

## Valve plug connectors for self-assembly

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Product range overview

Function	Design	Type	Number of pins/wires	→ Page/ Internet
Plug connector	<b>Electrical connection 1, socket type A</b>			
	To EN 175301-803	MSSD-C	3-pin	4
		MSSD-N		
		MSSD-C	4-pin	6
	<b>Electrical connection 1, socket type B</b>			
	To EN 175301-803	MSSD-V	3-pin	8
	To industry standard, 11 mm	MSSD-F	3-pin	10
	<b>Electrical connection 1, socket type C</b>			
	To EN 175301-803	MSSD-EB	3-pin	12
			4-pin	14
	To industry standard, 9.4 mm	MSSD-E	3-pin	16
	<b>Electrical connection 1, socket plug pattern ZB/ZC</b>			
	–	MSSD-ZBZC	4-pin	18

## Type codes

<b>001</b>	Series	
<b>MSSD</b>	Plug socket	

<b>002</b>	Electrical connection 1, connection technology	
<b>C</b>	Type A to EN 175301-803	
<b>F</b>	Type B as per industry standard 11 mm	
<b>E</b>	Type C as per industry standard 9.4 mm	
<b>EB</b>	Type C to EN 175301-803	
<b>N</b>	Type A to EN 175301-803	
<b>V</b>	Type B to EN 175301-803	
<b>ZBZC</b>	Connection pattern ZB/ZC	

<b>003</b>	Electrical connection 1, number of pins/wires	
	Standard	
<b>4P</b>	4-pin	

<b>004</b>	Electrical connection 2, connection technology	
	Standard	
<b>S</b>	Insulation displacement connector	

<b>005</b>	Cable connector	
	Standard	
<b>M12</b>	M12	
<b>M14</b>	M14	
<b>M16</b>	M16	
<b>TY</b>	Pg11	

<b>006</b>	Operating voltage range	
	Standard	
<b>24DC</b>	0 ... 30 V DC, 0 ... 24 V AC	
<b>24VDC</b>	0 ... 30 V DC, 0 ... 24 V AC	

<b>007</b>	Version	
	Standard	
<b>SD</b>	Special design	

<b>008</b>	EU certification	
	None	
<b>EX2</b>	II 3GD	

## Datasheet

### Plug socket

#### MSSD-C

#### MSSD-N

- For valves with D solenoid coil
- For valves with N1 solenoid coil
- For valves with H solenoid coil
- For valve series VZWM-L
- Cable connection with screw terminal



General technical data				
Type	MSSD-C	MSSD-C-M16	MSSD-N	MSSD-C-TY-24DC
Based on norm	–	–	EN 175301-803	–
Electrical connection 1				
Connection type	Socket	Socket	Socket	–
Cable outlet	Angled	Angled	Angled	–
Note on cable outlet	Can be rotated 90°	–	–	–
Protective earth connection	Available	–	–	–
Design	Square	Square	Square	–
Connection technology	Plug pattern type A to DIN EN 175301-803	Plug pattern type A to DIN EN 175301-803	Plug pattern type A to EN 175301-803	–
Number of pins/wires	3	3	3	–
Type of mounting	On solenoid valve with M3 central screw	On solenoid valve with M3 central screw	On solenoid valve with M3 central screw	–
Mounting position	Any	–	Any	–
Contact durability	–	50	–	–
Electrical connection 2				
Connection technology	Screw terminal	–	Screw terminal	–
Cable connector	Pg9	M16	M20x1.5	–
Cable diameter [mm]	6 ... 8	6 ... 8	8 ... 10	–
Nominal conductor cross section [mm <sup>2</sup> ]	1.5	1.5	1.5	–
Technical data – Electrics				
Type	MSSD-C	MSSD-C-M16	MSSD-N	MSSD-C-TY-24DC
Operating voltage range	[V DC]	0 ... 300	–	0 ... 24
	[V AC]	0 ... 250	–	0 ... 250
Acceptable current load at 40°C	[A]	16	–	16
Materials				
Type	MSSD-C	MSSD-C-M16	MSSD-N	MSSD-C-TY-24DC
Housing	Polymer	Reinforced PA	Reinforced PA	–
Housing colour	Black	–	Black	–
Screws	–	–	Steel	–
Seals	NBR	HNBR	VMQ	–
Note on materials	RoHS-compliant	RoHS-compliant	RoHS-compliant	–
	–	–	Contains paint-wetting impairment substances	–
LABS (PWIS) conformity	VDMA24364-B2-L	–	–	–

