

Industrial multipole connectors

6/10/16/24/48 pole

revos Ex

Technical Data

■ Approvals

BVS

■ Applicable standards

IEC 61 984

■ Contact inserts

Rated current

16 A

Rated voltage

90 V

No. of poles

6-, 10-, 16-, 24-,

48 pole (2x24), + earth

Screw connection

0.5 – 2.5 mm² / 20 – 12 AWG

Degree of pollution

3

Temperature range

–40 to +110 °C

■ Contact

Materials

copper alloy

Surface

tin plated

■ Hoods and housings

Material

die cast zinc alloy

Surface finish

light blue, silicon-free, powder coated

Locking levers

zinc plated steel

Gaskets

NBR

Temperature range

–40 to +110 °C

Degree of protection

DIN EN 60 529

IP 55

Industrial multipole connector

6/10/16/24/48 pole

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Description of system

- ☐ used in the construction of control and switching installations, in intrinsically safe electrical installations
- ☐ BVS tested and approved EEx'la'
- ☐ reliable connecting elements for power and control circuits
- ☐ robust blue coloured housing made of zinc die cast alloy
- ☐ internal contact inserts protected against mechanical and harmful industrial influences
- ☐ locked housing corresponds with EN 60 529 and IEC 60 529, 2nd edition: IP 55 (protection against dust and jet water)

Protective cover

- ☐ hoods/housings with/without hinged protective cover

Materials

Housings

- ☐ hood/housings: zinc die cast alloy with blue hammer finish

Housing base:

- ☐ housing, open base: cable entry from below
- ☐ housing, closed base: cable entry from the side
- ☐ housing, open base: with protective cover
- ☐ housing, closed base: with protective cover
- ☐ with screw connection for cable gland

DQS certification for all product areas

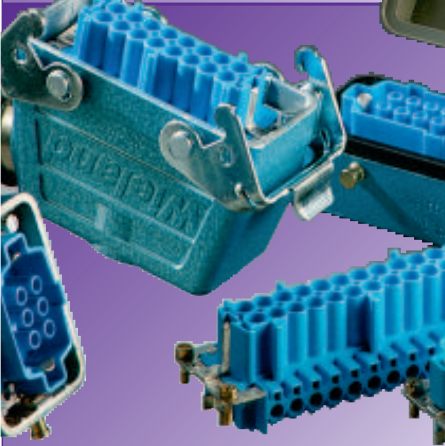
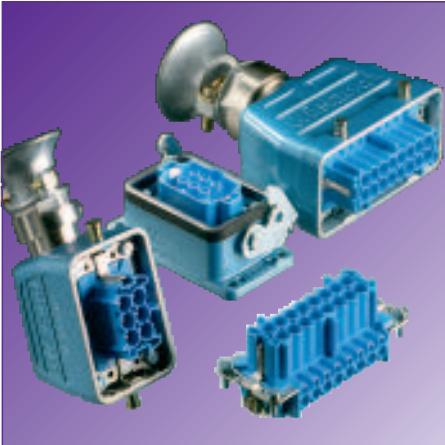
- ☐ standard of quality in accordance with DIN ISO 9001
- ☐ in design, production and assembly
- ☐ permanent testing of the standard of quality means of regular internal and external quality audits
- ☐ in line with certificates from the following countries:
 - BSI, Great Britain
 - SQS, Switzerland
 - Aib-Vincotte, Belgium
 - ÖQS, Austria

Coupling housing – cable-to-cable connections

- ☐ low and high design
- ☐ locking facility with 1 lever on wide side (6- and 48 pole)
- ☐ locking facility with 2 levers on the narrow side (10, 16 and 24 pole)

Plug and socket insert:

- ☐ Insulated parts manufactured from Polyamide, glass filled (Technical Data: **facts & DATA**)



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- housing combination with low open housing in zinc die cast alloy



- housing combination with high closed housing in zinc die-cast alloy



- housing combination with low open housing with protective cover in zinc die cast alloy or conductive metal die cast alloy



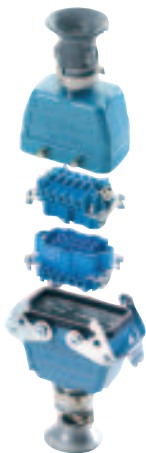
- housing with combination with high closed housing with protective cover in zinc die cast alloy



- housing combination with 2 hoods as cable to cable connection, with locking device on the narrow side in zinc die cast alloy



Industrial multipole connectors
Plug and socket inserts 90 V
revos Ex



90 V

IP 55 Protection
Multipole connections for intrinsically safe EEx ia, colour blue

		Rated current	Cross section	Approvals	Stripping length	Box Qty
Screw connection 	Socket insert	16 A	0.5 – 2.5 mm ² 20 – 12 AWG	EEx ia	7 mm	10
Screw connection 	Plug insert	16 A	0.5 – 2.5 mm ² 20 – 12 AWG	EEx ia	7 mm	10

