

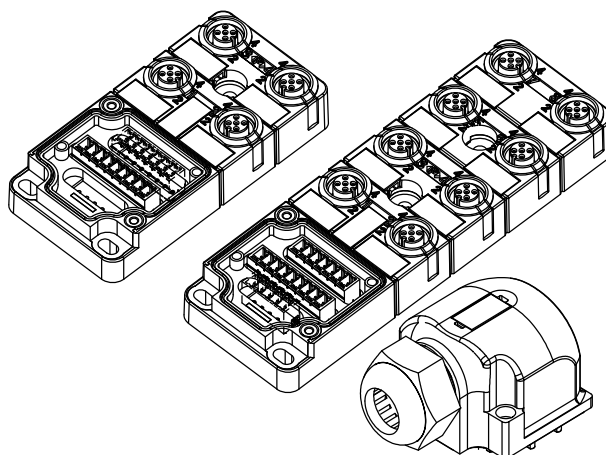
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Document	Version
Product Data	1.0

Murrelektronik-Distributor

- Exact12 distribution box with plug-in cap
- 4 or 8 female M12-sockets
- 4-pole for 1 signal or 5-pole for 2 signals
(T-couplers or Y-connectors can be used)

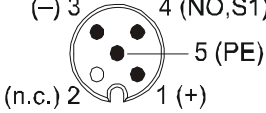
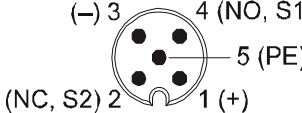


Planning information, background information and accessories can be found at:
shop.murrelektronik.com

1 Electrical data

Nominal voltage	DC 24 V (18 V ... 30.2 V) SELV/PELV (UL: Class 2)
Nominal current per contact	≤4 A (UL: 4 A)
Total current	≤2 x 8 A (UL: 8 A)
Impuls withstand voltage	0.8 kV
Volume resistance per contact	≤5 mΩ

Connection	
Power indicator	LED green
Status indicator	LED yellow, signal 1 PNP LED white, signal 2 PNP

Contact assignment M12-sockets	4-pole	5-pole
NO, S1 = normally open, signal 1 NC, S2 = normally closed, signal 2 n.c. = not connected		

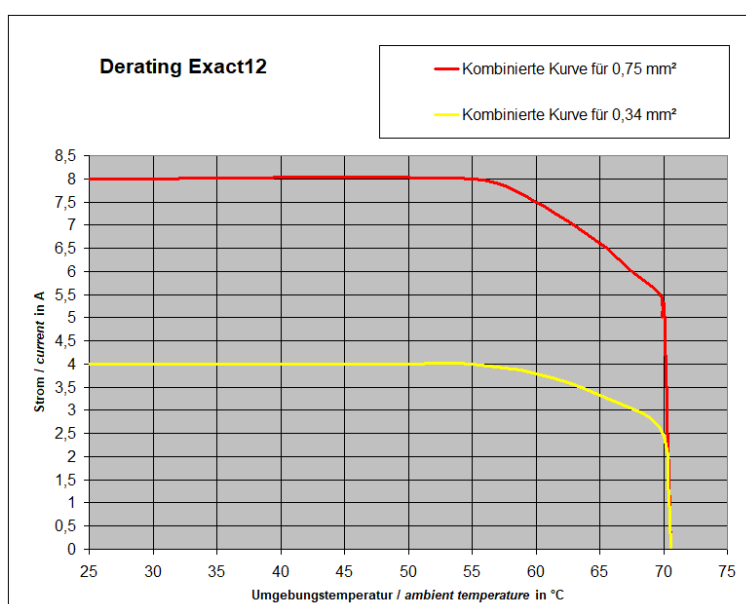
Distribution box 4xM12	Art.-No. 8000-	Weight in g	Art.-No. 8000-	Weight in g
Basic module without cap	84400	76	84500	78
Basic module cap with spring cage terminals	84440	153	84540	157
Basic module cap with screw terminals	84450	153	84550	157
Basic module with potential separation without cap			84600	78
Basic module with potential separation cap with screw terminals			84650	157
	-0000000		-0000000	

Distribution box 8xM12	Art.-No. 8000-	Weight in g	Art.-No. 8000-	Weight in g
Basic module without cap	88400	125	88500	127
Basic module cap with spring cage terminals	88440	200	88540	204
Basic module cap with screw terminals	88450	200	88550	204
Basic module with potential separation without cap			88600	127
Basic module with potential separation cap with spring cage terminals			88640	204
Basic module with potential separation cap with screw terminals			88650	161
	-0000000		-0000000	