## Datasheet

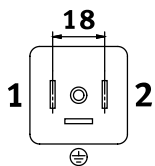
Operating and environmental conditions		MSSD-C	MSSD-C-M16	MSSD-N	MSSD-C-TY-24DC
Type					
Ambient temperature [°C]		-25 ... +90	-20 ... +115	-25 ... +80	-40 ... +90
Storage temperature [°C]		-40 ... +90	-	-	-
CE marking (see declaration of conformity)	To EU Low Voltage Directive <sup>1)</sup>	-	-	-	-
	To EU RoHS Directive <sup>1)</sup>	-	-	-	-
UKCA marking (see declaration of conformity)	To UK regulations for electrical equipment <sup>1)</sup>	-	-	-	-
	To UK RoHS regulations <sup>1)</sup>	-	-	-	-
Degree of protection	IP65	IP65	IP65	IP65	IP65
	-	To IEC 60529	-	-	To IEC 60529
Note on degree of protection	In mounted state	-	-	In mounted state	-
Certification	Germanischer Lloyd	-	-	-	-
Maritime classification <sup>2)</sup>	See certificate	-	-	-	-

- 1) For information about the area of use, see the EC declaration of conformity at: [www.festo.com/catalogue/...](http://www.festo.com/catalogue/...) → Support/Downloads.  
If the devices are subject to usage restrictions in residential, commercial or light-industrial environments, further measures for the reduction of the emitted interference may be necessary.
- 2) Additional information: [www.festo.com/catalogue/...](http://www.festo.com/catalogue/...) → Support/Downloads.

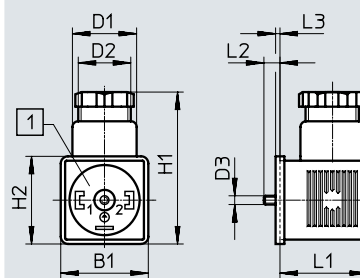
### Dimensions

Download CAD data → [www.festo.com](http://www.festo.com)

#### Pin allocation

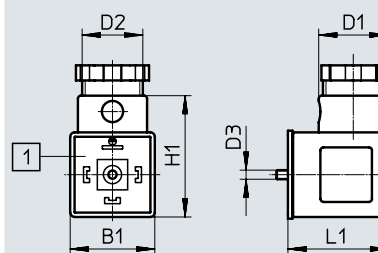


#### MSSD-C



[1] Insert can be rotated 90°

#### MSSD-N



[1] Plug pattern type A to EN 175301-803

Type	B1	D1 ∅	D2 ∅	D3 ∅	H1	H2	L1	L2	L3
MSSD-C	28	22	PG9	M3	52	28	26.5	5.5	1.5
MSSD-C-M16	27	22	M16x 1.5	M3	52	27	27	5.5	1.5
MSSD-C-TY-24DC	30	22	PG11	M3	52	30	30	5.5	1.5
MSSD-N	27.9	22.8	M20x1.5	M3	40	-	33.2	-	-

### Ordering data

Description	Signal status indication	Nominal conductor cross section [mm <sup>2</sup> ]	Weight [g]	Part no.	Type
Socket, plug pattern type A to EN 175301-803, 3-pin, angled	-	6 ... 8	22	<b>34583</b>	<b>MSSD-C</b>
			38	<b>539709</b>	<b>MSSD-C-M16</b>
		8 ... 10	30	<b>★ 550067</b>	<b>MSSD-N</b>
	LED	≤ 1.5	-	<b>177617</b>	<b>MSSD-C-TY-24DC</b>

## Datasheet

### Plug socket MSSD-C

- For valves with D and N1 solenoid coils
- Cable connection with screw terminal or insulation displacement technology



### Special features of insulation displacement technology (MSSD-C-S-M16)

With these plug sockets, the cable is no longer connected using individual clamping screws.

Instead, the flying leads are pressed into the patented insulation displacement contact when the screw is tightened.

- Strip the cable sheath
- Push it in
- Screw it in tightly
- And you're done!

