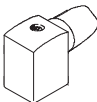

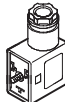

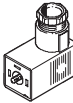






Plug sockets

Product range overview



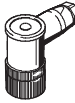
FESTO

Design	Type	For solenoid coil (valves with solenoid coil)												→ Page/Internet
		D	E	EB	F	N1	N2	V	Y	Z	ZB	ZC		
	MSSD-F MSSD-F-M16 MSSD-F-S-M16	-	-	-	■	-	-	-	-	-	-	-	2	
	MSSD-C MSSD-C-M16 MSSD-C-S-M16	■	-	-	-	■	-	-	-	-	-	-	3	
	MSSD-V MSSD-V-M16	-	-	-	-	-	-	■	-	-	-	-	5	
	MSSD-E MSSD-E-M12	-	■	-	-	-	-	-	-	-	-	-	6	
	MSSD-EB MSSD-EB-M12 MSSD-EB-S-M14	-	-	■	-	-	■	-	-	-	-	-	7	
	MSSD-MY 	-	-	-	-	-	-	-	■	■	-	-	8	
	MSSD-ZBZC	-	-	-	-	-	-	-	-	-	■	■	9	

 To be discontinued

 Note

Allocation of solenoid coils to valve types → www.festo.com

Design	Type	For miniature valves	For proportional valves	For valves with central plug		→ Page/Internet
		MHA1...-PI/ MHP1...-PI	MPPE/MPPES	ISO 15 407-1	ISO 5599-1	
	PCBC	■	-	-	-	10
	MPPE-3-B	-	■	-	-	11
	SEA-M12-4WD-PG7	-	-	■	■	14

Plug sockets MSSD-F

Technical data

FESTO

- Temperature range
-20 ... +115 °C
-25 ... +90 °C

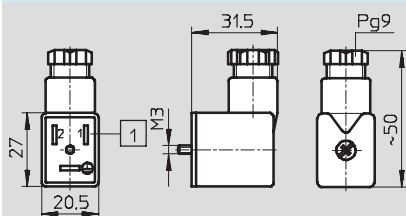
- For valves with F solenoid coils
- Cable connection using clamping screws or insulation displacement technology



General technical data			
Type	MSSD-F	MSSD-F-M16	MSSD-F-S-M16
Cable connection	Clamping screws	Clamping screws	Insulation displacement technology
Perm. cable diameter [mm]	6 ... 8	6 ... 8	5.5 ... 8
Wire cross section [mm ²]	Max. 1.5	0,75	0.5 ... 1
Number of pins	3	3	3
Cable conduit fitting	Pg9	M16	–
Type of mounting	M3 central screw	M3 central screw	M3 central screw
Connection frequency	–	50	10
Protection class to EN 60529	IP65 (assembled)	IP65 (assembled)	IP67 (assembled)
Mounting position	Any	Any	Any
Ambient temperature [°C]	-25 ... +90	-20 ... +115	-25 ... +90
Product weight [g]	17	35	35
Materials	Polymer	Polyamide	Polyamide

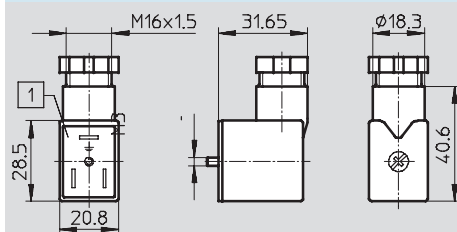
Dimensions

MSSD-F



1 Insert can be repositioned by 180°

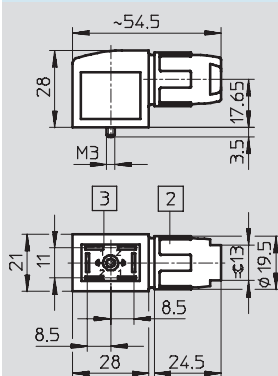
MSSD-F-M16



1 Insert can be repositioned by 180°

Download CAD data → www.festo.com

MSSD-F-S-M16



- 2 Locknut M16x1
- 3 Connection side can be repositioned by 90°

With these plug sockets, instead of the cable being connected using individual clamping screws, the stranded wires 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

