

DXN Z2/22 is a compact and waterproof connector for industrial purposes intended to be used in potentially explosive atmospheres (zones 2, 22).

DXN Z2/22 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 60079-31, IEC/EN 61984.

Certified by INTERTEK RETIE (Colombia). Ex marking (b) :

  	ATEX Directive Marking / Marquage Directive ATEX	Ex Marking / Marquage Ex	T <sub>a</sub> = Ambient temperature / Température ambiante	Temperature class / Classement en température	
				* : Gas / Gaz	** : Dust / Poussière
DXN1 MZ2/22	II 3 G D	MAR X 23.0002	-40°C ≤ T <sub>a</sub> ≤ +40°C -40°C ≤ T <sub>a</sub> ≤ +60°C	T6	T75°C
DXN3 MZ2/22		MAR X 23.0001	-40°C ≤ T <sub>a</sub> ≤ +40°C -40°C ≤ T <sub>a</sub> ≤ +60°C	T5	T95°C
DXN6 MZ2/22		MAR X 23.0003	-40°C ≤ T <sub>a</sub> ≤ +40°C -40°C ≤ T <sub>a</sub> ≤ +60°C	T5	T85°C

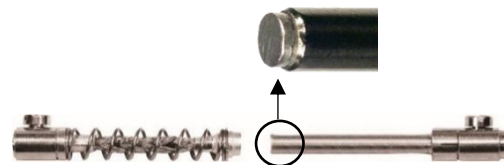
The use of DXN Z2/22 facilitates the compliance with:

- electrical machinery to the "Machinery" European Directive on isolating device, and to standard EN 60204-1 : Safety of machinery-electrical equipment of machines
- electrical installation:

\* to national regulations relating to the improvement of the safety and health of workers at work in France, Italy, Spain, Belgium,

\* to installation standards : IEC/EN 60079-14, IEC/HD 60364 (international), NFPA 70 (USA) and NF C 15-100 (French) or other national transposition of IEC/HD 60364.

General information		DXN1_Z2	DXN3_Z2	DXN6_Z2
(c)	I <sub>n</sub>	20 A	40 A	63 A
	U <sub>max</sub> (V AC/V DC)	440 V	690 V	1000 V
(d)	Frequency max. (Hz)	500 Hz	500 Hz	500 Hz
(e)	Number of contacts	4P+E	4P+E	4P+E
(f)	Number of keying positions	23	24	24
	Connection (min - max): mm <sup>2</sup>			
	Flexible conductors (Cu): main contacts	1 - 2.5	2.5 - 6	6 - 16
	Rigid/stranded conductors (Cu): main contacts	1.5 - 4	2.5 - 10	10 - 25
	Tightening torque - main contacts (Nm)	0.8 N.m	1.5 N.m	1.8 N.m
	Wiring lugs	Option	Option	Option
	Icc: conditional short circuit current (kA)			
	with gG fuse	10 kA	10 kA	10 kA
	with RK1 NTD fuse	100 kA	100 kA	100 kA
	Potentially explosive atmosphere : "Gas" authorized installation zones	2	2	2
	Potentially explosive atmosphere : "Dust" authorized installation zones	22	22	22
	Potentially explosive atmosphere : Protection	ec. tc	ec. tc	ec. tc
Auxiliaries / pilots contacts				
	I <sub>n</sub>	2 A	30 A	16 A
	U <sub>max</sub> (V AC/V DC)	250 V	400 V	400 V
(g)	Number of auxiliaries / pilots contacts	1 pil	2 aux	4 aux
	Connection (min - max): mm <sup>2</sup>			
	Flexible wiring	0.8	2.5 - 6	1 - 2.5
	Rigid/stranded conductors		2.5 - 10	1.5 - 4
	Tightening torque (Nm)		1.5 N.m	0.8 N.m
Emploi comme connecteur selon IEC/EN 61984: In		20 A	40 A	63 A
	U <sub>max</sub> (V AC / V DC)	440 V	690 V	1000 V
Number of operations				
	Mechanical	6 000	6 000	6 000
Isolating distance (mm)		10 mm	10 mm	14 mm
Thermal features				
	U <sub>max</sub> (V AC/V DC)	-40/+60 °C	-40/+60 °C	-40/+60 °C
	Storage temperature mini/max: (°C)	-45/+80 °C	-45/+80 °C	-45/+80 °C
	Maximal temperature rise (Kmax)	26 K	42 K	35 K
	Time constant (to reach 63 % of Kmax)	17 mn	21 mn	22 mn