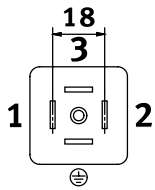
General technical data		MSSD-C-4P	MSSD-C-S-M16
Type		MSSD-C-4P	MSSD-C-S-M16
<b>Electrical connection 1</b>			
Connection type		Socket	Socket
Cable outlet		Angled	–
Design		Square	Square
Connection technology		Plug pattern type A to DIN EN 175301-803	Plug pattern type A to DIN EN 175301-803
Number of pins/wires		3	4
Type of mounting		On solenoid valve with M3 central screw	On solenoid valve with M3 central screw
Mounting position		Any	
Contact durability		–	10
<b>Electrical connection 2</b>			
Connection technology		Screw terminal	Insulation displacement connector
Cable connector		Pg9	–
Cable diameter	[mm]	6 ... 8	5.5 ... 8
Nominal conductor cross section	[mm <sup>2</sup> ]	≤ 1.5	0.5 ... 1
<b>Materials</b>			
Type		MSSD-C-4P	MSSD-C-S-M16
Housing		Polymer	PA
Housing colour		Black	Black
Note on materials		RoHS-compliant	RoHS-compliant
<b>Operating and environmental conditions</b>			
Type		MSSD-C-4P	MSSD-C-S-M16
Ambient temperature	[°C]	–25 ... +90	–20 ... +90
Degree of protection		IP65	IP67
		–	To IEC 60529

Datasheet

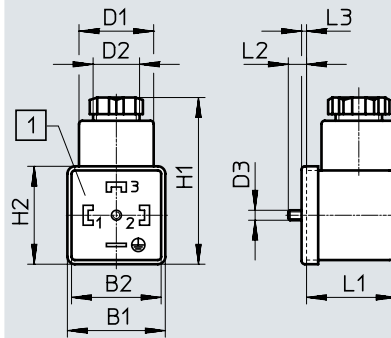
Dimensions

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Pin allocation

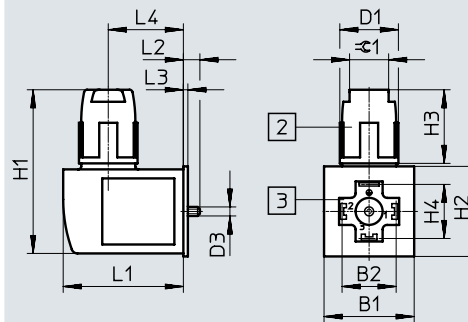


MSSD-C-4P



[1] Insert can be rotated 90°

MSSD-C-S-M16



[2] Union nut M16x1

[3] Connection side can be rotated 90°

Type	B1	B2	D1 ∅	D2 ∅	D3 ∅	H1	H2	H3	H4	L1	L2	L3	L4	∅1
MSSD-C-4P	29.5	27	23.8	Pg9	M3	49	29.5	42	–	27	5.5	1.5	–	–
MSSD-C-S-M16	30	18	19.5	–	M3	54.5	30	24.5	18	40	5.5	1.5	25	13

Ordering data

Description	Cable connection	Weight [g]	Part no.	Type
Socket, plug pattern type A to DIN EN 175301-803, 4-pin, angled	Screw terminal	22	<b>171157</b>	<b>MSSD-C-4P</b>
	Insulation displacement connector	38	<b>192748</b>	<b>MSSD-C-S-M16</b>

## Datasheet

### Plug socket MSSD-V

- For valves with V solenoid coil
- Cable connection with screw terminal



General technical data		
Type	MSSD-V-M16	MSSD-V
<b>Electrical connection 1</b>		
Connection type	Socket	Socket
Cable outlet	Angled	Angled
Note on cable outlet	–	Can be rotated 180°
Protective earth connection	–	Available
Design	Square	Square
Mounting position	Any	Any
Connection technology	Plug pattern type B to DIN EN 175301-803	Plug pattern type B to DIN EN 175301-803
Number of pins/wires	3	3
Type of mounting	On solenoid valve with M3 central screw	On solenoid valve with M3 central screw
Contact durability	50	–
<b>Electrical connection 2</b>		
Connection technology	Screw terminal	Screw terminal
Cable connector	M16	Pg9
Cable diameter [mm]	–	6 ... 8
Permissible cable diameter [mm]	6 ... 8	–
Nominal conductor cross section [mm <sup>2</sup> ]	–	Max. 1.5
Connection cross section [mm <sup>2</sup> ]	0.75	–
<b>Technical data – Electrics</b>		
Type	MSSD-V-M16	MSSD-V
Operating voltage range	[V DC]	–
	[V AC]	–
Acceptable current load at 40°C [A]	–	16
<b>Materials</b>		
Type	MSSD-V-M16	MSSD-V
Housing	Reinforced PA	Polymer
Housing colour	–	Black
Seals	HNBR	NBR
LABS (PWIS) conformity	–	VDMA24364-B2-L
<b>Operating and environmental conditions</b>		
Type	MSSD-V-M16	MSSD-V
Ambient temperature [°C]	–20 ... +115	–25 ... +90
CE marking (see declaration of conformity) <sup>1)</sup>	–	To EU Low Voltage Directive
	–	To EU RoHS Directive
UKCA marking (see declaration of conformity) <sup>1)</sup>	–	–
	–	–
Degree of protection	IP65	IP65
	To IEC 60529	–
Note on degree of protection	–	In mounted state