Part No.	Type	Cable connection	Part No.	Type	Cable connection
34431	MSSD-F	Clamping screws	192746	MSSD-F-S-M16	Insulation displacement technology
539710	MSSD-F-M16				

Plug sockets MSSD-C

Technical data

FESTO

- Temperature range
–25 ... +90 °C
–20 ... +115 °C

- For valves with D and N1 solenoid coils
- Cable connection using clamping screws or insulation displacement technology



General technical data			
Type	MSSD-C	MSSD-C-M16	MSSD-C-S-M16
Cable connection	Clamping screws	Clamping screws	Insulation displacement technology
Perm. cable diameter [mm]	6 ... 8	6 ... 8	5.5 ... 8
Wire cross section [mm ²]	Max. 1.5	Max. 1.5	0.5 ... 1
Number of pins	3	3	3
Cable conduit fitting	Pg9	M16	M16
Type of mounting	M3 central screw	M3 central screw	M3 central screw
Connection frequency	–	50	10
Protection class to EN 60 529	IP65 (assembled)	IP65 (assembled)	IP67 (assembled)
Mounting position	Any	Any	Any
Product weight [g]	22		38
Materials	Polymer	Polyamide, reinforced	Polyamide
Note on materials	RoHS-compliant	–	–

Operating and environmental conditions			
Type	MSSD-C	MSSD-C-M16	MSSD-C-S-M16
Ambient temperature [°C]	–25 ... +90	–20 ... +115	–25 ... +90
CE-marking (see declaration of conformity)	in accordance with EU low-voltage directive	–	–
Certification	Germanischer Lloyd	–	–

Plug sockets MSSD-C

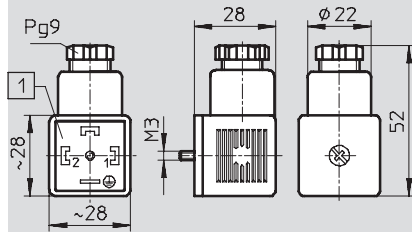
Technical data

FESTO

Dimensions

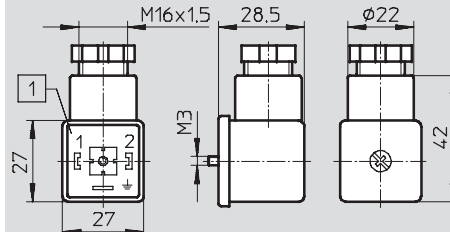
Download CAD data → www.festo.com

MSSD-C



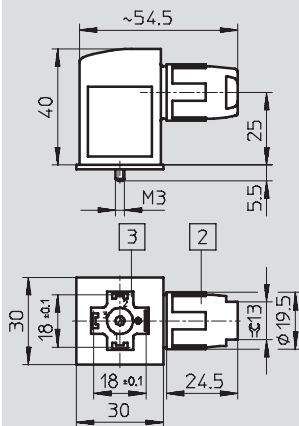
1 Insert can be repositioned by 90°

MSSD-C-M16



1 Insert can be repositioned by 90°

MSSD-C-S-M16



- 2 Locknut M16x1
- 3 Connection side can be repositioned by 90°

With these plug sockets, instead of the cable being connected using individual clamping screws, the stranded wires 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

