

Plug socket MSSD

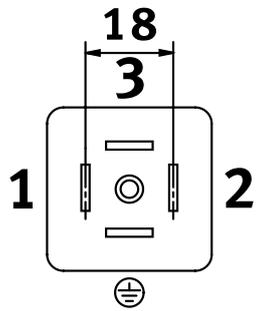
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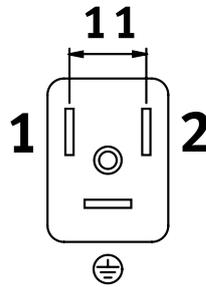
Characteristics

Electrical connection 1, connection technology

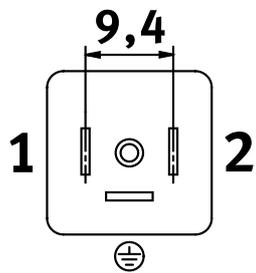
[C] Type A to EN 175301-803



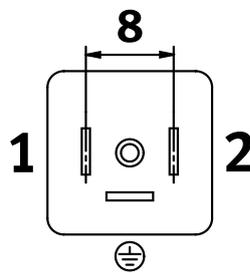
[F] Type B as per industry standard 11 mm



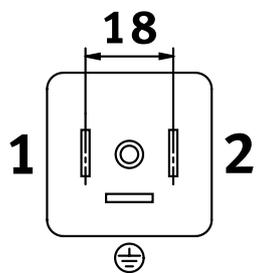
[E] Type C as per industry standard 9.4 mm



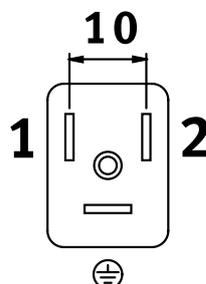
[EB] Type C to EN 175301-803



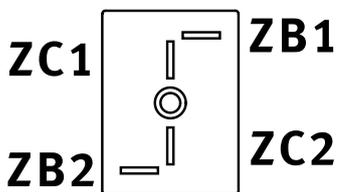
[N] Type A to EN 175301-803



[V] Type B to EN 175301-803



[ZBZC] Connection pattern ZB/ZC



Type code

001	Series	
MSSD	Plug socket	

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

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

004	Cable connector	
	Standard	
M12	M12	
M16	M16	
TY	Pg11	

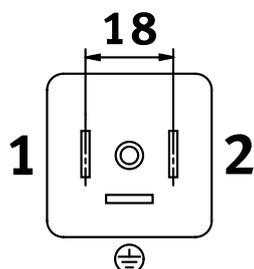
005	Operating voltage range	
	Standard	
24DC	0 ... 30 V DC, 0 ... 24 V AC	
24VDC	0 ... 30 V DC, 0 ... 24 V AC	

006	Version	
	Standard	
SD	Special design	

007	EU certification	
	None	
EX2	II 3GD	

Datasheet

General technical data – Electrical connection 1 socket type A according to EN 175301-803, 3-pin



Cable fitting	M16	M20x1.5	Pg 9
Based on standard	–	EN 175301-803	–
Type of mounting	On solenoid valve via M3 central screw	–	On solenoid valve via M3 central screw
Mounting position	optional	–	optional
Protective conductor connection	–	–	Available
Electrical connection	3-pin, Angled socket, Type A, To DIN EN 175301-803, Square design	–	3-pin, Angled socket, Type A, To DIN EN 175301-803, Square design MSC, Square design MSN1
Electrical connection 1, connection type	–	Socket	–
Electrical connection 1, design	–	Angular	–
Electrical connection 1, connector system	–	Plug pattern type A to EN 175301-803	–
Electrical connection 1, number of connections/cores	–	3	–
Electrical connection 1, type of mounting	–	On solenoid valve via M3 central screw	–
Electrical connection 2, connector system	–	Screw terminal	–
Cable outlet	–	Angled	–
Note on cable outlet	–	–	90° rotatable
Frequency of connection	50	–	–
Cable diameter	–	8 ... 10 mm	6 ... 8 mm
Permissible cable diameter	6 ... 8 mm	–	–
Connection cross section	1.5 mm ²	–	–
Nominal cross section conductor	–	1.5	–

Technical data – Electrical, Electrical connection 1 socket type A according to EN 175301-803, 3-pin

Cable fitting	M16	M20x1.5	Pg 9
Operational voltage range DC	–	0 ... 24 V	0 ... 300 V
Operational voltage range AC	–	0 ... 250 V	–
Current rating at 40° C	–	16 A	–

