



MXBS SOCKET-OUTLET COMBINATION BOXES

- ▶ II 2 G D Ex e IIC
- ▶ IP66 water- and dust-tight sealing
- ▶ Up to 24 socket-outlets
- ▶ Assembly of up to 24 socket-outlets or multicontact connectors on the same enclosure



Equipped with 20 to 63 A decontactors and/or 10 A multicontact connectors, these reinforced polyester resin fiberglass and graphite loaded socket-outlet combination boxes are designed for making electrical connections in hazardous areas, offering from 12 to 37 contacts. They provide increased and intrinsic safety, allowing them to be used in zones 1 & 2 (gas), 21 & 22 (dust). This comprehensive range is perfect for wet and corrosive environments, such as food and beverage or chemical industries, thanks to its specific and high quality materials.

It is possible to mount both socket-outlets and multicontact connectors on the same box.

TECHNICAL FEATURES

ASSOCIATED MARECHAL® PRODUCTS

Decontactors	DXN1, DXN3 and DXN6
Multicontact connectors	PXN12C, DXN25C and DXN37C

ELECTRICAL FEATURES

Maximum voltage*	750 V
Maximum nominal current*	63 A
Stranded wiring (min-max)*	1,5 - 25 mm ²
Flexible wiring (min-max)*	1,5 - 16 mm ²

* depending on the socket-outlet

Junction	Terminal blocks. Feed through and loop-in loop-out connection
Cable entries and glands	M12 to M63 depending on the size of the box / Polyamide cable gland for unarmoured cable Nickel plated brass cable gland for unarmoured cable and armoured cable (with plate or washer bonding inside the box)

THERMAL SPECIFICATION

Temperature range and ratings	From -40 °C to +60 °C From -40 °C ≤ Ta ≤ +40 °C T6 to T4* From -40 °C ≤ Ta ≤ +55 °C T5 to T4* From -40 °C ≤ Ta ≤ +60 °C T4 * depending on the internal components and socket mix (consult us)
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MECHANICAL FEATURES

Degree of protection	IP66
Resistance to shocks	IK09 according to IEC and EN 62 262.
Material	Enclosure made of polyester resin reinforced with fibreglass and graphite loaded for boxes. Casing made of Heavy duty Poly for DXN1, DXN3 and DXN6 decontactors Casing made of Metal for PXN12C, DXN25C and DXN37C multicontact connectors Stainless steel screw



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ATEX MARKINGS

ATEX zones	Gas and Dust : zones 1 & 2, 21 & 22
ATEX markings	Ex II 2 G D Ex e II T4 to T6 Ex tD A21 increased safety Ex 2 G D Ex ia IIC T6 tD A21 or Ex II 2 G D Ex ib IIC T6 tD A21 intrinsically safety Ex 2 G D Ex e ia IIC T6 tD A21 or Ex II 2 G D Ex e ib IIC T6 tD A21 increased safety and intrinsic safety
Compliance with Standards	IEC EN 60079-0, 60079-1, 60079-7, 60079-11, 61241-0, 61241-1 et 60079-31
Certificates	Certificates IECEx N° IECEx LCI 11.0042 and ATEX N° LCIE 11 ATEX 3047

MAXIMUM NUMBER OF SOCKET-OUTLETS PER BOX (T6 at +40 °C ambient temperature)

Type	DXN1			DXN3			DXN6			PXN12C	DXN25C	DXN37C
	1P+N+E	3P+E	3P+N+E	1P+N+E	3P+E	3P+N+E	1P+N+E	3P+E	3P+N+E			
MXBS1	3	3	3	1	1	1	-	-	-	3	1	1
MXBS2	4	4	3	1	1	1	1*	1*	1*	3	1	1
MXBS3	7	4	3	2	2	2	1*	1*	1*	7	2	2
MXBS4	7	6	4	2	2	2	1*	1*	1*	4	1	1
MXBS5	13	9	6	4	4	4	1*	1*	1*	5	2	1
MXBS6	11	7	5	11	7	5	1	1	1	5	2	1
MXBS7	14	9	7	13	9	6	1	1	1	6	3	2
MXBS8	12	8	6	12	8	6	2	2	2	5	2	1
MXBS9	19	12	9	18	12	9	2	2	2	8	4	2
MXBS10	24	16	12	24	16	12	2	2	2	11	5	3

* T5 at 40 °C

Note : special configurations, wiring terminal blocks and a mixture of socket outlets are available. Please contact us.

Example of configuration on the MXBS7 box:

- 1 multicontact female socket-outlet DXN37C
- 1 multicontact female socket-outlet PXN12C
- 1 DECONTACTOR™ female socket-outlet DXN3 - 3P+N+E
- 1 DECONTACTOR™ female socket-outlet DXN1 - 3P+N+E

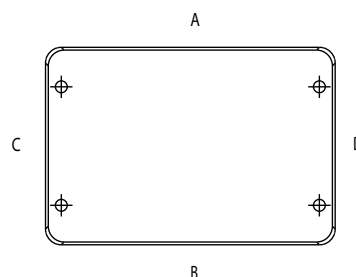
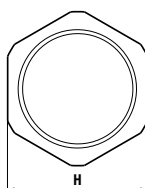
Note : in addition to mixing both power and multipin connectors, it is possible to fit both male inlets and female sockets on the same box.