1) For information about the area of use, see the EC declaration of conformity at: [www.festo.com/catalogue/...](http://www.festo.com/catalogue/...) → Support/Downloads.

If the devices are subject to usage restrictions in residential, commercial or light-industrial environments, further measures for the reduction of the emitted interference may be necessary.

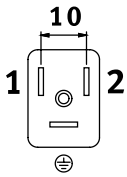


## Datasheet

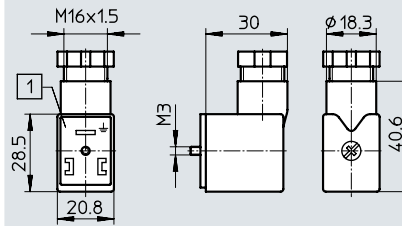
### Dimensions

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#### Pin allocation

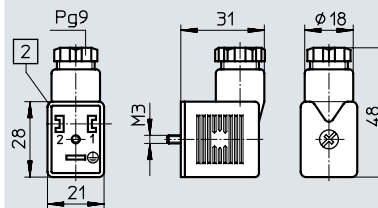


#### MSSD-V-M16



[1] Insert can be rotated 180°

#### MSSD-V



[2] Insert can be rotated 180°

### Ordering data

Description	Cable connection	Nominal conductor cross section [mm <sup>2</sup> ]	Weight [g]	Part no.	Type
Socket, plug pattern type B to DIN EN 175301-803, 3-pin, angled	Screw terminal	Max. 0.75	35 g	<b>539713</b>	<b>MSSD-V-M16</b>
		Max. 1.5	18 g	<b>33295</b>	<b>MSSD-V</b>

## Datasheet

### Plug socket MSSD-F

- For valves with F solenoid coils
- Cable connection with screw terminal or insulation displacement technology



General technical data				
Type	MSSD-F-M16	MSSD-F	MSSD-FS-M16	
<b>Electrical connection 1</b>				
Connection type	Socket	Socket	Socket	
Cable outlet	Angled	Angled	–	
Note on cable outlet	Can be rotated 180°	Can be rotated 180°	–	
Design	Square	Square	Square	
Mounting position	–	Any	Any	
Connection technology	Plug pattern type B to industry standard, 11 mm	Plug pattern type B to industry standard, 11 mm	Plug pattern type B to industry standard, 11 mm	
Number of pins/wires	3	3	3	
Type of mounting	On solenoid valve with M3 central screw	On solenoid valve with M3 central screw	On solenoid valve with M3 central screw	
Note on cable outlet	Can be rotated 180°	–	–	
Contact durability	50	–	10	
Protective earth connection	Available	Available	–	
<b>Electrical connection 2</b>				
Connection technology	Screw terminal	Screw terminal	Insulation displacement connector	
Cable connector	M16x1.5	Pg9	M16x1.5	
Cable diameter [mm]	6 ... 8	6 ... 8	5.5 ... 8	
Nominal conductor cross section [mm <sup>2</sup> ]	Max. 0.75	Max. 1.5	0.5 ... 1	
<b>Technical data – Electrics</b>				
Type	MSSD-F-M16	MSSD-F	MSSD-FS-M16	
Operating voltage range	[V DC]	0 ... 250	0 ... 250	
	[V AC]	0 ... 250	0 - 250 V	
Surge resistance [kV]	2	–	–	
Acceptable current load at 40°C [A]	6	16	–	
<b>Materials</b>				
Type	MSSD-F-M16	MSSD-F	MSSD-FS-M16	
Housing	Reinforced PA	Polymer	PA	
Housing colour	Black	Black	Black	
Seals	HNBR	NBR	–	
Note on materials	RoHS-compliant	–	–	
LABS (PWIS) conformity	–	VDMA24364-B2-L	–	