Materials – Electrical connection 1 socket type A to EN 175301-803, 3-pin

Cable fitting	M16	M20x1.5	Pg 9
Material housing	PA-reinforced	–	Polymer
Housing colour	–	Black	–
Material seals	HNBR	VMQ	NBR
Material screws	–	Steel	–
Note on materials	RoHS-compliant	–	–
LABS (PWIS) conformity	VDMA24364-B2-L	VDMA24364 zone III	VDMA24364-B2-L

Datasheet

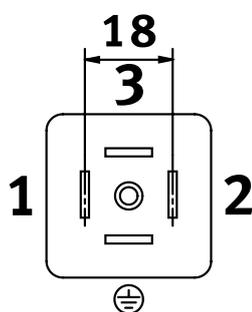
Operating and environmental conditions – Electrical connection 1 socket type A according to EN 175301-803, 3-pin

Cable fitting	M16	M20x1.5	Pg 9
Ambient temperature	-20 ... 115°C	-25 ... 80°C	-25 ... 90°C
CE mark (see declaration of conformity) ¹⁾	–		To EU Low Voltage Directive, In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity) ²⁾	–		To UK RoHS instructions, To UK regulations for electrical equipment
Degree of protection	IP65, To IEC 60529	IP65	
Note on degree of protection	–	In assembled state	
Maritime classification ³⁾	–		See certificate

 1) More information www.festo.com/catalogue/... Support/downloads.

 2) More information www.festo.com/catalogue/... Support/downloads.

 3) More information www.festo.com/catalogue/... Support/downloads.

General technical data – Electrical connection 1, socket type A to EN 175301-803, 4-pin


Type of mounting	On solenoid valve via M3 central screw
Mounting position	optional
Electrical connection	3-pin, Angled socket, Type A, To DIN EN 175301-803, Square design MSC, Square design MSN1
Frequency of connection	–
Cable diameter	6 ... 8 mm
Nominal cross section conductor	≤1.5 mm ²
Cable fitting	Pg 9

Materials – Electrical connection 1 socket type A according to EN 175301-803, 4-pin

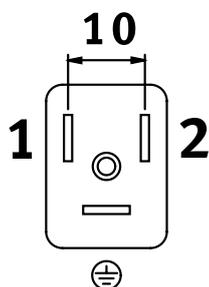
Material housing	Polymer
Housing colour	Black
Note on materials	RoHS-compliant

Operating and environmental conditions – Electrical connection 1 socket type A according to EN 175301-803, 4-pin

Ambient temperature	-25 ... 90°C
Degree of protection	IP65

Datasheet

General technical data – Electrical connection, 1 socket type B to EN 175301-803



Cable fitting	M16	Pg 9
Type of mounting	On solenoid valve via M3 central screw	
Mounting position	optional	
Electrical connection	3-pin, Angled socket, Type B, To DIN EN 175301-803, Square design	3-pin, Socket, Angled socket, Type B, To DIN EN 175301-803, Square design MSV
Frequency of connection	50	–
Cable diameter	–	6 ... 8 mm
Permissible cable diameter	6 ... 8 mm	–
Connection cross section	0.75 mm ²	–
Nominal cross section conductor	–	≤1.5 mm ²
Cable outlet	–	Angled
Note on cable outlet	–	180° rotatable
Protective conductor connection	–	Available

Materials – Electrical connection 1 socket type B according to EN 175301-803

Cable fitting	M16	Pg 9
Material housing	PA-reinforced	Polymer
Housing colour	–	Black
Material seals	HNBR	NBR
LABS (PWIS) conformity	VDMA24364-B2-L	

Operating and environmental conditions – Electrical connection 1 socket type B to EN 175301-803

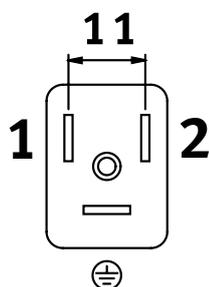
Cable fitting	M16	Pg 9
Ambient temperature	-20 ... 115°C	-25 ... 90°C
CE mark (see declaration of conformity) ¹⁾	–	To EU Low Voltage Directive, In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity) ²⁾	–	To UK RoHS instructions, To UK regulations for electrical equipment
Degree of protection	IP65, To IEC 60529	IP65
Note on degree of protection	–	In assembled state

1) More information www.festo.com/catalogue/... Support/Downloads.

