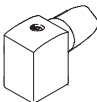
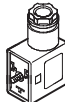
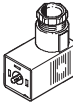


Plug sockets

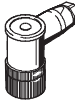
Product range overview

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 → 1

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

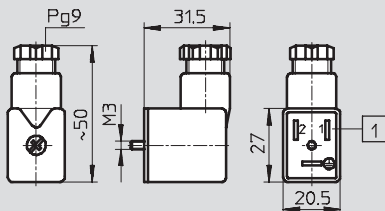
- For valves with F solenoid coils
- Cable connection using clamping screws or insulation displacement technology



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	Max. 1.5	0.5 ... 1
Number of pins	3	3	3
Cable conduit fitting	Pg9	M16x1.5	–
Type of mounting	M3 central screw	M3 central screw	M3 central screw
Connection frequency	–	–	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	17	35
Materials	Polymer	Polymer	Polymer

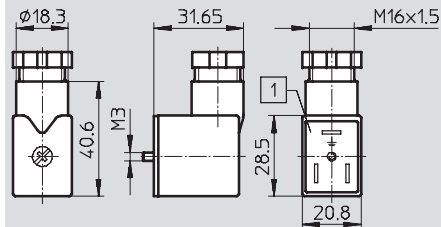
Dimensions

MSSD-F



1 Insert can be repositioned by 180°

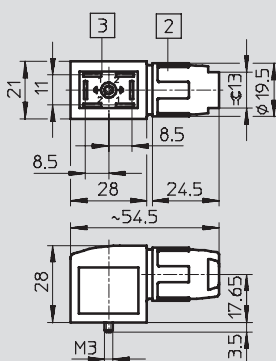
MSSD-F-M16



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
34 431	MSSD-F	Clamping screws	192 746	MSSD-F-S-M16	Insulation displacement technology
539 710	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

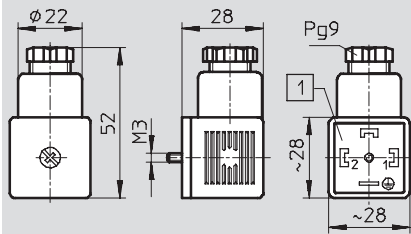
Technical data

FESTO

Dimensions

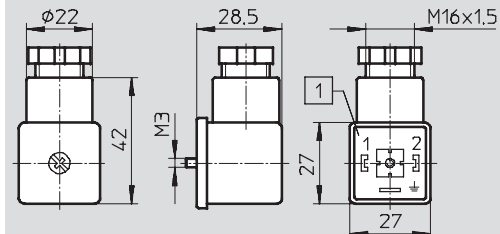
Download CAD data → www.festo.com

MSSD-C



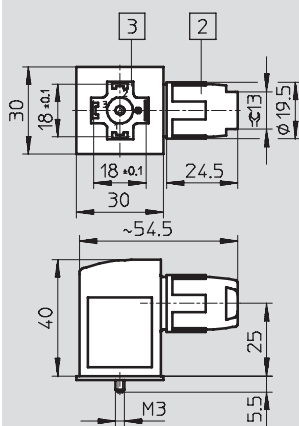
1 Insert can be repositioned by 90°

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

34 583 MSSD-C

539 709 MSSD-C-M16

Insulation displacement technology

Part No. Type

192 748 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

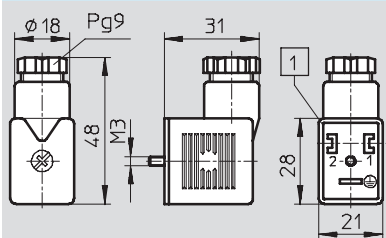


General technical data		
Type	MSSD-V	MSSD-V-M16
Perm. cable diameter [mm]	6 ... 8	6 ... 8
Wire cross section [mm ²]	Max. 1.5	Max. 1.5
Number of pins	3	3
Cable conduit fitting	Pg9	M16x1.5
Type of mounting	M3 central screw	M3 central screw
Protection class to EN 60529	IP65 (assembled)	IP65 (assembled)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

Dimensions

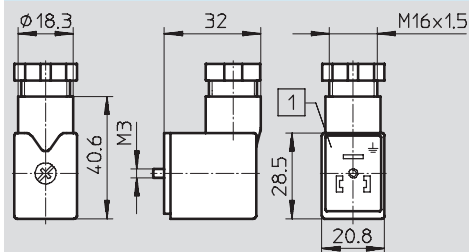
Download CAD data → www.festo.com

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	33 295	MSSD-V
		539 713	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	M12x1.5
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 ... +120	–20 ... +115
Product weight	[g]	8	11
Materials		Polymer	Polymer