## Datasheet

Operating and environmental conditions			
Type	MSSD-F-M16	MSSD-F	MSSD-F-S-M16
Ambient temperature [°C]	-20 ... +115	-25 ... +90	-25 ... +90
Corrosion resistance class CRC <sup>1)</sup>	1	-	-
Pollution degree	3	-	-
CE marking (see declaration of conformity) <sup>2)</sup>	-	To EU Low Voltage Directive	-
	-	To EU RoHS Directive	-
UKCA marking (see declaration of conformity) <sup>2)</sup>	-	To UK regulations for electrical equipment	-
	-	To UK RoHS regulations	-
Degree of protection	IP65	IP65	IP67
	-	-	To IEC 60529
Note on degree of protection	In mounted state	In mounted state	In mounted state

1) Corrosion resistance class CRC 1 to Festo standard FN 940070

Low corrosion stress. Dry internal application or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, or parts that are covered in the application (e.g. drive trunnions).

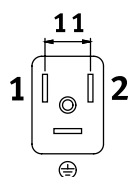
2) For information about the area of use, see the EC declaration of conformity at: [www.festo.com/catalogue/...](http://www.festo.com/catalogue/...) → Support/Downloads.

If the devices are subject to usage restrictions in residential, commercial or light-industrial environments, further measures for the reduction of the emitted interference may be necessary.

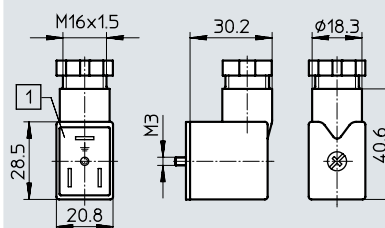
### Dimensions

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#### Pin allocation

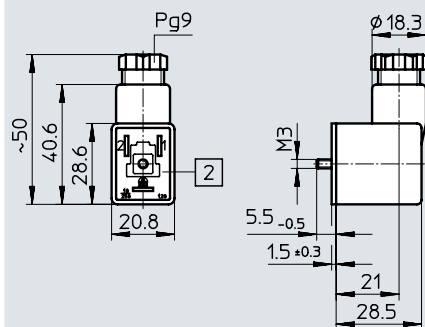


#### MSSD-F-M16



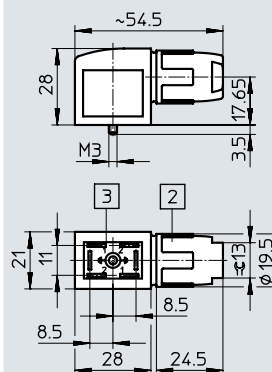
[1] Insert can be rotated 180°

#### MSSD-F



[2] Insert can be rotated 180°

#### MSSD-F-S-M16



[2] Union nut M16x1

[3] Connection side can be rotated 90°

With these plug sockets, instead of the cable being connected using individual clamping screws, the flying leads are pressed into the patented insulation displacement contact when the screw is tightened:

- Strip the cable sheath
- Push it in
- Screw it in tightly
- And you're done!

### Ordering data

Description	Cable connection	Nominal conductor cross section [mm <sup>2</sup> ]	Weight [g]	Part no.	Type
Socket, plug pattern type B, to industry standard, 11 mm, 3-pin, angled	Screw terminal	Max. 0.75	35	539710	MSSD-F-M16
		Max. 1.5	17	★ 34431	MSSD-F
	Insulation displacement connector	0.5 ... 1	35	192746	MSSD-F-S-M16