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Datasheet

General technical data – Electrical connection 1 socket type B industry standard 11 mm



Nominal cross section conductor	≤0.75 mm ²	≤1.5 mm ²
Type of mounting	–	On solenoid valve via M3 central screw
Protective conductor connection	Available	
Electrical connection 1, type of mounting	On solenoid valve via M3 central screw	–
Mounting position	–	optional
Electrical connection	–	3-pin, Angled socket, Square design MSF
Electrical connection 1, connection type	Socket	
Electrical connection 1, design	Angular	
Electrical connection 1, connector system	Plug pattern type B to industry standard, 11 mm	–
Electrical connection 1, number of connections/cores	3	
Electrical connection 2, connector system	Screw terminal	–
Cable outlet	Angled	
Note on cable outlet	180° rotatable	
Cable fitting	M16x1.5	Pg 9
Frequency of connection	50	–
Cable diameter	6 ... 8 mm	

Technical data – Electrical, electrical connection 1 socket type B industry standard 11 mm

Nominal cross section conductor	≤0.75 mm ²	≤1.5 mm ²
Operational voltage range DC	0 ... 250 V	
Operational voltage range AC	0 ... 250 V	
Immunity to surge	2 kV	–
Current rating at 40° C	6 A	16 A

Materials – Electrical connection 1 socket type B industry standard 11 mm

Nominal cross section conductor	≤0.75 mm ²	≤1.5 mm ²
Material housing	PA-reinforced	Polymer
Housing colour	Black	
Material seals	HNBR	NBR
Note on materials	RoHS-compliant	–
LABS (PWIS) conformity	VDMA24364-B2-L	

Datasheet

Operating and environmental conditions – Electrical connection 1 socket type B industry standard 11 mm

Nominal cross section conductor	≤0.75 mm ²	≤1.5 mm ²
Ambient temperature	-20 ... 115°C	-25 ... 90°C
Corrosion resistance class CRC ¹⁾	1 - Low corrosion stress	–
Pollution degree	3	–
CE mark (see declaration of conformity) ²⁾	–	To EU Low Voltage Directive, In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity) ³⁾	–	To UK RoHS instructions, To UK regulations for electrical equipment
Degree of protection	IP65	
Note on degree of protection	In assembled state	

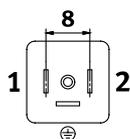
1) More information www.festo.com/x/topic/crc

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3) More information www.festo.com/catalogue/... Support/Downloads.

Datasheet

General technical data – Electrical connection 1 socket type C according to EN 175301-803, 3-pin



Connection cross section	0.25 ... 0.5 mm ²	0.5 ... 1.5 mm ²	0.75 mm ²
Based on standard	EN 175301-803	–	–
Conforms to standard	EN 61984	EN 175301-803	–
Type of mounting	–	–	On solenoid valve via M2.5 central screw
Mounting position	–	optional	–
Protective conductor connection	Available		
Electrical connection	–	–	3-pin, Socket, Angled socket, Type C, To DIN EN 175301-803, To DIN EN 61984, Square design MSEB, Square design MSN2
Electrical connection 1	–	Socket, to EN 175301-803, type C	–
Electrical connection 1, function	Field device side		–
Electrical connection 1, connector system	Plug pattern type C to EN 175301-803		–
Electrical connection 1, connection type	Socket		
Electrical connection 1, cable outlet	Angled	–	Angled
Electrical connection 1, design	Angular		
Electrical connection 1, number of connections/cores	3		
Electrical connection 1, used connections/cores	3		–
Electrical connection 1, type of mounting	On solenoid valve via M2.5 central screw		–
Electrical connection 1, tolerance for tightening torque	± 25%	–	
Electrical connection 2	–	–	Screw terminal
Electrical connection 2, function	Controller side		–
Electrical connection 2, connector system	Screw terminal		–
Electrical connection 2, connection type	–	Cable	–
Electrical connection 2, number of connections/cores	3		–
Electrical connection 2, used connections/cores	3		–
Electrical connection 2, tolerance for tightening torque	± 20%	–	
Frequency of connection	50		–
Cable diameter	–	4 ... 6 mm	6 ... 8 mm
Permissible cable diameter	4 ... 6 mm	–	7.5 mm
Cable fitting	M12x1.5	Pg7	
Nominal cross section conductor	–	–	≤0.75 mm ²
Cable outlet	Angled		
Note on cable outlet	90° rotatable		