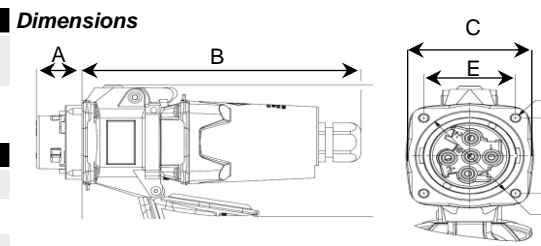


Contacts with silver nickel alloy tips (Ag/Ni : 85/15)

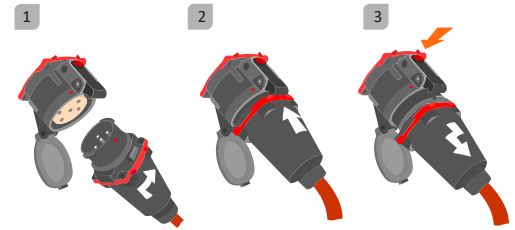


Spring assisted terminal:  
Stainless steel ring

Thermal features		DXN1_Z2	DXN3_Z2	DXN6_Z2
Potentially explosive atmosphere : "Gas" temperature class		T6/T5	T5/T4	T5/T4
Potentially explosive atmosphere : "Dust" surface temperature		T75 °C / T95 °C	T95 °C / T115 °C	T85 °C / T105 °C
Mechanical features				
(h) Watertightness : connected device		IP66/IP67	IP66/IP67	IP66/IP67
(h) Watertightness: lid/cap closed		IP66/IP67	IP66/IP67	IP66/IP67
(h) Watertightness : socket-outlet with lid/cap opened		IP4X	IP4X	IP4X
(i) IK		IK09	IK09	IK09
Retaining/releasing device		Red release button		
(i) Casing		GRP (poly)		
	Standard color	Black	Black	Black
Vibrations resistance		✓	✓	✓
Resistance to chemical agents		Contact us		
Protection against UV (according to UL 746C or equivalent)		f1	f1	f1
Salt mist resistance		> 50 000 h	> 50 000 h	> 50 000 h
Screws and bolts		Stainless steel		
Weight of inlet without accessory (≈)		0.1 kg	0.15 kg	0.2 kg
Weight of socket-outlet without accessory (≈)		0.2 kg	0.3 kg	0.4 kg
Main options				
Socket-outlet opening up to 180°		Included	Included	Included
Self-returning lid		✓	✓	✓
Inlet cap		IP66/IP67	IP66/IP67	IP66/IP67
Locking / padlocking		Included	Included	Included
Finger draw plates		✓	✓	✓
Compatibility of the inlet with an industrial socket (not Ex)		✓	✓	✓
Mounting accessories				
Poly sleeve: angle (°)		30/70	30/70	30/70
Poly box: angle (°)		30	30	30
Poly box + poly sleeve: angle (°)		70	70	70
(k) Poly straight handle + separated poly cable gland: range take (mm)		10 - 25	10 - 32	10 - 32
(k) Poly straight handle + separated metal cable gland: range take (mm)		8 - 24	8 - 24	8 - 24
Spare parts				
Inlet or socket-outlet colored gasket		✓	✓	✓
Gaskets		✓	✓	✓
Catalog: Web link		<b>Click !</b>	<b>Click !</b>	<b>Click !</b>



mm	DXN1	DXN3	DXN6
A	27	29	30
B	165	190	218
C	58	77	84
E	42	48	55



Finger draw plate



Socket-outlet opening up to 180°



- (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) These equipment can be used as intrinsically safe "simple apparatus" (Ex i)
- (c) In : Rated current as defined by the manufacturer
- (d) Other frequency: contact us
- (e) Contacts with silver-nickel tips (Ag/Ni 85/15)
- (f) Number of voltage / frequency / grid, keying positions
- (g) Auxiliaries contacts are located on the plug and socket-outlet sides. Pilot contacts are only located on the socket-outlet side
- (h) IP : Degrees of protection provided by enclosures (IEC/EN 60529)
- (i) IK : Degrees of protection provided by enclosures against mechanical impacts (IEC/EN 62262)
- (j) GRP : Glass-reinforced technical plastic
- (k) Use Ex certified cable glands adapted to the intended installation zone