

Logic distributor for sensors

- with plug connector M12
- logical function via DIP switch

M12 Potted Logical

4-way, 8-way



Contact layout

M12 female:

- Contact 1: (+)
Contact 2: (N/C)/(S2)
Contact 3: (–)
Contact 4: (N/O)/(S1)
Contact 5: (PE)

M12 male
5-pole



M12 female
5-pole



Ordering data

Distribution box 4-way, 5-pole

Art.-No.

276477

Distribution box 8-way, 4-pole or Y-function

Art.-No.

276247

Technical data

Nominal voltage	24 V DC (10...30 V DC)
Current per contact	max. 35 mA
Power supply sensor (contact 1)	max. 800 mA short-circuit and overload protected
Max. output current M12 male	400 mA
Output protection	< 700 mA short-circuit and overload protected

General data

Indicator	green LED: output S2 and input "reset" (sockets 1, 3, 5, 7); yellow LED: output S4 and input "feed" (sockets 2, 4, 6, 8); red LED: input voltage
Temperature range	-10...+50 °C
Protection	IP67, when plugged and screwed down

Description

Sensors are electrically combined in the distributor and being lead as a whole to the control via an M12 cable. Logical function 1 x 8 AND/NOR, 2 x 4 AND, 2 x 4 XOR can be chosen via DIP-switch. Not used M12 female can be switched off. Pre-connection reduces cable cost, PLC-input, as well as program cycle time.

4-way distribution box, M12 female (2 signals each port) for double assignment

8-way distribution box, M12 female, Y-function for double assignment:

- 5-pole (2 signals each port) sockets 1, 3, 5 and 7 needs to be sealed with a protection cap
- 4-pole (1 signal each port)

Accessories

page 1.12.5

Notes

Manual Art.-No. 276584.
Technical data in chapter 1.3.

Distribution box for sensors and actuators

- with pre-wired cable
- with 19-pole plug connector M23

M12 Potted

4-way, 6-way, 8-way
with pre-wired cable



M12 Potted

4-way, 6-way, 8-way
with plug connector M23



Contact layout

General:

- Contact 1: (+)
Contact 2: (N/C)/(S2)
Contact 3: (–)
Contact 4: (N/O)/(S1)
Contact 5: (PE)

without LED

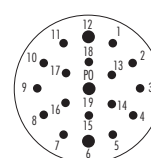
M12 female
5-pole



M12 female
5-pole



M23 male
19-pole



Distribution box 4-way		Art.-No.	Art.-No.	Art.-No.
connection cable	cable length	PUR CNOMO	PVC CNOMO	
	5.0 m	276839	276056	
8 x 0.34/3 x 1.0 mm ²	10.0 m	276840	276055	
	15.0 m	276841	276309	
plug connector M23				276315
Distribution box 6-way		Art.-No.	Art.-No.	Art.-No.
connection cable	cable length	PUR CNOMO	PVC CNOMO	
	5.0 m	276842	276460	
12 x 0.34/3 x 1.0 mm ²	10.0 m	276843	276461	
	15.0 m	276844	276462	
plug connector M23				276459
Distribution box 8-way		Art.-No.	Art.-No.	Art.-No.
connection cable	cable length	PUR CNOMO	PVC CNOMO	
	5.0 m	276845	276058	
16 x 0.34/3 x 1.0 mm ²	10.0 m	276846	276057	
	15.0 m	276847	276311	
plug connector M23				276314
Accessories				Art.-No.
Blind plug for empty sockets		plastic		58627
Snap foot for DIN-rail		with fixing bolts		27905
Label plate		1 piece, (Murrplastik KSS 20 x 9)		90900
Female connector M23	cable length		PUR CNOMO	PVC CNOMO
19-pole	5.0 m		276833	276390
16 x 0.34/3 x 1.0 mm ²	10.0 m		276834	276391
for distribution box 8-way	15.0 m		276835	276392

Notes

Other versions on request.
Technical data chapter 1.3.