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

Ordering data			
	Description	Part No.	Type
	Plug socket for valves with E solenoid coils	14 098	MSSD-E
		539 711	MSSD-E-M12

Plug sockets MSSD-EB

Technical data

FESTO

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

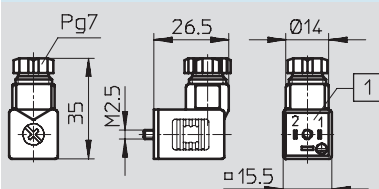
- For valves with EB and N2 solenoid coils



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 [mm ²]	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	Polyamid	Polyamid

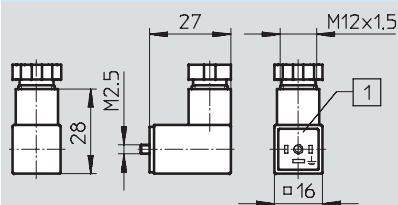
Dimensions

MSSD-EB



- 1 Insert can be repositioned by 90°

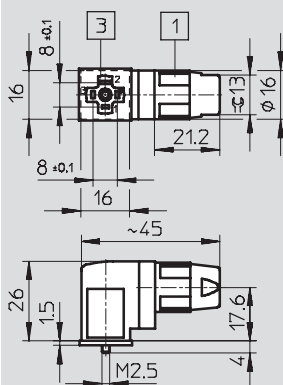
MSSD-EB-M12



- 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
151 687	MSSD-EB	Clamping screws	192 745	MSSD-EB-S-M14	Insulation displacement technology
539 712	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

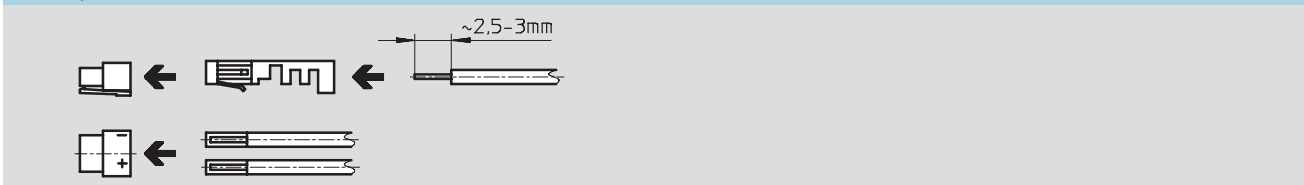
• For valves with Y and Z solenoid coils



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

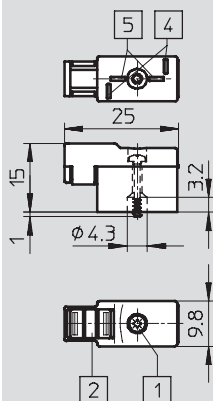
• For valves with ZB and ZC solenoid coils



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



- 1 Mounting screw
- 2 Inscription label
- 4 Connection pattern for ZB solenoid coil
- 5 Connection pattern for ZC solenoid coil

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

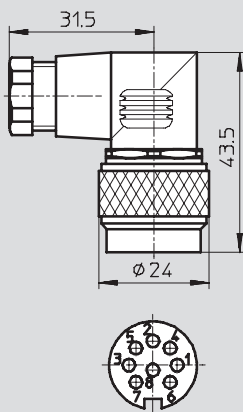
• For proportional pressure
regulators MPPE and MPPE-S



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



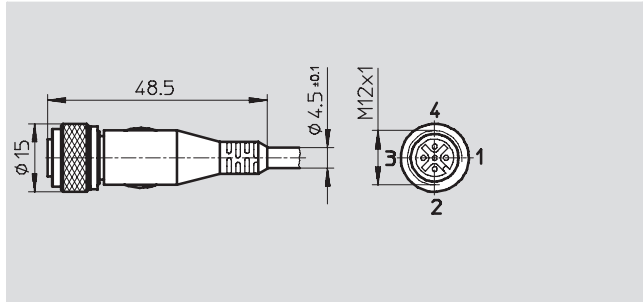
Ordering data		
	Description	Part No. Type
	Plug socket for proportional pressure regulators MPPE and MPPE-S	161 839 MPPE-3-B

Plug sockets with cable SIM

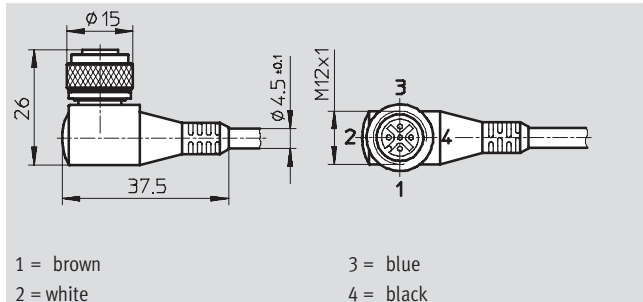
Technical data – M12x1, 4-pin

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	
Current-carrying capacity	[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-coated	
Ambient temperature			
Fixed cable installation	[°C]	−40 ... +70	
Flexible cable installation	[°C]	−5 ... +70	
Materials			
Cable sheath		Polyurethane	