Clamping screws

Part No. Type

34583 MSSD-C

539709 MSSD-C-M16

Insulation displacement technology

Part No. Type

192748 MSSD-C-S-M16

Plug sockets MSSD-V

Technical data

FESTO

- Temperature range
 - 25 ... +90 °C
 - 20 ... +115 °C

- For valves with V solenoid coils

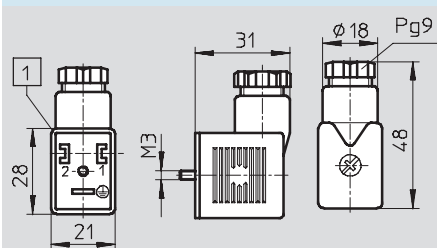


General technical data		
Type	MSSD-V	MSSD-V-M16
Perm. cable diameter [mm]	6 ... 8	6 ... 8
Wire cross section [mm ²]	Max. 1.5	Max. 1.5
Number of pins	3	3
Cable conduit fitting	Pg9	M16x1.5
Type of mounting	M3 central screw	M3 central screw
Protection class to EN 60529	IP65 (assembled)	IP65 (assembled)
Mounting position	Any	Any
Ambient temperature [°C]	-25 ... +90	-20 ... +115
Product weight [g]	18	35
Materials	Polymer	Polymer

Dimensions

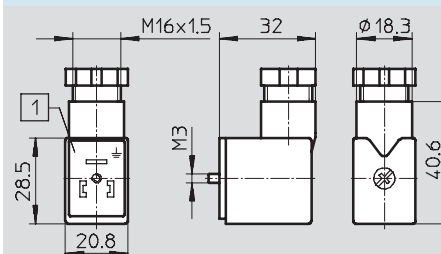
Download CAD data → www.festo.com

MSSD-V



- 1 Insert can be repositioned by 180°

MSSD-V-M16



- 1 Insert can be repositioned by 180°


Ordering data

	Description	Part No.	Type
	Plug socket for valves with V solenoid coils	33295	MSSD-V
		539713	MSSD-V-M16

Plug sockets MSSD-E

Technical data

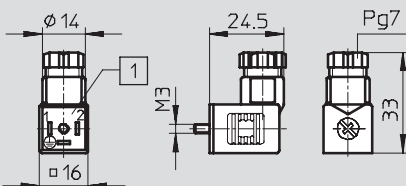
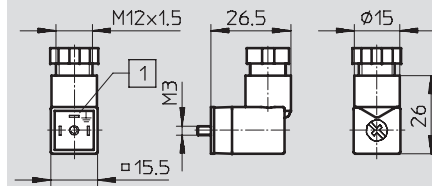
FESTO

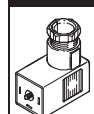
 Temperature range
 -25 ... +120°C

• For valves with E solenoid coils



General technical data			
Type		MSSD-E	MSSD-E-M12
Perm. cable diameter	[mm]	6 ... 8	4 ... 8
Wire cross section	[mm ²]	Max. 0.75	Max. 0.75
Number of pins		3	3
Cable conduit fitting		Pg7	M12
Type of mounting		M3 central screw	M3 central screw
Protection class to EN 60529		IP65 (assembled)	IP65 (assembled)
Mounting position		Any	Any
Ambient temperature	[°C]	-25 ... +120	-20 ... +115
Product weight	[g]	8	11
Materials		Polymer	Polymer

Dimensions		Download CAD data → www.festo.com
MSSD-E		MSSD-E-M12
 <p>1 Insert can be repositioned by 90°</p>	 <p>1 Insert can be repositioned by 90°</p>	

Ordering data			
	Description	Part No.	Type
	Plug socket for valves with E solenoid coils	14098	MSSD-E
		539711	MSSD-E-M12

Plug sockets MSSD-EB

Technical data

FESTO

- Temperature range
-45 ... +90°C
-40 ... +120°C

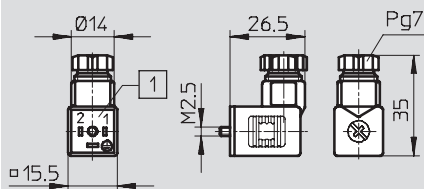
- For valves with EB and N2 solenoid coils



General technical data			
Type	MSSD-EB	MSSD-EB-M12	MSSD-EB-S-M14
Cable connection	Clamping screws	Clamping screws	Insulation displacement technology
Perm. cable diameter [mm]	6 ... 8	6 ... 8	4 ... 6
Wire cross section [mm²]	Max. 0.75	Max. 1,5	0.25 ... 0.5
Number of pins	3	3	3
Cable conduit fitting	Pg7	M12	–
Type of mounting	M2.5 central screw	M2.5 central screw	M2.5 central screw
Connection frequency	–	50	10
Protection class to EN 60529	IP65 (assembled)	IP65 (assembled)	IP67 (assembled)
Mounting position	Any	Any	Any
Ambient temperature [°C]	–45 ... +90	–40 ... +125	–25 ... +90
Product weight [g]	11	11	17
Materials	Polymer	Polyamide	Polyamide