Distribution box for sensors and actuators

– with pre-wired cable

M12 Potted

4-way, 6-way, 8-way
with pre-wired cable



Approvals: 

Contact layout

General:

Contact 1: (+)
Contact 2: (N/C)/(S2)
Contact 3: (–)
Contact 4: (N/O)/(S1)
Contact 5: (PE)

M12 female
4-pole



M12 female
5-pole



Distribution box 4-way		Art.-No.	Art.-No.
connection cable	cable length		
PUR/PVC	3.0 m	27857	27832
4 x or 8 x 0.34/	5.0 m	27858	27833
3 x 0.75 mm ²	10.0 m	27859	27834
	15.0 m	27860	27835
Distribution box 6-way		Art.-No.	Art.-No.
connection cable	cable length		
PUR/PVC	3.0 m	27861	27842
6 x or 12 x 0.34/	5.0 m	27862	27843
3 x 0.75 mm ²	10.0 m	27863	27844
	15.0 m	27864	27845
Distribution box 8-way		Art.-No.	Art.-No.
connection cable	cable length		
PUR/PVC	1.0 m		
8 x or 16 x 0.34/	3.0 m	27865	27852
3 x 0.75 mm ²	5.0 m	27866	27853
	10.0 m	27867	27854
	15.0 m	27868	27855
Accessories		Art.-No.	
Blind plug for empty sockets	plastic	58627	
Snap foot for DIN-rail	with fixing bolts	27905	
Label plate	1 pieces, (Murrplastik KSS 20 x 9)	90900	
Female connector M23	19-pole	chapter 1.6.	

Notes

Other versions on request.
Technical data in chapter 1.3.

Distribution box for sensors and actuators

- with plugged connection cable
- with pre-wired cable
- potential separation via pluggable jumpers

MVP12

4-way, 6-way, 8-way
with plugged connection cable



MVP12

8-way
with pre-wired cable



Approvals:

Contact layout					
General:		M12 female 4-pole	M12 female 5-pole	M12 female 5-pole	M12 female 5-pole
Contact 1:	(+)				
Contact 2:	(N/C)/(S2)				
Contact 3:	(-)				
Contact 4:	(N/O)/(S1)				
Contact 5:	(PE)				
with LED for PNP-signals 24 V DC				with potential separation	
Distribution box 4-way		Art.-No.	Art.-No.	Art.-No.	Art.-No.
connection cable	cable length				
PUR/PVC	3.0 m	27011	27025	27071	
4 x or 8 x 0.34/	5.0 m	27012	27026	27072	
3 x or 5 x 0.75 mm ²	10.0 m	27013	27027	27073	
	15.0 m	27014	27028	27074	
Distribution box 6-way		Art.-No.	Art.-No.	Art.-No.	Art.-No.
connection cable	cable length				
PUR/PVC	3.0 m	27015	27031	27075	
6 x or 12 x 0.34/	5.0 m	27016	27032	27076	
3 x or 5 x 0.75 mm ²	10.0 m	27017	27033	27077	
	15.0 m	27018	27034	27078	
Distribution box 8-way		Art.-No.	Art.-No.	Art.-No.	Art.-No.
connection cable	cable length				
PUR/PVC	3.0 m	27021	27035	27081	5127035
8 x or 16 x 0.34/	5.0 m	27022	27036	27082	5127036
3 x 0.75 mm ²	10.0 m	27023	27037	27083	5127037
	15.0 m	27024	27038	27084	5127038
Accessories					Art.-No.
Blind plug for empty sockets		plastic			58627
Snap foot for DIN-rail		with fixing bolts			27905
Label plates		2 strips = 12 pieces, (Murrplastik ABB 17 x 9 type M)			996050
Coding elements for screw-plug terminals		for 6 codings			996054
Adapter	M12/M8	connection of M8 male 3-pol. to M12 sockets			7000-42201-0000000

Notes

Other versions on request.
Technical data in chapter 1.3.

Distribution box for sensors and actuators

Single components

- potential separation via pluggable jumpers

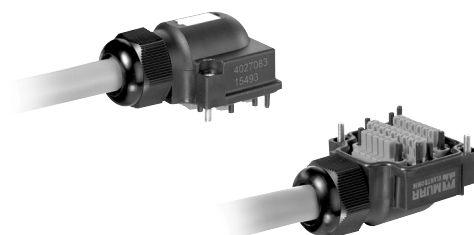
MVP12 basic housing

4-way, 6-way, 8-way
with potential separation



MVP12 connection cap

with and without pre-wired cable



Approvals: 

Contact layout

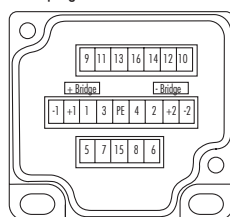
General:

Contact 1: (+)
Contact 2: (N/C)/(S2)
Contact 3: (–)
Contact 4: (N/O)/(S1)
Contact 5: (PE)