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6 pole + earth	10 pole + earth	16 pole + earth	24 pole + earth	48 pole + earth	
Part No.	Part No.	Part No.	Part No.	Part No.	
72.300.0653.9	72.300.1053.9	72.300.1653.9	72.300.2453.9	72.300.4853.9	
72.310.0653.9	72.310.1053.9	72.310.1653.9	72.310.2453.9	72.310.4853.9	

Modular Industrial multipole connectors

Hoods with single and double locking levers

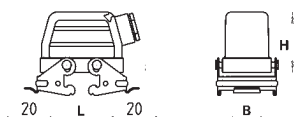
revos Ex



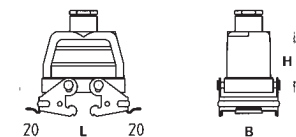
90 V		IP 55 Protection					
		Multipole connectors for intrinsic systems EEx ia					
No. of poles	Thread	Cable gland type	Dimensions in mm	L	W	H	Box Qty
Size 6 for multipole connector 6 pole + earth	Pg 13.5	7 with Pg thread 9 with strain relief		60	43	47.5	1
	Pg 16	7 with Pg thread 9 with strain relief		60	43	47.5	1
Size 10 for multipole connector 10 pole + earth	Pg 16	7 with Pg thread 9 with strain relief		73	43	53	1
	Pg 21	7 with Pg thread 9 with strain relief		73	43	53	1
Size 16 for multipole connector 16 pole + earth	Pg 21	7 with Pg thread 9 with strain relief		93.5	43	60	1
	Pg 29	7 with Pg thread 9 with strain relief		93.5	43	60	1
Size 24 for multipole connector 24 pole + earth	Pg 21	7 with Pg thread 9 with strain relief		120	43	70	1
	Pg 29	7 with Pg thread 9 with strain relief		120	43	70	1
Size 48 for multipole connector 48 pole + earth	Pg 29	7 with Pg thread 9 with strain relief		132	90	107	1
	Pg 32	7 with Pg thread 9 with strain relief		132	90	107	1

revos

Hood version D



Hood version F



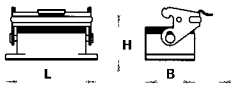
Hood	Hood	Hood with locking levers	Hood with locking levers	
Hood version A	Hood version C	Hood version D	Hood version F	
				
Part No.	Part No.	Part No.	Part No.	
70.350.0628.7 70.360.0628.9	70.352.0628.7 70.362.0628.9			
70.363.0628.9	70.354.0628.7 70.364.0628.9			
70.350.1028.7 70.360.1028.9	70.352.1028.7 70.362.1028.9	70.355.1028.7 70.365.1028.9	70.367.1028.9	
70.363.1028.9	70.354.1028.7 70.364.1028.9	70.368.1028.9	70.369.1028.9	
70.350.1628.7 70.360.1628.9	70.352.1628.7 70.362.1628.9	70.355.1628.7 70.365.1628.9	70.367.1628.9	
70.363.1628.9	70.354.1628.7 70.364.1628.9	70.368.1628.9	70.359.1628.7 70.369.1628.9	
70.350.2428.7 70.360.2428.9		70.365.2428.9	70.367.2428.9	
70.363.2428.9	70.354.2428.7	70.358.2428.7 70.368.2428.9		
70.350.4828.7 70.360.4828.9	70.352.4828.7 70.362.4828.9			
70.353.4828.7	70.354.4828.7 70.364.4828.9			

Industrial multipole connectors

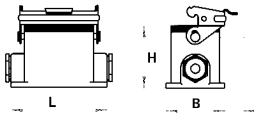
Housings with single and double locking levers

