

DXN DECONTACTOR™ is a compact and waterproof plug and socket-outlet for industrial purposes with integral switch intended to be used in potentially explosive atmospheres (zones 1, 2, 21, 22).

DXN DECONTACTOR™ 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 60079-1, IEC/EN 60079-7, IEC/EN 60079-31, IEC/EN 60309-1, IEC/EN 60309-4.

DXN DECONTACTOR™ is certified by the following certification bodies:

LCIE (Europe : ATEX and International : IECEx), NANIO (Russia : TR CU), CSA (Canada & USA), Bureau Veritas Brasil (Brasil : INMETRO), EXPLOLABS (South Africa : SANS), KGS (South Korea), CMLEEx (Japan), Bureau Veritas Marine (DNX1 and DNX3), SGBC (Singapore), Intertek-RETIE (Colombia).

Ex marking (b) :



	ATEX Directive Marking / Marquage Directive ATEX	Ex Marking / Marquage Ex	T _a = Ambient température / Température ambiante	Temperature class / Classement en température		
				* : Gas / Gaz	** : Dust / Poussière	
DXN1	 II 2 G D	Ex db eb IIC T* Gb Ex tb IIIC T** Db	LCIE 99 ATEX 6027 X IECEX LCI 09.0005 X	-40°C ≤ T _a ≤ +40°C -40°C ≤ T _a ≤ +60°C	T6 T5	T70°C T90°C
DXN3			LCIE 05 ATEX 6149 X IECEX LCI 09.0006 X	-40°C ≤ T _a ≤ +40°C -40°C ≤ T _a ≤ +60°C	T6 T5	T57°C T77°C
DXN6			LCIE 05 ATEX 6150 X IECEX LCI 09.0007 X	-40°C ≤ T _a ≤ +40°C -40°C ≤ T _a ≤ +60°C	T5 T4	T87°C T107°C

The use of DXN DECONTACTOR™ 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 60364 (international), HD 60364 (European), NFPA 70 (USA) and NF C 15-100 (French) or other national transposition of IEC/HD 60364.



General information		DXN1	DXN3	DXN6
(c)	I _n	20 A	32 A	63 A
	U _{max} (V AC/V DC)	550 V	750 V	750 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	24	24	24
	Connection (min - max): mm ²			
	Flexible conductors (Cu): main contacts	1 - 4	2.5 - 10	6 - 16
	Rigid/stranded conductors (Cu): main contacts	1.5 - 6	2.5 - 16	6 - 25
	Tightening torque - main contacts (Nm)	0.8 N.m	1.2 N.m	2 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	25 kA	25 kA	25 kA
	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	db. eb. tb	db. eb. tb	db. eb. tb

Auxiliaries contacts			
	I _n	5 A	5 A
	U _{max} (V AC/V DC)	550 V	550 V
(g)	Number of auxiliaries / pilots contacts	2	2
	Connection (min - max): mm ²		
	Flexible wiring	1.5 - 2.5	1.5 - 2.5
	Rigid/stranded conductors	1.5 - 4	1.5 - 4
	Tightening torque (Nm)	0.8 N.m	0.8 N.m

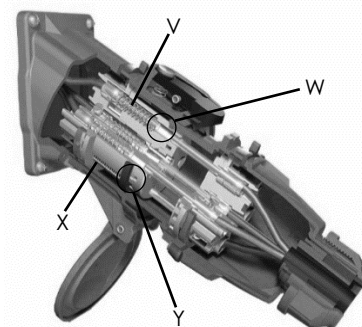
Emploi comme connecteur selon IEC/EN 61984: In		20 A	32 A	63 A
	U _{max} (V AC/V DC)	550 V	750 V	750 V

Breaking as plug and socket-outlet according to IEC/EN 60309-1				
(h)	In (A) - U _{max} (V AC)	20 - 550	32 - 690	63 - 690

Other breaking as switch according to IEC/EN 60947-3				
(h)	Category AC-22A : In (A) - U _{max} (V AC)	20 - 550	32 - 690	63 - 690
(h)	Category AC-23A : In (A) - U _{max} (V AC)	20 - 440		