M12 female
5-pole



screw-plug terminals max. 1.5 mm²/AWG 16



LED-Indicator for 24 V DC

Ordering data		Art.-No.	Art.-No.	Art.-No.	Art.-No.	Art.-No.	Art.-No.
		4-way	6-way	8-way	4-way	6-way	8-way
Basic housing	for PNP-signals	27114	27115	27116			
Basic housing	for NPN-signals	276563		276565			
Basic housing	without LED	276576	276577	276596			
Connection cap without cable					Art.-No.	Art.-No.	Art.-No.
Connection cap with screw-plug terminals					4127775	4127775	4127775
Connection cap with cable		for 4-way distribution box, 5-pole			Art.-No.	Art.-No.	Art.-No.
PUR/PVC	3.0 m				4027025		
8 x 0.34/3 x 0.75 mm ²	5.0 m				4027026		
without potential separation	10.0 m				4027027		
	15.0 m				4027028		
PUR/PVC	3.0 m				4027071		
8 x 0.34/5 x 0.75 mm ²	5.0 m				4027072		
with potential separation	10.0 m				4027073		
	15.0 m				4027074		
Connection cap with cable		for 6-way distribution box, 5-pole			Art.-No.	Art.-No.	Art.-No.
PUR/PVC	3.0 m					4027031	
12 x 0.34/3 x 0.75 mm ²	5.0 m					4027032	
without potential separation	10.0 m					4027033	
	15.0 m					4027034	
PUR/PVC	3.0 m					4027075	
12 x 0.34/5 x 0.75 mm ²	5.0 m					4027076	
with potential separation	10.0 m					4027077	
	15.0 m					4027078	
Connection cap with cable		for 8-way distribution box, 5-pole			Art.-No.	Art.-No.	Art.-No.
PUR/PVC	3.0 m						4027035
16 x 0.34/3 x 0.75 mm ²	5.0 m						4027036
without potential separation	10.0 m						4027037
	15.0 m						4027038
PUR/PVC	3.0 m						4027081
16 x 0.34/5 x 0.75 mm ²	5.0 m						4027082
with potential separation	10.0 m						4027083
	15.0 m						4027084

Notes

Technical data in chapter 1.3.

Distribution box for sensors and actuators

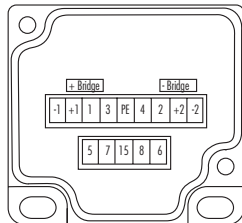
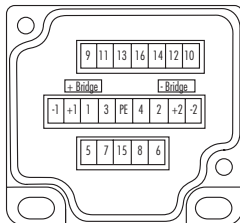
- with screw-plug terminals for field wiring
- potential separation via pluggable jumpers

MVP12

4-way, 6-way, 8-way
with pluggable connection cap
with potential separation



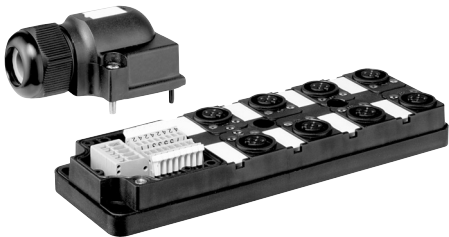
Approvals: 

Contact layout			
General:		M12 female 4-pole	M12 female 5-pole
Contact 1: (+)			
Contact 2: (N/C)/(S2)			
Contact 3: (–)			
Contact 4: (N/O)/(S1)			
Contact 5: (PE)			
with LED for PNP-signals 24 V DC			
Ordering data		Art.-No.	Art.-No.
Distribution box 4-way		27776	27773
Distribution box 6-way		27777	27774
Distribution box 8-way		27778	27775
Accessories		Art.-No.	
Blind plug for empty sockets		plastic	58627
Snap foot for DIN-rail		with fixing bolts	27905
Label plates		2 strips = 12 pieces, (Murrplastik ABB 17 x 9 type M)	996050
Coding elements for screw-plug terminals		for 6 codings	996054
Adapter M12/M8		connection of M8 male 3-pol. to M12 sockets	7000-42201-000000
Notes		Technical data in chapter 1.3.	