Distribution box 8xM12 with V2A screw	Art.-No. 8002-	Weight in g
Basic module with potential separation; cap with screw terminals	88650*	207
* Article has no CE or UKCA	-0000000	

2 Environmental characteristics

Distribution box		
Ambient temperature range		-20 °C ... see Derating
Vibration resistance	EN 60068-2-6	5 Hz ... 58 Hz; const. amplitude 0,75 mm 58 Hz ... 500 Hz; const. acceleration 10 g
Shock resistance	EN 60068-2-27	50 g, 11 ms Dauer
Connecting cable		
Clamping range of screwed gland		8.5 mm ... 12.5 mm, 12.5 mm ... 14.0 mm depending on the gasket
Connecting cross section of spring cage terminals		0.2 mm ² ... 1.5 mm ²
Connection cross section of screw terminals		0.14 mm ² ... 1.5 mm ² ; stripping length 7 mm



3 Protection

Protection class	EN 60529, when screwed down	IP65
	EN 60529, when screwed down	IP67
Pollution degree		3
Material group	EN 60664-1	Category III
Insulation resistance		>10 ⁹ Ω

4 Mechanical data

Materials	Housing	TPU colourless, PA UL 94HB black
	Cap	PBT self-extinguishing, black
	Contact carrier	PA UL 94HB black
	Contact	gold-plated
	Gasket	TPU colourless
Thread	according to IEC	M12x1