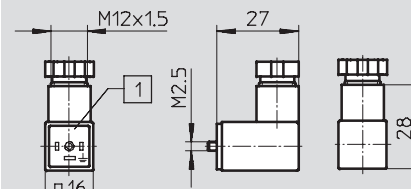
Dimensions

MSSD-EB



1 Insert can be repositioned by 90°

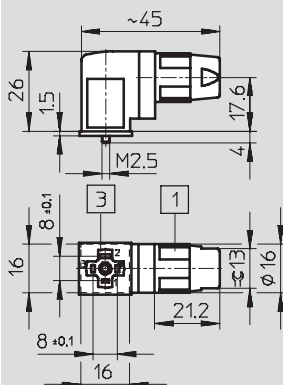
MSSD-EB-M12



1 Insert can be repositioned by 90°

Download CAD data → www.festo.com

MSSD-EB-S-M14



- 1 Locknut M14x1
- 3 Connection side can be repositioned by 90°

With these plug sockets, instead of the cable being connected using individual clamping screws, the stranded wires 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

Part No.	Type	Cable connection	Part No.	Type	Cable connection
151687	MSSD-EB	Clamping screws	192745	MSSD-EB-S-M14	Insulation displacement technology
539712	MSSD-EB-M12				

Do not use for new designs!
 - 1 - Type to be discontinued

Plug sockets MSSD-MY

Technical data

FESTO

•  Temperature range
 -25 ... +80°C

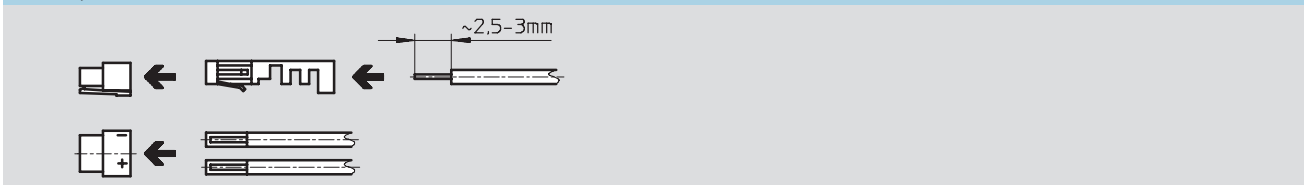
• For valves with Y and Z solenoid coils





General technical data		
Perm. cable diameter	[mm]	6 ... 8
Wire cross section	[mm ²]	Max. 0.3
Number of pins		2
Type of mounting		Clip
Protection class to EN 60 529		IP00
Mounting position		Any
Ambient temperature	[°C]	-25 ... +80
Product weight	[g]	2
Materials		Polymer

Assembly instructions for MSSD-MY and MSSD-MY-C

Download CAD data → www.festo.com




Ordering data			
	Description	Part No.	Type
	Plug socket for valves with Y and Z solenoid coils	34 345	MSSD-MY
	Crimp connectors for plug socket MSSD-MY	34 346	MSSD-MY-C

Plug sockets MSSD-ZBZC

Technical data

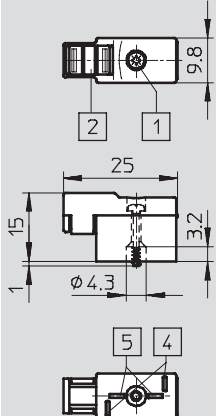
FESTO


•  Temperature range
-10 ... +50°C

• For valves with ZB and ZC solenoid coils



General technical data		
Wire cross section	[mm ²]	0.22 ... 0.34
Number of pins		2
Type of mounting		Self-tapping central screw
Protection class to EN 60 529		IP40 (assembled)
Mounting position		Any
Ambient temperature	[°C]	-10 ... +50
Product weight	[g]	11
Material		Polyamide


