



M12 DISTRIBUTION SYSTEMS METAL

- Rugged
- Resistant to media
- Sealed

POTTED FORMS FOR HARSH ENVIRONMENTS

- Metal housing withstands mechanical and thermal stress, with molded cable or maintenance-friendly M23 plug connection
- High quality PUR cable: suitable for C-tracks, halogen-free, wider wire cross sections for higher current capacity
- Shielded models for sensitive digital or analog signals for an EMC compatible installation
- Universal configuration - contacts designed 1:1
- Fully potted

With molded homerun cable or M23 plug connection



MVP12 Metal

- 4-, 8-way
- With LED for PNP or NPN signals
- Without LED for analog signals and voltages up to 125 VAC/DC
- With PUR homerun cable or M23 connection

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MVP12 metal universal

- 4-way
- M12 Pin 1, 2, 3, and 4 freely configurable

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M12 DISTRIBUTION SYSTEMS (METAL)

For sensors and actuators

– with molded homerun cable

– unshielded



MVP12 Metal

4-way
for PNP signals 24 V DC



MVP12 Metal

8-way
for PNP signals 24 V DC



1 Form	54510	58510
Type	PNP, 5-pole	PNP, 5-pole
Contact layout	<p>for 2 signals per port</p>	
2 Cable Type	Jacket Color – No./diameter of wires	
	gray	gray
PUR (UL/CSA)	448 – 8 × 0.5 + 3 × 1.0 mm ²	452 – 16 × 0.5 + 3 × 1.0 mm ²
3 Cable Length		
3.0 m	0300	
5.0 m	0500	
10.0 m	1000	
15.0 m	1500	
Technical Data		
Operating voltage	24 V DC	
Total current	max. 12 A	
Protection	IP65, IP67, IP68	
Temperature range	-20...+90 °C, depending on cable quality	
Contact Layout		
Contact 1	(+) / LED (green): power / LED (yellow): (S1/S2)	
Contact 2	(NC)/(S2)	
Contact 3	(-)	
Contact 4	(NO)/(S1)	
Contact 5	(Earth)	
LED display	LED (green): power / LED (yellow): (S1/S2)	
Article No.		
The composition of your article number is explained on page 3.1.i	<div style="display: flex; justify-content: space-around; align-items: center;"> 8 0 0 0 - - - - </div>	
	1 Form	2 Cable Type
		3 Cable Length
Notes		

M12 DISTRIBUTION SYSTEMS (METAL)

For sensors and actuators

- with molded homerun cable
- unshielded



MVP12 Metal

8-way
with potential separation



MVP12 Metal

4-way
without LED



1 Form	58610	54512
Type	PNP, 5-pole	without LED, 5-pole (for analog signals)
Contact layout	<p>for 2 signals per port</p>	<p>for 2 signals per port</p>
2 Cable Type	Jacket Color – No./diameter of wires	
	gray	gray
PUR (UL/CSA)	403 – 16 × 0.34 + 5 × 0.75 mm ²	448 – 8 × 0.5 + 3 × 1.0 mm ²
3 Cable Length		
3.0 m	0300	
5.0 m	0500	
10.0 m	1000	
15.0 m	1500	
Technical Data		
Operating voltage	24 V DC	max. 125 V AC/DC
Total current	max. 10 A	max. 12 A
Protection	IP65, IP67, IP68	
Temperature range	-20...+90 °C, depending on cable quality	
Contact Layout		
Contact 1	(+)	
Contact 2	(NC)/(S2)	
Contact 3	(-)	
Contact 4	(NO)/(S1)	
Contact 5	(Earth)	
LED display	LED (green): power / LED (yellow): (S1/S2)	-
Article No.		
The composition of your article number is explained on page 3.1.i	8 0 0 0 - - - - -	- - - - -
	1 Form	2 Cable Type
		3 Cable Length
Notes		

M12 Distribution Systems (Metal)