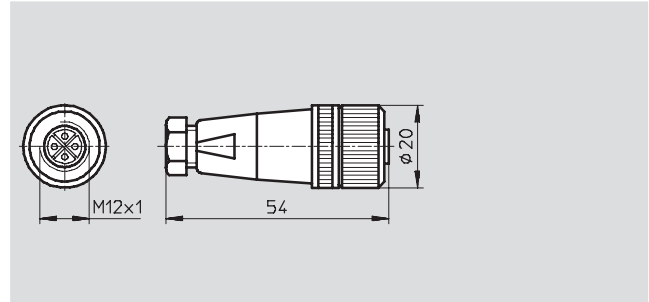
Ordering data			
	Part No.	Type	Part No. Type
Connection direction	In-line		Lateral
Cable length [m]	5	164 259 SIM-M12-4GD-5-PU	164 258 SIM-M12-4WD-5-PU

Plug sockets SIE

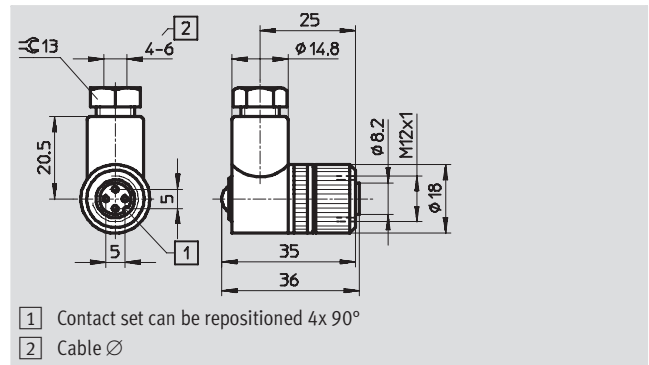
Technical data

FESTO

Straightsocket SIE-GD



Angled plug socket SIE-WD-TR



General technical data			
Connection direction		In-line	Lateral
Electrical data			
Electrical connection		Straight socket, M12x1, 4-pin	
Operating voltage range	AC	[V]	≤125
	DC	[V]	≤150
Current-carrying capacity		[A]	3
Cable connection		Screw terminal	
Perm. cable diameter		[mm]	4 ... 6
Max. wire cross section		[mm ²]	0.75
Ready status display		-	LED green (accessory)
Protection class to EN 60 529		IP67 (assembled)	
Ambient temperature		[°C]	-40 ... +85
Materials			
Housing		Polyamide	

Ordering data			
		Part No.	Type
Connection direction		In-line	Lateral
Plug socket		18 494	SIE-GD
Ready status display		-	12 957 SIE-LP-LED-GR

Plug sockets SEA-M12-WD

Technical data

FESTO

•  Temperature range
-40 ... +85°C

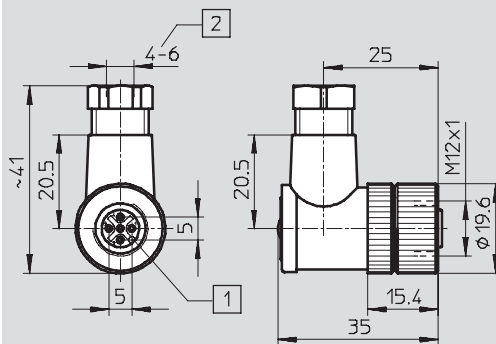
- For valves to ISO 15 407-1 (VDMA 24 563) and ISO 5599-1 with central plug M12x1



General technical data		
Perm. cable diameter	[mm]	4 ... 6
Wire cross section	[mm ²]	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



- 1 Contact set can be repositioned by 4x90°
- 2 Perm. cable diameter

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



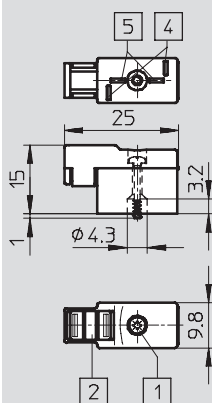
General technical data	
Electrical connection	Angled socket, square design MSZB
Wire cross section [mm ²]	0.22 ... 0.34
Number of pins	2
Type of mounting	Self-tapping central screw
Protection class to EN 60529	IP40 (assembled)
Operating voltage range [V DC]	3 ... 36
Nominal operating voltage [V DC]	24
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