Dimensions		Download CAD data → www.festo.com
 <div style="margin-left: 20px;"> <p>1 Mounting screw</p> <p>2 Inscription label</p> <p>4 Connection pattern for ZB solenoid coil</p> <p>5 Connection pattern for ZC solenoid coil</p> </div>		

Ordering data			
	Description	Part No.	Type
	Plug socket for valves with ZB and ZC solenoid coils	185 521	MSSD-ZBZC

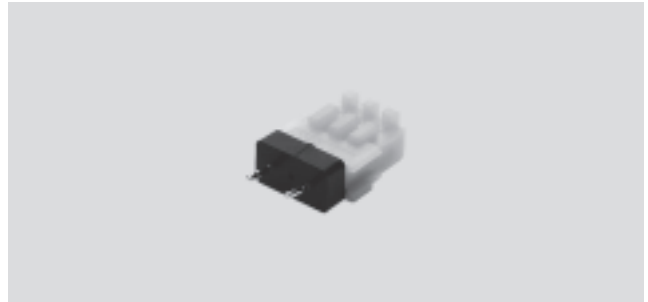
Soldering base PCBC

Technical data

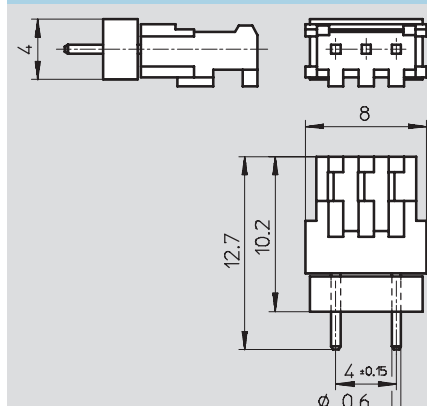
FESTO



 Temperature range
 -40 ... +115°C

- For mounting miniature valves
MHA1 and MHP1 on a PCB with
plug connection underneath (-PI)



General technical data		
Number of pins		2
Type of mounting		Soldering base
Protection class to EN 60 529		IP40 (assembled)
Mounting position		Any
Ambient temperature	[°C]	-40 ... +115
Product weight	[g]	5
Materials		Polyamide

Dimensions		Download CAD data → www.festo.com
		

Ordering data				
	Description	Part No.	Type	PU ¹⁾
	Soldering base	197 261	PCBC-A-10	10
		197 262	PCBC-A-100	100

1) Packaging unit quantity

Plug sockets MPPE-3-B

Technical data

FESTO

•  Temperature range
-40 ... +85°C

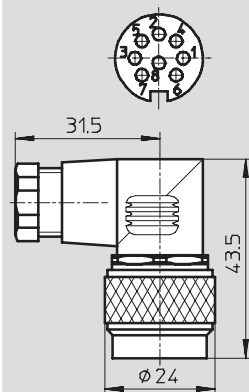
• For proportional pressure
regulators MPPE and MPPE-S



General technical data		
Wire cross section	[mm ²]	Max. 0.75
Number of pins		8
Type of mounting		Knurled locknut M16x0.75
Mounting position		Any
Ambient temperature	[°C]	-40 ... +85
Product weight	[g]	42

Dimensions

Download CAD data → www.festo.com



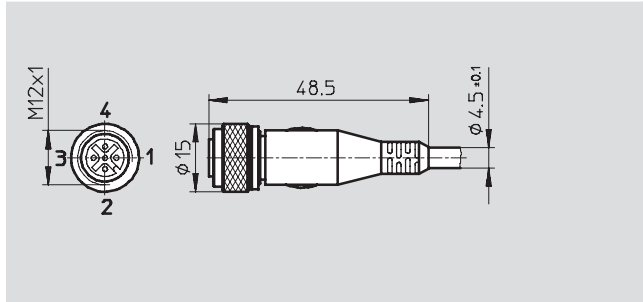
Ordering data		
	Description	Part No. Type
	Plug socket for proportional pressure regulators MPPE and MPPE-S	161 839 MPPE-3-B