revos Ex

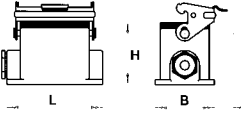
Housing version a



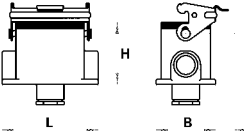
Housing version b



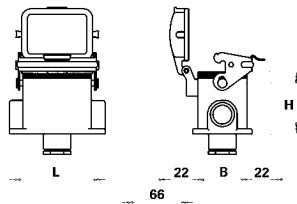
Housing version c



Housing version d

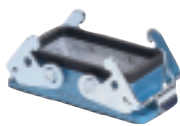


Housing version i



Open housing

Housing version a



Closed housing with two side entry cable glands

Housing version b



Closed housing with one side entry cable gland on the left

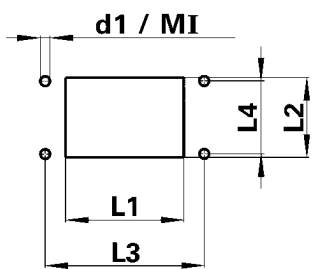
Housing version c



90 V

IP 55 Protection
Multipole connectors for intrinsic systems EEx ia

No. of poles	Thread	Cable gland type	L	B	H	Box Qty	Part No.	Part No.	Part No.
Size 6 for multipole connector 6 pole + earth	Pg 16	9 with cable gland	80	43	28	1	70.320.0628.9	70.330.0628.9	70.331.0628.9
Size 10 for multipole connector 10 pole + earth	Pg 16	9 with cable gland	93	43	28	1	70.320.1028.9	70.330.1028.9	70.331.1028.9
Size 16 for multipole connector 16 pole + earth			113	43	28	1	70.320.1628.9		
Size 24 for multipole connector 24 pole + earth	Pg 21	9 with cable gland	140	43	44	1	70.320.2428.9	70.330.2428.9	70.331.2428.9
Size 48 for multipole connector 48 pole + earth	Pg 29	9 with cable gland	165	90	44	1	70.320.4828.9		70.331.4828.9
	Pg 36	9 with strain relief	146	120	99	1			

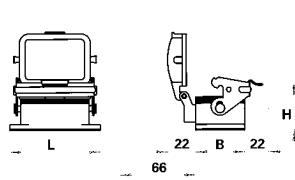


Mounting dimensions and cut-outs for open housings

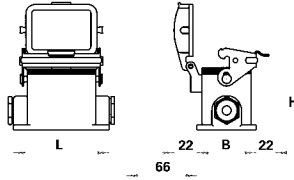
Size	Cutout		Mounting dimensions(mm)		d1		MI
	L1	L2	L3	L4			
6	52	70	32	35	4.3		M 4
10	65	83	32	35	4.3		M 4
16	85.5	103	32	35	4.3		M 4
24	112	130	32	35	4.3		M 4
48	117	148	70	81	6.4		M 6

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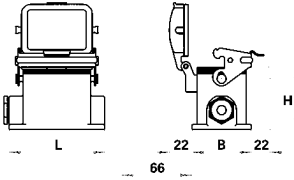
Housing version e



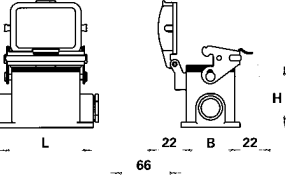
Housing version f



Housing version g



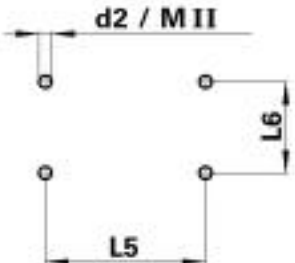
Housing version h



Closed housing with cable gland underneath	Open housing with protective cover	Closed housing with two side entry cable glands and protective cover	Closed housing with one side entry cable gland on the left and protective cover	Closed housing with one side entry cable gland on the right and protective cover	Closed housing with one cable gland entry underneath and protective cover
Housing version d	Housing version e	Housing version f	Housing version g	Housing version h	Housing version i
					
Part No.	Part No.	Part No.	Part No.	Part No.	Part No.
70.333.0628.9	70.325.0628.9	70.340.0628.9	70.341.0628.9	70.342.0628.9	70.343.0628.9
70.333.1028.9	70.325.1028.9	70.340.1028.9	70.341.1028.9	70.342.1028.9	70.343.1028.9
	70.325.1628.9				
70.333.2428.9	70.325.2428.9	70.340.2428.9	70.341.2428.9	70.342.2428.9	70.343.2428.9
	70.325.4828.9		70.341.4828.9		
			70.344.4828.9		

Size	L5	L6	d2	MII
6	70	40	5.5	M 5
10	82	40	5.5	M 5
16	105	45	5.5	M 5
24	132	45	5.5	M 5
48	111	106	6.5	M 6