## Datasheet

### Plug socket MSSD-EB

- For valves with EB and N2 solenoid coils



General technical data		MSSD-EB-M12-24VDC-SD-EX	MSSD-EB	MSSD-EB-M12
Type				
<b>Electrical connection 1</b>				
Connection type		Socket	Socket	Socket
Cable outlet		Angled	Angled	Angled
Protective earth connection		–	Available	–
Switching position indication		–	–	–
Design		Square	Square	Square
Mounting position		–	Any	Any
Connection technology		Plug pattern type C to DIN EN 175301-803	Plug pattern type C to DIN EN 175301-803, to DIN EN 61984	Plug pattern type C to DIN EN 175301-803
Number of pins/wires		3	3	3
Type of mounting		On solenoid valve with M2.5 central screw	On solenoid valve with M2.5 central screw	On solenoid valve with M2.5 central screw
Note on cable outlet		Can be rotated 180°	Can be rotated 90°	–
Contact durability		–	–	50
<b>Electrical connection 2</b>				
Connection technology		Screw terminal	Screw terminal	Insulation displacement connector
Cable connector		M12	Pg7	M12
Cable diameter	[mm]	4 ... 6	6 ... 8	4 ... 6
Permissible cable diameter	[mm]	4 ... 6	7.5	4 ... 6
Nominal conductor cross section	[mm <sup>2</sup> ]	–	≤ 0.75	–
Connection cross section	[mm <sup>2</sup> ]	0.25 ... 0.5	0.75	1.5
<b>Technical data – Electrics</b>				
Type		MSSD-EB-M12-24VDC-SD-EX	MSSD-EB	MSSD-EB-M12
Nominal operating voltage	[V DC]	–	300	–
	[V AC]	–	250	–
Operating voltage range	[V DC]	0 ... 30	300	–
	[V AC]	0 ... 24	250	–
Surge resistance	[kV]	0.8	4	–
Current rating	[A]	–	6	–
Acceptable current load at 40°C	[A]	6	6	–
<b>Materials</b>				
Type		MSSD-EB-M12-24VDC-SD-EX	MSSD-EB	MSSD-EB-M12
Housing		Reinforced PA	Polymer	Reinforced PA
Housing colour		–	Black	–
Seals		HNBR	NBR	HNBR
Note on materials		RoHS-compliant	–	–
LABS (PWIS) conformity		–	VDMA24364-B2-L	–

# Datasheet

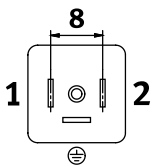
Operating and environmental conditions			
Type	MSSD-EB-M12-24VDC-SD-EX	MSSD-EB	MSSD-EB-M12
Ambient temperature [°C]	-25 ... +125	-45 ... +90	-40 ... +125
Pollution degree	3	3	-
CE marking (see declaration of conformity) <sup>1)</sup>	-	To EU Low Voltage Directive	-
	-	To EU RoHS Directive	-
	-	To UK regulations for electrical equipment	-
UKCA marking (see declaration of conformity) <sup>1)</sup>	-	To UK RoHS regulations	-
	-	To IEC 60529	-
	-	To IEC 60529	-
Degree of protection	IP65	IP65	IP65
Note on degree of protection	-	In mounted state	-

1) For information about the area of use, see the EC declaration of conformity at: [www.festo.com/catalogue/...](http://www.festo.com/catalogue/...) → Support/Downloads.  
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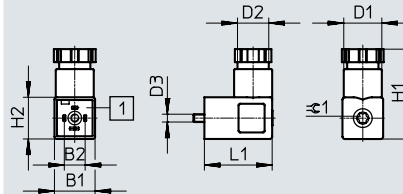
## Dimensions

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### Pin allocation

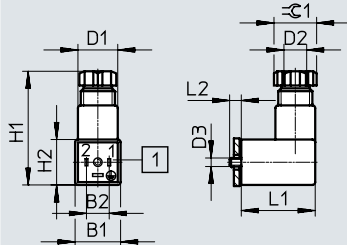


### MSSD-EB-M12-24VDC-SD-EX



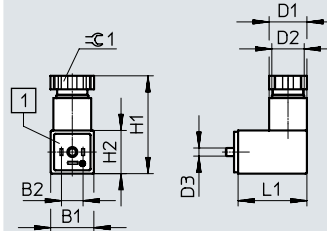
[1] Insert can be rotated 90°

### MSSD-EB



[1] Insert can be rotated 90°

### MSSD-EB-M12



[1] Insert can be rotated 90°

Type	B1	B2	D1 ∅	D2 ∅	D3 ∅	H1	H2	L1	L2	⊖ 1
MSSD-EB-M12-24VDC-SD-EX	15.6	8	14.6	M12x 1.5	2.5	34.5	16	26	-	T8
MSSD-EB	15.5	8	15	Pg7	2.5	40	15.5	26	4.1	13
MSSD-EB-M12	15.5	8	15	M12x 1.5	M2.5	33	15.5	25.5	-	13