M12 DISTRIBUTION SYSTEMS (METAL)

For sensors and actuators

– with molded homerun cable

– unshielded



MVP12 Metal

8-way
without LED



MVP12 Metal

8-way
for NPN signals 24 V DC



1 Form		58512	58511
Type		without LED, 5-pole (for analog signals)	NPN, 5-pole
Contact layout		<p>for 2 signals per port</p>	<p>for 2 signals per port</p>
2 Cable Type	Jacket Color – No./diameter of wires	gray	gray
		PUR (UL/CSA) 452 – 16 × 0.5 + 3 × 1.0 mm ²	452 – 16 × 0.5 + 3 × 1.0 mm ²
3 Cable Length			
		3.0 m	0300
		5.0 m	0500
		10.0 m	1000
		15.0 m	1500
Technical Data			
Operating voltage		max. 125 V AC/DC	24 V DC
Total current		max. 12 A	
Protection		IP65, IP67, IP68	
Temperature range		-20...+90 °C, depending on cable quality	
Contact Layout			
Contact 1		(+)	
Contact 2		(NC)/(S2)	
Contact 3		(-)	
Contact 4		(NO)/(S1)	
Contact 5		(Earth)	
LED display		-	LED (green): power / LED (yellow): (S1/S2)
Article No.			
The composition of your article number is explained on page 3.1.i		8 0 0 0 - - - - -	- - - - -
		1 Form	2 Cable Type
			3 Cable Length
Notes			

M12 DISTRIBUTION SYSTEMS (METAL)

For sensors and actuators

- with molded homerun cable
- shielded



MVP12 Metal

4-way



MVP12 Metal

8-way



1 Form

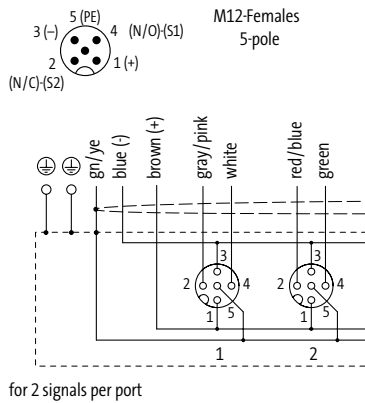
54515

58515

Type without LED, 5-pole (for analog signals)

Type without LED, 5-pole (for analog signals)

Contact layout



2 Cable Type

Jacket Color – No./diameter of wires

PUR (UL/CSA)

gray

gray

373 – 8 × 0.34 + 3 × 0.75 mm²

401 – 16 × 0.34 + 3 × 0.75 mm²

3 Cable Length

3.0 m	0300
5.0 m	0500
10.0 m	1000
15.0 m	1500

Technical Data

Operating voltage	max. 125 V AC/DC
Total current	max. 10 A
Protection	IP65, IP67, IP68
Temperature range	-20...+90 °C, depending on cable quality

Contact Layout

Contact 1	(+)
Contact 2	(NC)/(S2)
Contact 3	(-)
Contact 4	(NO)/(S1)
Contact 5	(Earth)
Shield	via M12 thread

Article No.

The composition of your article number is explained on page 3.1.i

8 0 0 0 - - - - -

1 Form

2 Cable Type

3 Cable Length

Notes

M12 DISTRIBUTION SYSTEMS (METAL)