Dimensions

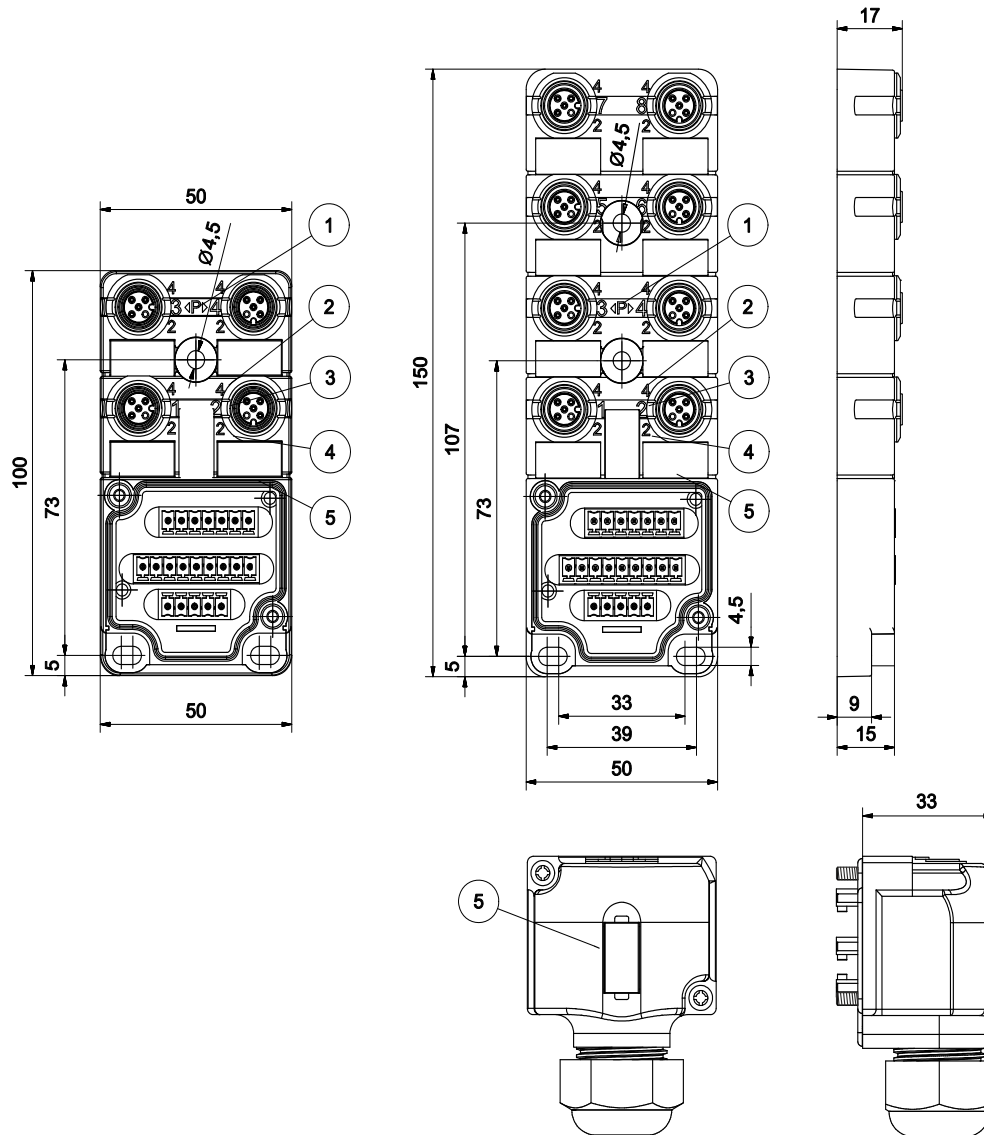


Fig. 4-1: Dimensions in mm, drawing not to scale

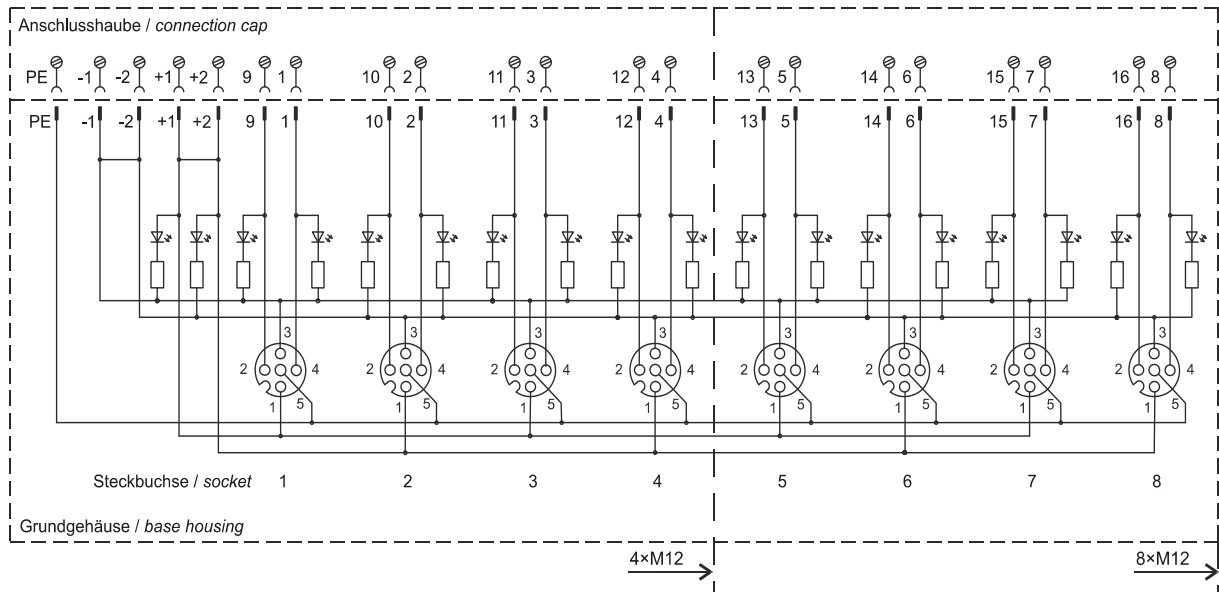
- 1 LED green for operation display
- 2 LED yellow for signal 1 (contact 4)
- 3 Numbering socket
- 4 LED white for signal 2 (contact 2)
- 5 Label plate

Fastening torques

- M12 connector: 0.6 Nm +0.1 Nm
- M12 blind plug: 0.6 Nm +0.1 Nm
- M3 screw for cap: 0.5 Nm +0.1 Nm
- M4 fastening screw: 0.8 Nm -0.2 Nm
- Cap nut cable gland: 3.3 Nm ±0.2 Nm
- M2 screw terminal: 0.22 Nm