## Ordering data

Description	Cable connection	Nominal conductor cross section [mm²]	Weight [g]	Part no.	Type
Socket, plug pattern type C to DIN EN 175301-803, 3-pin, angled	Screw terminal	0.25 ... 0.5	-	570367	MSSD-EB-M12-24VDC-SD-EX
		≤ 0.75	11 g	★ 151687	MSSD-EB
		1.5	11 g	539712	MSSD-EB-M12

## Datasheet

### Plug socket MSSD-EB

- For valves with EB and N2 solenoid coils



#### General technical data

##### Electrical connection 1

Connection type	Socket
Cable outlet	Angled
Mounting position	Any
Design	Square
Connection technology	Plug pattern type C
Number of pins/wires	4
Type of mounting	On solenoid valve with M2.5 central screw
Contact durability	10

##### Electrical connection 2

Connection technology	Insulation displacement connector
Cable diameter [mm]	4 ... 6
Nominal conductor cross section [mm <sup>2</sup> ]	0.25 ... 0.5

#### Materials

Housing	PA
Housing colour	Black

#### Operating and environmental conditions

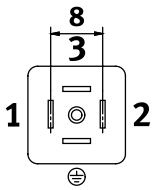
Ambient temperature [°C]	-25 ... +90
Degree of protection	IP67
	To IEC 60529

## Datasheet

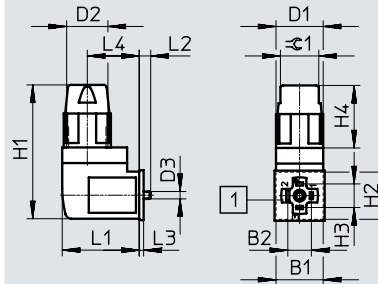
### Dimensions

Download CAD data → [www.festo.com](http://www.festo.com)

#### Pin allocation



#### MSSD-EB-S-M14



[1] Insert can be rotated 90°

With these plug sockets, instead of the cable being connected using individual clamping screws, the flying leads are pressed into the patented insulation displacement contact when the screw is tightened.

- Strip the cable sheath
- Push it in
- Screw it in tightly
- And you're done!

Type	B1	B2	D1 ∅	D2	D3 ∅	H1	H2	H3	H4	L1	L2	L3	L4	≈1
MSSD-EB-S-M14	16	8	16	M14x1	2.5	45	16	8	21.2	26	4	1.5	17.6	13

### Ordering data

Description	Cable connection	Nominal conductor cross section [mm <sup>2</sup> ]	Weight [g]	Part no.	Type
Socket, plug pattern type C to DIN EN 175301-803, 4-pin, angled	Insulation displacement connector	0.25 ... 0.5	17	<b>192745</b>	<b>MSSD-EB-S-M14</b>

## Datasheet

### Plug socket MSSD-E

- For valves with E solenoid coils



General technical data		
Type	MSSD-E	MSSD-E-M12
<b>Electrical connection 1</b>		
Connection type	Socket	Socket
Cable outlet	Angled	Angled
Design	Square	Square
Mounting position	–	Any
Connection technology	Plug pattern type C to industry standard, 9.4 mm	Plug pattern type C to industry standard, 9.4 mm
Number of pins/wires	3	3
Type of mounting	On solenoid valve with M3 central screw	On solenoid valve with M3 central screw
Mounting position	Any	–
Contact durability	–	50
<b>Electrical connection 2</b>		
Connection technology	Screw terminal	Screw terminal
Cable connector	Pg7	M12
Cable diameter [mm]	6 ... 8	–
Permissible cable diameter [mm]	–	4 ... 6
Nominal conductor cross section [mm <sup>2</sup> ]	0.75	0.75
Connection cross section [mm <sup>2</sup> ]	–	0.75
<b>Technical data – Electrics</b>		
Operating voltage range	[V DC]	0 ... 300
	[V AC]	0 ... 250
Acceptable current load at 40°C	[A]	6
<b>Materials</b>		
Type	MSSD-E	MSSD-E-M12
Housing	Reinforced PA	Reinforced PA
Housing colour	Black	Black
Seals	NBR	HNBR
Note on materials	–	RoHS-compliant
<b>Operating and environmental conditions</b>		
Type	MSSD-E	MSSD-E-M12
Ambient temperature [°C]	–25 ... +90	–20 ... +115
Corrosion resistance class CRC <sup>1)</sup>	–	1
Pollution degree	3	3
Degree of protection	IP65	IP65
	–	To IEC 60529
Note on degree of protection	In mounted state	In mounted state

1) Corrosion resistance class CRC 1 to Festo standard FN 940070

Low corrosion stress. Dry internal application or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, or parts that are covered in the application (e.g. drive trunnions).