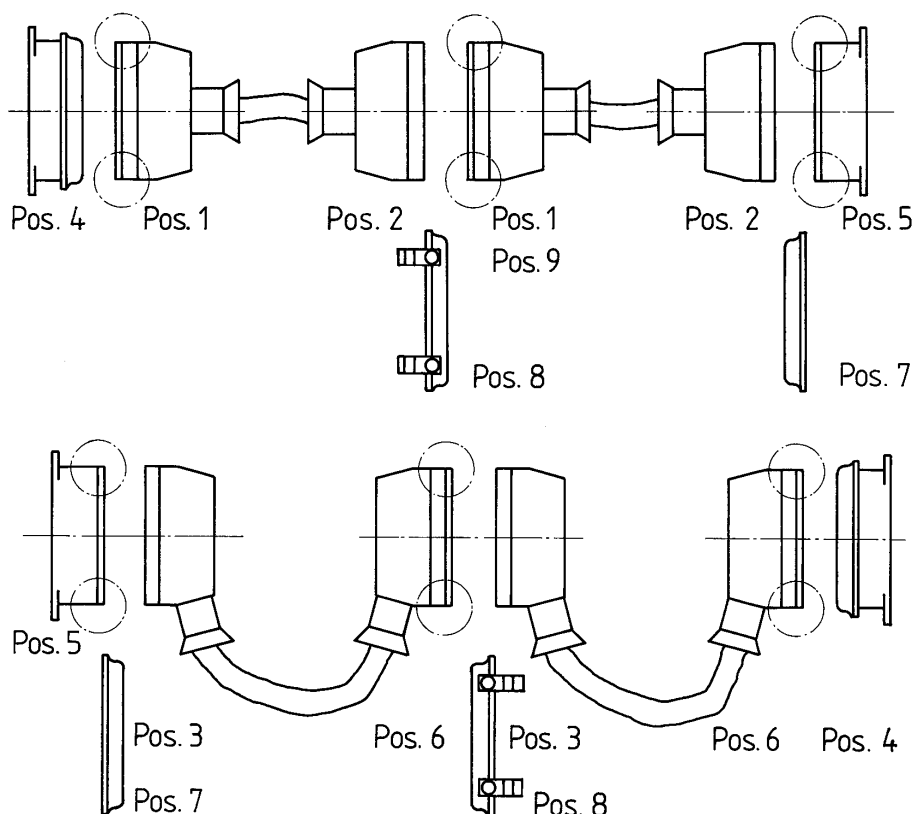
Mounting dimensions for closed housings



Special combination for cable to cable couplings

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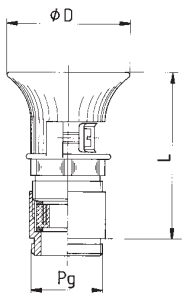
		Socket insert	Plug insert	Hood with strain relief, locking lever and gasket	Hood with strain relief without locking lever
				Pos. 1 	Pos. 2 
No. of poles	Thread	Part No.	Part No.	Part No.	Part No.
6 + PE	Pg 13.5	72.300.0653.9	72.310.0653.9	99.701.3329.7	70.362.0628.9
6 + PE	Pg 16	72.300.0653.9	72.310.0653.9	99.721.3329.7	70.364.0628.9
10 + PE	Pg 16	72.300.1053.9	72.310.1053.9	99.707.3329.7	70.362.1028.9
10 + PE	Pg 21	72.300.1053.9	72.310.1053.9	99.727.3329.7	70.364.1028.9
16 + PE	Pg 21	72.300.1653.9	72.310.1653.9	99.703.3329.7	70.362.1628.9
16 + PE	Pg 29	72.300.1653.9	72.310.1653.9	99.723.3329.7	70.364.1628.9
24 + PE	Pg 29	72.300.2453.9	72.310.2453.9	99.705.3329.7	70.362.2428.9
48 + PE	Pg 29	72.300.4853.9	72.310.4853.9	70.377.4828.9	70.375.4828.9



Mounting examples

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Hood with strain relief without locking lever Pos. 3	Open housing with gasket and protective cover Pos. 4	Open housing with locking lever and gasket Pos. 5	Hood with strain relief, locking lever and gasket Pos. 6	Hood with Pg thread only, locking lever and gasket Pos. 9 (Do not combine with Pos. 4)	Hood with Pg thread only, without locking levers Pos. 2
					
Part No.	Part No.	Part No.	Part No.	Part No.	Part No.
70.360.0628.9	99.700.3329.7	70.320.0628.9	99.710.3329.7	70.372.0628.7	70.352.0628.7
70.363.0628.9	99.700.3329.7	70.320.0628.9		–	70.354.0628.7
70.360.1028.9	99.706.3329.7	70.320.1028.9	99.711.3329.7	70.372.1028.7	70.352.1028.7
70.363.1028.9	99.706.3329.7	70.320.1028.9	–	–	70.354.1028.7
70.360.1628.9	99.702.3329.7	70.320.1628.9	99.713.3329.7	70.372.1628.7	70.352.1628.7
70.363.1628.9	99.702.3329.7	70.320.1628.9	–	–	70.354.1628.7
70.360.2428.9	99.704.3329.7	70.320.2428.9	99.716.3329.7	70.372.2428.7	70.352.2428.7
70.360.4828.9		70.320.4828.9		70.372.4828.7	70.352.4828.7



☐ Strain relief with locking ring

Part No.	Cable entry sizes		ϕ
	L	Pg	ϕD
Z5.509.0529.0	44.6	13.5	35
Z5.508.8129.0	56.6	16	35
Z5.508.8229.0	63.1	21	353
Z5.508.8329.0	66.6	29	5
Z5.509.0829.0	89.6	36	81