For sensors and actuators

– with molded homerun cable

– shielded



MVP12 Metal

4-way
for PNP signals 24 V DC



MVP12 Metal

8-way
for PNP signals 24 V DC



1 Form		54513	58513
Type	PNP, 5-pole		PNP, 5-pole
Contact layout			
2 Cable Type		Jacket Color – No./diameter of wires	
		gray	gray
PUR (UL/CSA)		373 – 8 × 0.34 + 3 × 0.75 mm ²	401 – 16 × 0.34 + 3 × 0.75 mm ²
3 Cable Length			
3.0 m		0300	
5.0 m		0500	
10.0 m		1000	
15.0 m		1500	
Technical Data			
Operating voltage		24 V DC	
Total current		max. 10 A	
Protection		IP65, IP67, IP68	
Temperature range		-20...+90 °C, depending on cable quality	
Contact Layout			
Contact 1		(+)	
Contact 2		(NC)/(S2)	
Contact 3		(-)	
Contact 4		(NO)/(S1)	
Contact 5		(Earth)	
LED display		LED (green): power / LED (yellow): (S1/S2)	
Shield		via M12 thread	
Article No.			
The composition of your article number is explained on page 3.1.i		<div style="display: flex; justify-content: space-around; align-items: center;"> 8 0 0 0 - - - - </div>	
		1 Form	2 Cable Type
		3 Cable Length	
Notes			

M12 DISTRIBUTION SYSTEMS (METAL)

For sensors and actuators

– M23 plug connection, 19-pole

– for unshielded or shielded use



MVP12 Metal

4-way



MVP12 Metal

8-way



1 Form	54522	58522	
Type	without LED, 5-pole (for analog signals)		
Contact layout	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>M12-Females 5-pole</p> </div> <div style="text-align: center;"> <p>M23-Plug 19-pole</p> </div> </div> <div style="text-align: center; margin-top: 10px;"> <p>M23-Plug 19-pole</p> <p>for 2 signals per port</p> </div>		
Technical Data			
Operating voltage	max. 125 V AC/DC		
Operating current per contact	max. 4 A		
Total current	max. 10 A		
Protection	IP65, IP67, IP68		
Housing	Zinc die casting, matte nickel plated		
Temperature range	-25...+80 °C		
Contact Layout			
Contact 1	(+)		
Contact 2	(NC)/(S2)		
Contact 3	(-)		
Contact 4	(NO)/(S1)		
Contact 5	(Earth)		
Shield	via M12 outer thread and M23 outer thread		
Article No.			
The composition of your article number is explained on page 3.1.i	8 0 0 0	- - 0 0 0	0 0 0 0
	1 Form		
Notes			

M12 DISTRIBUTION SYSTEMS (METAL)

For harsh environments

– for unshielded or shielded use

MVP12 Metal UNIVERSAL

with molded homerun cable
4-way



Approvals:

1 Form	54712	
Type	without LED, 5-pole (for analog signals)	
Contact layout	<p>M12-Females 5-pole</p> <p>for 4 signals per port free arrangeable, PE bridged</p>	
2 Cable Type	Jacket Color – No./diameter of wires	
	gray	
PUR (UL/CSA)	401 – 16 × 0.34 + 3 × 0.75 mm ²	
3 Cable Length		
3.0 m		0300
5.0 m		0500
10.0 m		1000
15.0 m		1500
Technical Data		
Operating voltage	max. 42 V AC/DC	
Total current	max. 10 A	
Protection	IP65, IP67, IP68	
Temperature range	-20...+90 °C, depending on cable quality	
Contact Layout		
Contact 1	(S1)	
Contact 2	(S2)	
Contact 3	(S3)	
Contact 4	(S4)	
Contact 5	(Earth)	
Shield	via M12 thread	
Article No.		
The composition of your article number is explained on page 3.1.i	<div style="display: flex; justify-content: space-around; align-items: center;"> 8 0 0 0 - 5 4 7 1 2 - </div>	
	1 Form	2 Cable Type
		3 Cable Length
Notes		

M12 Distribution Systems (Metal)

M12 DISTRIBUTION SYSTEMS (METAL)

For harsh environments

– for unshielded or shielded use

MVP12 Metal UNIVERSAL

M23 plug connection, 19-pole

4-way

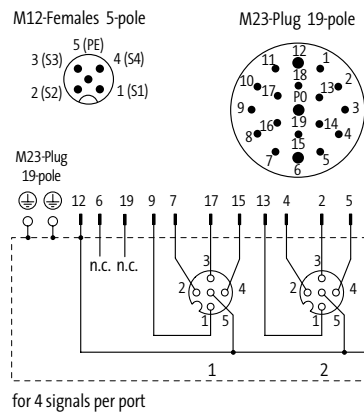


Approvals:  