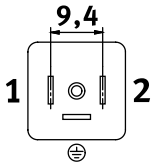


## Datasheet

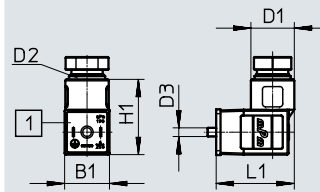
### Dimensions

Download CAD data → [www.festo.com](http://www.festo.com)

#### Pin allocation

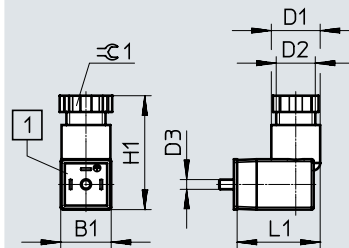


#### MSSD-E



[1] Insert can be rotated 90°

#### MSSD-E-M12



[1] Insert can be rotated 90°

Type	B1	D1 ∅	D2	D3	H1	L1	⌀ 1
MSSD-E	15.5	14	Pg7	M3	24.5	25	–
MSSD-E-M12	15.5	15	M12x 1.5	M3	33	25.5	13

### Ordering data

Description	Cable connection	Cable diameter [mm]	Weight [g]	Part no.	Type
Socket, plug pattern type C, to industry standard, 9.4 mm, 3-pin, angled	Screw terminal	6 ... 8	8	<b>14098</b>	<b>MSSD-E</b>
		4 ... 6	11	<b>539711</b>	<b>MSSD-E-M12</b>

## Datasheet

### Plug socket MSSD-ZBZC

- For valves with ZB and ZC solenoid coils



#### General technical data

##### Electrical connection 1

Connection type	Socket
Cable outlet	Angled
Mounting position	Any
Design	Square
Connection technology	Plug pattern ZB/ZC
Number of pins/wires	4
Type of mounting	On solenoid valve via self-tapping screw

##### Electrical connection 2

Connection technology	Insulation displacement connector
Nominal conductor cross section [mm <sup>2</sup> ]	0.22 ... 0.34

#### Technical data – Electrics

Nominal operating voltage [V DC]	24
Operating voltage range [V DC]	3 ... 36

#### Materials

Housing	PA
Note on materials	RoHS-compliant

#### Operating and environmental conditions

Ambient temperature [°C]	-10 ... +50
Corrosion resistance class CRC <sup>1)</sup>	1
Degree of protection	IP50
Note on degree of protection	In mounted state
Maritime classification <sup>2)</sup>	See certificate

1) Corrosion resistance class CRC 1 to Festo standard FN 940070

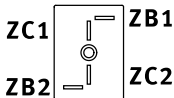
Low corrosion stress. Dry internal application or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, or parts that are covered in the application (e.g. drive trunnions).

2) Additional information: [www.festo.com/catalogue/...](http://www.festo.com/catalogue/...) → Support/Downloads.

Datasheet

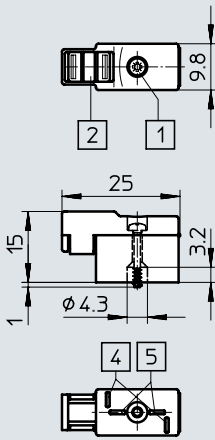
Dimensions

Pin allocation



Download CAD data → [www.festo.com](http://www.festo.com)

MSSD-ZBZC



- [1] Retaining screw
- [2] Inscription label IBS-6x10
- [4] Plug pattern for ZB solenoid coil
- [5] Plug pattern for ZC solenoid coil

Ordering data

Description	Cable connection	Nominal conductor cross section [mm <sup>2</sup> ]	Weight [g]	Part no.	Type
Socket, connection pattern ZB/ZC, 4-pin, angled	Insulation displacement connector	0.22 ... 0.34	11	<b>185521</b>	<b>MSSD-ZBZC</b>

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