MAXIMUM NUMBER OF POLY CABLE GLANDS PER SIDE (for metal cable gland for armoured cable, please contact us)

	Side	M12	M16	M20	M25	M32	M40	M50	M63
		(H = 15 mm)	(H = 22 mm)	(H = 24 mm)	(H = 33 mm)	(H = 42 mm)	(H = 53 mm)	(H = 60 mm)	(H = 70 mm)
MXBS1	A/B	15	6	6	2	2	-	-	-
	C/D	5	2	1	1	1	-	-	-
MXBS2	A/B	12	5	4	2	1	1	-	-
	C/D	12	5	4	2	1	1	-	-
MXBS3	A/B	32	14	12	6	3	2	-	-
	C/D	12	5	4	2	1	1	-	-
MXBS4	A/B	26	14	9	6	3	2	2	-
	C/D	18	8	6	3	2	1	1	-
MXBS5	A/B	72	38	26	16	7	5	4	-
	C/D	18	8	6	3	2	1	1	-
MXBS6	A/B	69	32	24	12	8	4	3	3
	C/D	51	24	18	10	7	3	3	2
MXBS7	A/B	117	56	42	21	14	7	5	5
	C/D	50	22	18	10	6	3	2	2
MXBS8	A/B	108	52	36	18	12	6	4	4
	C/D	50	24	18	10	7	3	3	2
MXBS9	A/B	117	56	42	21	14	7	5	5
	C/D	95	46	36	18	13	6	5	4
MXBS10	A/B	215	102	81	43	26	18	11	10
	C/D	256	158	123	65	40	27	18	14

ACCESSORIES ON DEMAND

- Inclined sleeve
- Earth stud
- Earth bar
- Hinges
- Mounting brackets

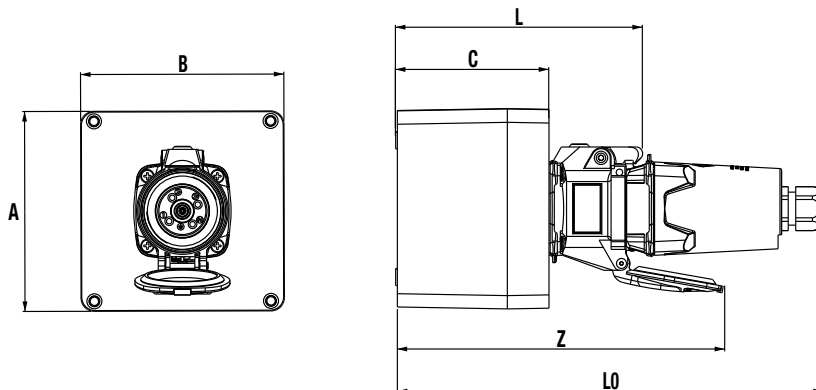


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DIMENSIONS AND FIXING

	A x B x C (in mm)	E1 x E2 x Ød	L	L0	Z	Type
MXBS1	75 x 110 x 75	45 x 98 x 4,5	131	240	179	DXN1
			151	260	184	DXN3
			110	220	140	PXN12C
MXBS2	120 x 122 x 91	82 x 106 x 6,5	147	256	195	DXN1
			167	275	200	DXN3
			170	309	241	DXN6
			126	236	156	PXN12C
			163	306	-	DXN25C
			163	306	-	DXN37C
MXBS3	120 x 220 x 91	82 x 204 x 6,3	147	256	195	DXN1
			167	275	200	DXN3
			170	309	241	DXN6
			126	236	156	PXN12C
			163	306	-	DXN25C
			163	306	-	DXN37C
MXBS4	160 x 160 x 91	110 x 140 x 6,5	147	256	195	DXN1
			167	275	200	DXN3
			170	309	241	DXN6
			126	236	156	PXN12C
			163	306	-	DXN25C
			163	306	-	DXN37C
MXBS5	160 x 360 x 91	110 x 340 x 6,5	147	256	195	DXN1
			167	275	200	DXN3
			170	309	241	DXN6
			126	236	156	PXN12C
			163	306	-	DXN25C
			163	306	-	DXN37C
MXBS6	250 x 255 x 121	200 x 235 x 6,5	177	286	225	DXN1
			197	305	230	DXN3
			200	339	271	DXN6
			156	266	186	PXN12C
			193	336	-	DXN25C
			193	336	-	DXN37C
MXBS7	250 x 400 x 121	200 x 380 x 6,5	177	286	225	DXN1
			197	305	230	DXN3
			200	339	271	DXN6
			156	266	186	PXN12C
			193	336	-	DXN25C
			193	336	-	DXN37C
MXBS8	250 x 600 x 121	200 x 580 x 6,5	177	286	225	DXN1
			197	305	230	DXN3
			200	339	271	DXN6
			156	266	186	PXN12C
			193	336	-	DXN25C
			193	336	-	DXN37C
MXBS9	405 x 400 x 121	355 x 380 x 6,5	177	286	225	DXN1
			197	305	230	DXN3
			200	339	271	DXN6
			156	266	186	PXN12C
			193	336	-	DXN25C
			193	336	-	DXN37C
MXBS10	405 x 605 x 257	320 x 500 (to drill)	313	422	361	DXN1
			333	441	366	DXN3
			336	475	407	DXN6
			292	402	322	PXN12C
			329	472	-	DXN25C
			329	472	-	DXN37C



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