5 Installation

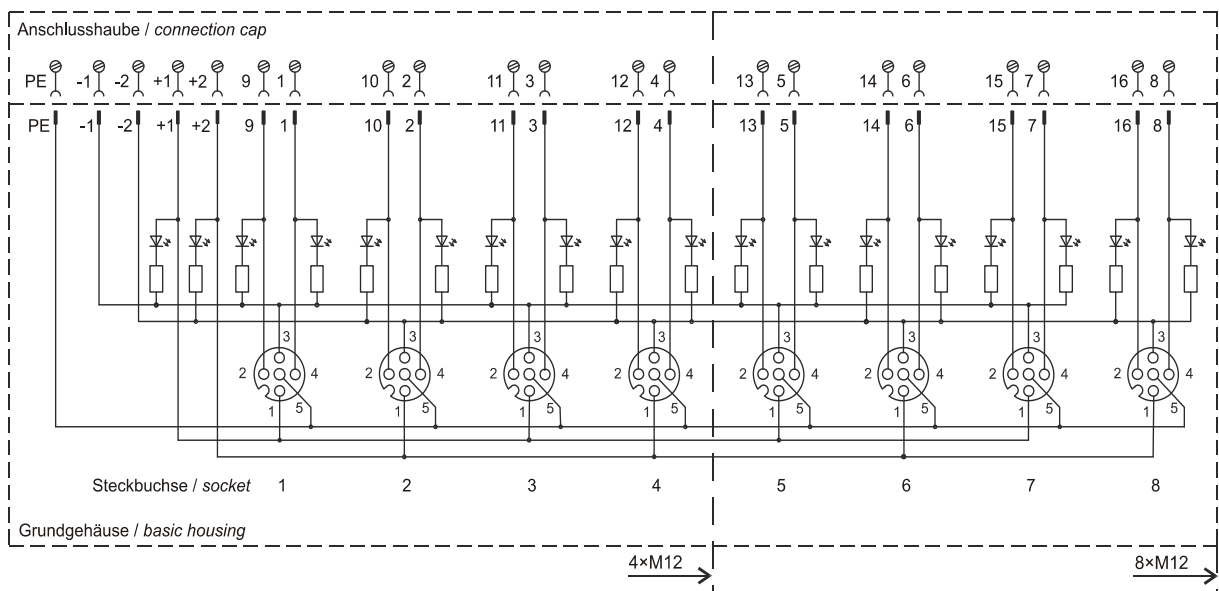
Schematic diagram



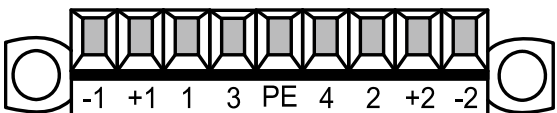
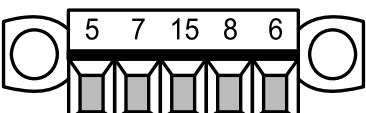
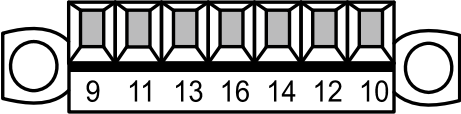
NOTE

M12-socket 4-pole: contact 2 not connected.

Schematic diagram with potential separation



Connection

Terminal/ Number of contacts	Terminal No.	M12 4-pole port/contact	M12 5-pole port/contact	M12 5-pole with potential separation port/contact
9-pole 	1	1/4	1/4	1/4
	2	2/4	2/4	2/4
	3	3/4	3/4	3/4
	4	4/4	4/4	4/4
	+1	1-4/1	1-8/1	1,3,5,7/1
	+2	1-4/1	1-8/1	2,4,6,8/1
	-1	1-4/3	1-8/3	1,3,5,7/3
	-2	1-4/3	1-8/3	2,4,6,8/3
	PE	1-4/5	1-8/5	1-8/5
5-pole 	5	5/4	5/4	5/4
	6	6/4	6/4	6/4
	7	7/4	7/4	7/4
	8	8/4	8/4	8/4
	15		7/2	7/2
7-pole 	9		1/2	1/2
	10		2/2	2/2
	11		3/2	3/2
	12		4/2	4/2
	13		5/2	5/2
	14		6/2	6/2
	16		8/2	8/2

6 Accessories

Designation	Art.-No.
Blind cap M12, 4pieces	56952
LABEL PLATE FOR USE WITH MVP 17X9 mm, white, 2 sets=12 pieces	996050

7 Conformity, Approvals

Conformity, approvals		
CE	2011/65/EU	EU-Doc
UKCA	The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012	
cULus	IND. CONT. EQ 54PM; Use Class 2 Source Only; For use in NFPA 79 Applications only; Adapters providing field wiring means are available from the manufacturer; Refer to manufacturers information; Maximum surrounding air temperature rating: 40 °C	E201820
RoHS	2011/65/EU & 2015/863	
China RoHS	SJ/T 11364-2014	25 EPUP