1 Form 54722

Type without LED, 5-pole (for analog signals)

Contact layout



Technical Data

Operating voltage	max. 125 V AC/DC
Operating current per contact	max. 4 A
Total current	max. 10 A
Protection	IP65, IP67, IP68
Housing	Zinc die casting, matte nickel plated
Temperature range	-25...+90 °C

Contact Layout

Contact 1	(S1)
Contact 2	(S2)
Contact 3	(S3)
Contact 4	(S4)
Contact 5	(Earth)

Article No.












The composition of your article number is explained on page 3.1.i

8 0 0 0 - 5 4 7 2 2 - 0 0 0 | 0 0 0 0

1 Form

Notes

M12 DISTRIBUTION SYSTEMS (METAL)

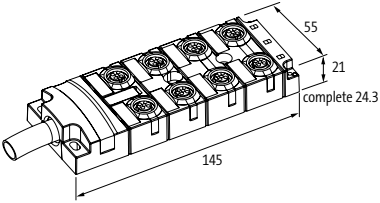
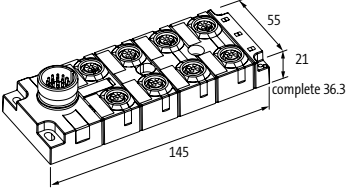
Mounting accessories			Art-No.
	Torque wrench set M12 (0.6 Nm, AF13)	M12 Round Plug Connectors	7000-99102-000000
	Torque wrench M12 (SW13)		7000-99109-000000
	Torque wrench M12 (SW14)		7000-99108-000000
	Torque wrench M12 (SW17)		7000-99094-000000
	Torque wrench M12 (SW18)		7000-99103-000000
	DIN-rail adapter with fixing screws, plastic		27905
	Earth connection set		996064
	V2A-base plate	MVP12 Metal, 4-way	996065
		MVP12 Metal, 8-way	996066
	Ground strap 4 mm² 100 mm for hole M3		4000-71001-041003
	End fitting set M3	Ground straps	4000-71003-0101403
Plug accessories			Art-No.
	Torque wrench set M12 (0.6 Nm, AF13)	M12 Round Plug Connectors	7000-99102-000000
	Screw plug M12 × 1 mm Metal, hex, 1 piece		996049

M12 DISTRIBUTION SYSTEMS (METAL)

Plug accessories			Art-No.
	Label plates KES 20 × 8 (white)	(10 pieces/2 plates)	996067
	Adapter M12/M8 3-pole 4-pole		7000-42201-000000 7000-42211-000000
Homerun cable accessories			Art-No.
	Screw plug M23 Metal		55352
	Cable rings (50 m), 5-pole, PUR (UL/CSA), halogen free 8×0.5 + 3×1.0 mm ² 16×0.5 + 3×1.0 mm ² 16×0.34 + 5×0.75 mm ²	4-way distribution boxes M12 8-way distribution boxes M12 8-way distribution boxes M12, potentially separated	8000-00000-4485000 8000-00000-4525000 8000-00000-4035000
	Cable rings (50 m), 5-pole, PUR (UL/CSA), halogen free 8×0.34 + 3×0.75 mm ² 16×0.34 + 3×0.75 mm ²	4-way distribution boxes M12, shielded 8-way distribution boxes M12, shielded	8000-00000-3735000 8000-00000-4015000

M12 DISTRIBUTION SYSTEMS (METAL)

M12 Distribution Systems Technical Data

	Description	4-way	8-way
	MVP Metal and MVP Metal UNIVERSAL Molded homerun cable	95 mm	145 mm
	Description	4-way	8-way
	MVP Metal and MVP Metal UNIVERSAL M23 plug connection	95 mm	145 mm