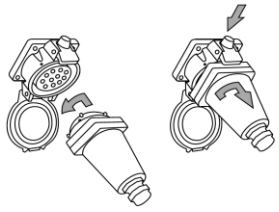
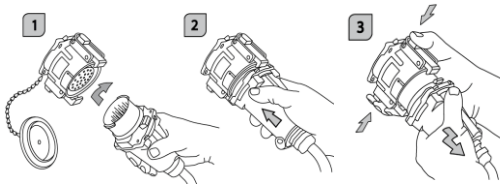
Main options	PXN12C	DXN25C	DXN37C
Inlet cap	✓	✓	✓
Screw locking	Included		
Padlockable locking pin		Included	Included
Mounting accessories			
Metal sleeve: angle (°)	45	0/30/70	0/30/70
Metal box + metal sleeve: angle (°)	45	0/30/70	0/30/70
(i) Metal straight handle + separated metal cable gland: range take (mm)	8 - 21	9 - 27	9 - 27
Spare parts			
Inlet or socket-outlet contacts	✓	✓	✓
Gaskets	✓	✓	✓
Catalog: Web link	**Click !**	**Click !**	**Click !**

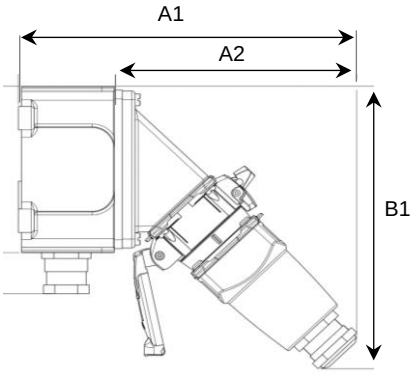
PXN12C

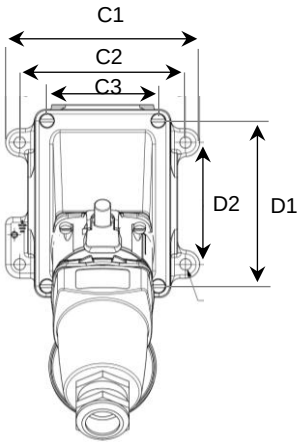


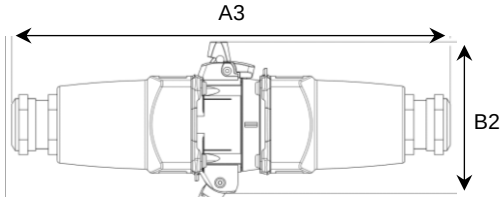
DXN25C/DXN37C



Dimensions







mm	PXN12C	DXN25C DXN37C
A1	213	299
A2	153	239
A3	246	346
B1	193	200
B2	87	108
C1	110	110
C2	94	94
C3	63	63
C4	58	80
D1	95	95
D2	70	70

(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 60079-7 : "Electrical apparatus for explosive gasatmospheres – Intrinsic safety «i»"
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) The contacts can be used either for power or signal
(f) Number of voltage / frequency / grid, keying positions
(g) IP : Degrees of protection provided by enclosures (IEC/EN 60529)
(h) IK : Degrees of protection provided by enclosures against mechanical impacts (IEC/EN 62262)
(i) Use Ex certified cable glands adapted to the intended installation zone