Distribution box
for sensors and actuators

- with spring clamp terminals
for field wiring

MVP12 FK
4-way, 6-way, 8-way
with connection cap



Approvals:

Contact layout

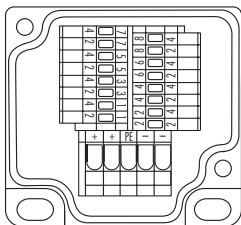
General:

- Contact 1: (+)
- Contact 2: (N/C)/(S2)
- Contact 3: (–)
- Contact 4: (N/O)/(S1)
- Contact 5: (PE)

M12 female
5-pole



spring clamp terminals max. 0.5/1.5 mm² (AWG 20/AWG 16)



with LED for PNP-signals 24 V DC

Ordering data				Art.-No.
Distribution box 4-way				27797
Distribution box 6-way				27798
Distribution box 8-way				27799
Accessories				Art.-No.
Blind plug for empty sockets		plastic		58627
Snap foot for DIN-rail		with fixing bolts		27905
Label plates		2 strips = 12 pieces, (Murrplastik ABB 17 x 9 type M)		996050
Cable 50 m ring	application 4-pole	4-way	4 x 0.34/3 x 0.75mm²	90700
		6-way	6 x 0.34/3 x 0.75mm²	90701
		8-way	8 x 0.34/3 x 0.75mm²	90702
Cable 50 m ring	application 5-pole	4-way	8 x 0.34/3 x 0.75mm²	90703
		6-way	12 x 0.34/3 x 0.75mm²	90704
		8-way	16 x 0.34/3 x 0.75mm²	90705

Notes

Technical data in chapter 1.3.

Distribution box for sensors and actuators

- with back plate connection (field-wireable or single wires)
- potential separation via pluggable jumpers
- flat gasket supplied

MVP12
8-way
for direct mounting on control panels



Contact layout

General:	M12 female 5-pole
Contact 1:	(+)
Contact 2:	(N/C)/(S2)
Contact 3:	(-)
Contact 4:	(N/O)/(S1)
Contact 5:	(PE)



with LED for PNP-signals 24 V DC

Distribution box 8-way		Art.-No.	with potential separation	Art.-No.
Single wires	length			
PUR	1.0 m	27146		27151
16 x 0.34/	3.0 m	27148		27153
3 x or 5 x 0.75 mm ²	5.0 m	27149		
Field-wireable max. 1.5 mm ² /AWG 16				27158

Accessories		Art.-No.
Blind plug for empty sockets	plastic	58627
Label plates	2 strips = 12 pieces, (Murrplastik ABB 17 x 9 type M)	996050
Coding elements for screw-plug terminals	for 6 codings	996054
Adapter	M12/M8 connection of M8 male 3-pole to M12 sockets	7000-42201-0000000

Notes

Technical data in chapter 1.3.

Distribution box for sensors and actuators

- with 12- or 19-pole
plug connector M23

MVP12

4-way, 6-way, 8-way
with plug connector M23



MVP12

4-way, 6-way, 8-way
with front faced plug connector M23



Approvals:

Contact layout

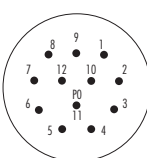
General:

- Contact 1: (+)
Contact 2: (N/C)/(S2)
Contact 3: (–)
Contact 4: (N/O)/(S1)
Contact 5: (PE)

M12 female
4-pole



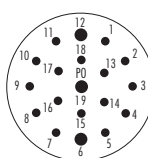
M23 male
12-pole



M12 female
5-pole



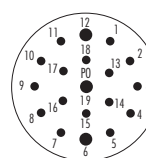
M23 male
19-pole



M12 female
5-pole



M23 male
19-pole



with LED for PNP-signals 24 V DC

Ordering data		Art.-No.	Art.-No.	Art.-No.
Distribution box 4-way		27763	27782	27787
Distribution box 6-way		27764	27783	27786
Distribution box 8-way		27765	27784	27785
Accessories		Art.-No.		
Blind plug for empty sockets		plastic		58627
Snap foot for DIN-rail		with fixing bolts		27905
Label plates		2 strips = 12 pieces, (Murrplastik ABB 17 x 9 type M)		996050
Adapter	M12/M8	connection of M8 male 3-pol. to M12 sockets		7000-42201-0000000
Female connector M23	12-/19-pole	in chapter 1.6.		

Notes

Technical data in chapter 1.3.