Plug sockets with cable SIM

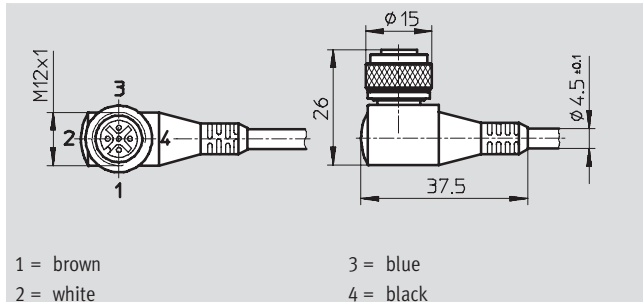
Technical data – M12x1, 4-pin

FESTO

SIM-M12-4GD-5-PU



SIM-M12-4WD-5-PU



General technical data			
		SIM-M12-4...-5-PU	
Electrical data			
Electrical connection		Straight or angled socket, M12x1, 4-pin	
Acceptable current load	[A]	2.8	
Operating voltage range	AC	[V]	≤45
	DC	[V]	≤70
Protection class to EN 60 529		IP65/IP67	
Design			
Cable length	[m]	5	
Cable composition	[mm ²]	4x 0.25	
Wire ends		Tin-plated	
Ambient temperature			
Fixed cable installation	[°C]	−40 ... +70	
Flexible cable installation	[°C]	−5 ... +70	
Materials			
Cable sheath		Polyurethane	

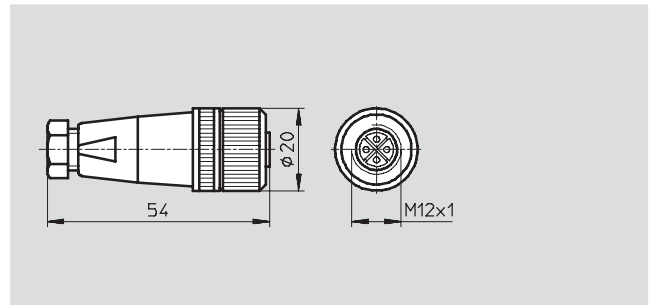
Ordering data				
	Part No.	Type	Part No.	Type
Connection direction	In-line		Lateral	
Cable length [m]	5	164 259 SIM-M12-4GD-5-PU	164 258	SIM-M12-4WD-5-PU

Plug sockets SIE

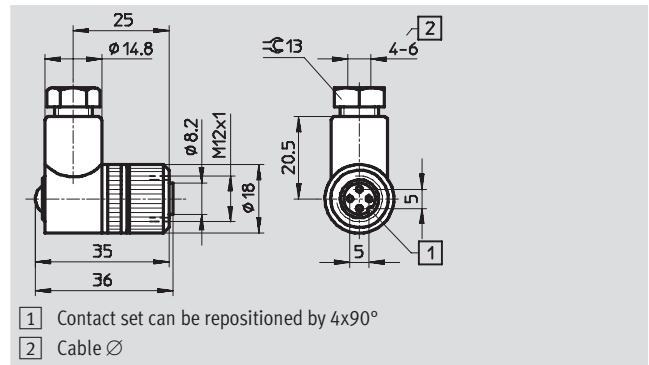
Technical data

FESTO

Straight connection socket



Angled connection socket



General technical data			
Connection direction		In-line	Lateral
Electrical connection		Straight socket, M12x1, 4-pin	Angled socket, M12x1, 4-pin
Operating voltage range	AC	[V]	0 ... 250
	DC	[V]	0 ... 250
Acceptable current load at 40 °C	[A]	4	
Surge capacity	[kV]	2.5	
Cable connection		Screw terminal	
Permissible cable diameter	[mm]	4 ... 6	
Connection cross section	[mm ²]	0.25 ... 0.75	
Max. tightening torque	[Nm]	0.5	
Protection class to EN 60529		IP67 (assembled)	
Conforms to		EN 61076-2-101, EN 61984	
Housing material		Polyamide	
Union nut material		Polyamide	
Note on materials		RoHS-compliant	