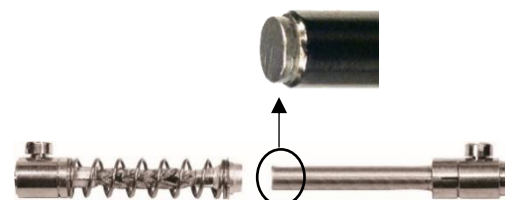
Breaking as plug and socket-outlet according to UL standard				
	Power (240 VAC - 3Ø) (hp)	7.5 hp	15 hp	20 hp

Number of operations				
	According to IEC/EN 60309-1 : Cos(Φ) 0,6	5 000	2 000	2 000
	According to UL : Cos(Φ) 0,75	6 000	6 000	6 000

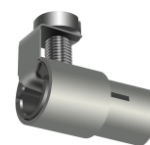


V : Contact spring
X : Ejection spring

W : Arc chamber
Y : Ejection ring



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



Spring assisted terminal:
Increased safety

	DXN1	DXN3	DXN6
Isolating distance (mm)	13 mm	13 mm	14 mm
Thermal features			
Temperature of use mini/maxi (°C)	-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)	30 K	39 K	31 K
Time constant (to reach 63 % of Kmax)	22 mn	17 mn	28 mn

Mechanical features			
(i) Watertightness : connected device	IP66/IP67	IP66/IP67	IP66/IP67
(i) Watertightness: lid/cap closed	IP66/IP67	IP66/IP67	IP66/IP67
(i) Watertightness : socket-outlet with lid/cap opened	IP4X		
(i) IK	IK09	IK09	IK09
Retaining/releasing device	Red release button		
(k) Casing	GRP (poly)		
	Standard color	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	0.2 kg	0.4 kg
Weight of socket-outlet without accessory (≈)	0.2 kg	0.4 kg	0.5 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	✓	✓	✓
Automatic self-ejection	✓	✓	✓
Larger release button ("STOP")	✓	✓	✓
Finger draw plates	✓	✓	✓
(l) 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
(m) Poly straight handle + separated poly cable gland: range take (mm)	10 - 25	10 - 32	10 - 32
(m) Poly straight handle + separated metal cable gland: range take (mm)	8 - 24	8 - 24	8 - 24

Spare parts			
Gaskets	✓	✓	✓
Catalog: Web link	Click !	Click !	Click !

(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 60079-1 : "Electrical apparatus for explosive gas atmospheres – Flameproof enclosures «d»"
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 60309-1 : "Plugs, socket-outlets and couplers for industrial purposes – Part 1: General requirements"
IEC/EN 60309-4 : "Plugs, socket-outlets and couplers for industrial purposes – Part 4: Switched socket-outlets and connectors with or without interlock"

(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) For direct current applications : contact us

(i) IP : Degrees of protection provided by enclosures (IEC/EN 60529)

(j) IK : Degrees of protection provided by enclosures against mechanical impacts (IEC/EN 62262)

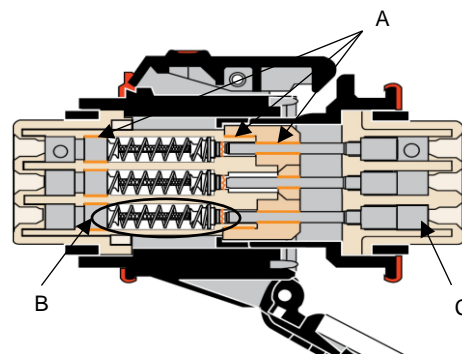
(k) GRP : Glass-reinforced technical plastic

(l) DXN/DSN compatibility allows connection but not breaking under load

(m) Use Ex certified cable glands adapted to the intended installation zone

Ex features

Connected device (rest position)

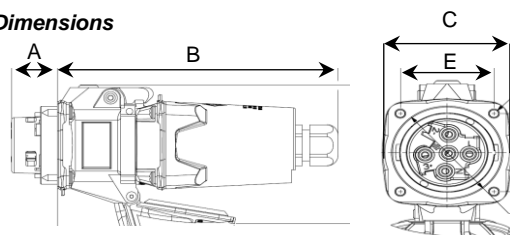


A: Flameproof paths

B: Flameproof chamber

C: Increase safety terminal

Dimensions



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

Finger draw plate



Locking pin for 2 padlocks