Distribution box for universal applications

- with screw-plug terminals for field wiring
- separation contact 5 via pluggable jumpers

MVP12 UNIVERSAL

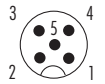
4-way
with pluggable connection cap
with contacts individual carried on terminals



Contact layout

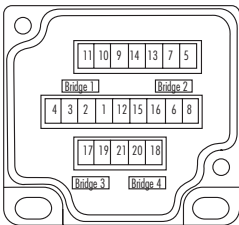
General:
Contacts 1:1 carried on terminals

M12 female
5-pole



free arrangeable

screw-plug terminals max. 1.5 mm²/AWG 16



without LED, nominal voltage max. 24 V AC/DC

Ordering data

Distribution box 4-way

Art.-No.

276625

Accessories

Blind plug for empty sockets

plastic

Art.-No.

58627

Snap foot for DIN-rail

with fixing bolts

27905

Label plates

2 strips = 12 piece, (Murrplastik ABB 17 x 9 type M)

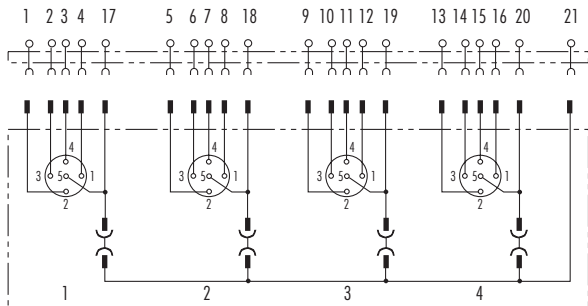
996050

Coding elements for screw-plug terminals

for 6 codings

996054

Circuit diagram



Notes

Technical data in chapter 1.3.
Other versions on request.

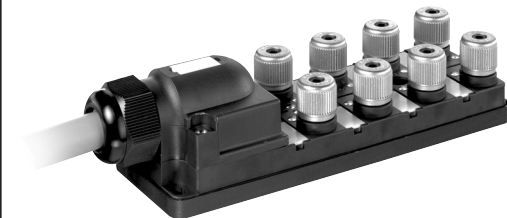
Distribution box for sensors and actuators

Quick connection technology

- includes quick connection units
- with pluggable connection cable or with screw-plug terminals for field-wiring
- potential separation via pluggable jumpers

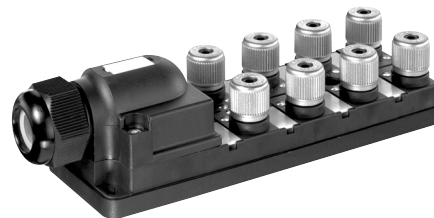
MVP12

4-way, 6-way, 8-way
with pluggable connection cable



MVP12

4-way, 6-way, 8-way
with pluggable connection cap
screw-plug terminals max. 1.5 mm²



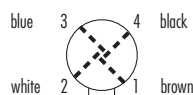
Contact layout

General:

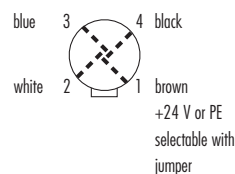
Contact 1: (+)
Contact 2: (S2)/(N/C)
Contact 3: (–)
Contact 4: (S1)/(N/O)

with LED for PNP-signals 24 V DC

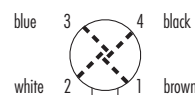
4-pole (2 signals)



4-pole (2 signals)



4-pole (2 signals)



Distribution box 4-way

Art.-No.

Connection cable	cable length
PUR/PVC	3.0 m
8 x 0.34/5 x 0.75 mm ²	5.0 m
	10.0 m
	15.0 m

4927072

4927073

4927074

Distribution box 6-way

Art.-No.

Connection cable	cable length
PUR/PVC	3.0 m
12 x 0.34/5 x 0.75 mm ²	5.0 m
	10.0 m
	15.0 m

4927076

4927077

4927078

Distribution box 8-way

Art.-No.

Connection cable	cable length
PUR/PVC	3.0 m
16 x 0.34/5 x 0.75 mm ²	5.0 m
	10.0 m
	15.0 m

4927082

4927083

4927084

Ordering data

	Art.-No.	Art.-No.
Distribution box 4-way	4927060	4927776
Distribution box 6-way		4927777
Distribution box 8-way	4927061	4927778

Accessories

Art.-No.



Quick connection units (3 parts)	included in the part numbers listed above (see drawing)	4927640
Blind plug for empty sockets	2 pieces included in the part numbers listed above	58468
Tool for coupling nut		58469
Snap foot for DIN-rail	with fixing bolts	27905
Coding elements for screw-plug terminals	for 6 codings	996054

Notes

Other versions on request.