Operating and environmental conditions		
Ambient temperature	[°C]	-25 ... +85
CE mark (see declaration of conformity)		To EU Low Voltage Directive
Degree of contamination		3

Ordering data			
		Part No.	Type
Connection direction		In-line	Lateral
Plug socket		18 494	SIE-GD
		12 956	SIE-WD-TR

Plug sockets SEA-M12-WD

Technical data

FESTO

Temperature range
-40 ... +85°C

- For valves to ISO 15 407-1 (VDMA 24 563) and ISO 5599-1 with central plug M12x1



General technical data		
Perm. cable diameter	[mm]	4 ... 6
Wire cross section	[mm²]	Max. 0.75
Number of pins		4
Cable conduit fitting		Pg7
Type of mounting		Knurled locknut M12x1
Protection class to EN 60 529		IP67 (assembled)
Mounting position		Any
Ambient temperature	[°C]	-40 ... +85
Product weight	[g]	30
Material	Housing	Polybutylene terephthalate
	Contacts	Tin-coated bronze

Dimensions		Download CAD data → www.festo.com
<p>1 Contact set can be repositioned by 4x90°</p> <p>2 Perm. cable diameter</p>		

Ordering data			
	Description	Part No.	Type
	Plug socket for valves to ISO 15 407-1 (VDMA 24 563) and ISO 5599-1 with central plug M12x1	185 498	SEA-M12-4WD-PG7

Plug sockets KMYZ-4

Technical data

FESTO

- Temperature range
-10 ... +50 °C

- For use with intrinsically safe CPV valve terminals

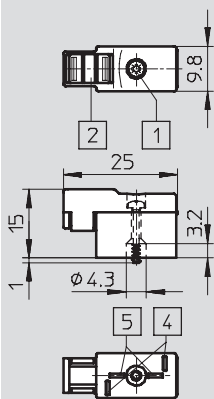


General technical data	
Electrical connection	Angled socket, square design MSZB
Wire cross section [mm ²]	0.22 ... 0.34
Number of pins	2
Type of mounting	Self-tapping central screw
Protection class to EN 60529	IP40 (assembled)
Operating voltage range [V DC]	3 ... 36
Nominal operating voltage [V DC]	24
Mounting position	Any
Ambient temperature [°C]	-10 ... +50
Product weight [g]	6.5
Housing material	Polyamide
Note on material	Conforms to RoHS
Corrosion resistance class CRC ¹⁾	1
Certification	Germanischer Lloyd

1) Corrosion resistance class 1 to Festo standard 940 070
Components requiring low corrosion resistance. Transport and storage protection. Parts that do not have primarily decorative surface requirements, e.g. in internal areas that are not visible or behind covers.

Dimensions

Download CAD data → www.festo.com



- 1 Mounting screw
- 2 Inscription label IBS-6x10
- 4 Pin allocations for ZB solenoid coil
- 5 Pin allocations for ZC solenoid coil

Ordering data		Part No.	Type
	Plug socket for use with intrinsically safe CPV valve terminals	550 806	KMYZ-4-0.0-B-EX

Product Range and Company Overview

A Complete Suite of Automation Services

Our experienced engineers provide complete support at every stage of your development process, including: conceptualization, analysis, engineering, design, assembly, documentation, validation, and production.



Custom Automation Components
Complete custom engineered solutions



Custom Control Cabinets
Comprehensive engineering support
and on-site services



Complete Systems
Shipment, stocking and storage services

The Broadest Range of Automation Components

With a comprehensive line of more than 30,000 automation components, Festo is capable of solving the most complex automation requirements.



Electromechanical
Electromechanical actuators, motors,
controllers & drives



Pneumatics
Pneumatic linear and rotary actuators,
valves, and air supply



PLCs and I/O Devices
PLC's, operator interfaces, sensors
and I/O devices

Supporting Advanced Automation... As No One Else Can!

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