Datasheet

Technical data – Electrical, electrical connection 1 socket type C to EN 175301-803, 3-pin

Connection cross section	0.25 ... 0.5 mm ²	0.5 ... 1.5 mm ²	0.75 mm ²
Nominal operating voltage DC	–		
Operational voltage range DC	0 ... 30 V	0 ... 300 V	
Nominal operating voltage AC	–		
Operational voltage range AC	0 ... 24 V	0 ... 250 V	
Immunity to surge	0.8 kV	4 kV	
Permissible current load	–		6 A
Current rating at 40° C	6 A		

Materials – Electrical connection 1 socket type C to EN 175301-803, 3-pin

Connection cross section	0.25 ... 0.5 mm ²	0.5 ... 1.5 mm ²	0.75 mm ²
Material housing	PA-reinforced	PA6 reinforced, Reinforced PA66	Polymer
Housing colour	Black		
Material seals	HNBR		NBR
Material electrical contact	Brass, tin-plated	Brass, Nickel-plated, Silver-plated	
Material screws	–	Galvanised steel	
Material screw-type lock	–	Galvanised steel	
Note on materials	RoHS-compliant		–
LABS (PWIS) conformity	VDMA24364-B2-L		

Operating and ambient conditions – Electrical connection 1 socket type C to EN 175301-803, 3-pin

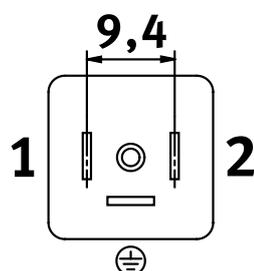
Connection cross section	0.25 ... 0.5 mm ²	0.5 ... 1.5 mm ²	0.75 mm ²
Ambient temperature	-25 ... 125°C	-40 ... 125°C	-45 ... 90°C
Corrosion resistance class CRC ¹⁾	2 - Moderate corrosion stress	1 - Low corrosion stress	–
CE mark (see declaration of conformity) ²⁾	–	To EU Low Voltage Directive, In accordance with EU RoHS Directive	
UKCA marking (see declaration of conformity)	–	To UK RoHS instructions, To UK regulations for electrical equipment	
Pollution degree	3		
Note on the contamination level	In mounted state		–
Degree of protection	IP65, To IEC 60529	IP67	IP65, To IEC 60529
Note on degree of protection	In assembled state		

1) More information at www.festo.com/x/topic/kbk

2) More information www.festo.com/catalogue/... Support/Downloads.

Datasheet

General technical data – Electrical connection 1 socket type C industry standard 9.4 mm



Cable fitting	M12	Pg7
Type of mounting	On solenoid valve via M3 central screw	
Mounting position	optional	
Electrical connection 1	Angled socket, square design, 3-pin, type C	
Electrical connection 2	Screw terminal	
Frequency of connection	50	–
Cable diameter	–	6 ... 8 mm
Permissible cable diameter	4 ... 6 mm	–
Connection cross section	0.75 mm ²	

Technical data – Electrical, electrical connection 1 socket type C industrial standard 9.4 mm

Cable fitting	M12	Pg7
Operational voltage range DC	0 ... 300 V	
Operational voltage range AC	0 ... 250 V	
Current rating at 40° C	6 A	

Materials – Electrical connection 1 socket type C industry standard 9.4 mm

Cable fitting	M12	Pg7
Material housing	PA-reinforced	
Housing colour	Black	
Material seals	HNBR	NBR
Note on materials	RoHS-compliant	

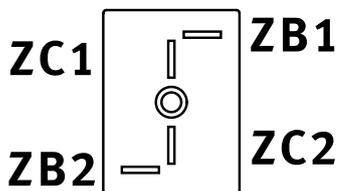
Operating and environmental conditions – Electrical connection 1 socket type C industry standard 9.4 mm

Cable fitting	M12	Pg7
Ambient temperature	-20 ... 115°C	-25 ... 90°C
Corrosion resistance class CRC ¹⁾	1 - Low corrosion stress	
Pollution degree	3	
Degree of protection	IP65, To IEC 60529	IP65

1) More information www.festo.com/x/topic/crc

Datasheet

General technical data – Electrical connection 1 socket plug pattern ZB/ZC



Type of mounting	On solenoid valve via self-tapping screw
Mounting position	optional
Electrical connection	Socket
Nominal cross section conductor	0.22 ... 0.34 mm ²

Technical data – Electrical, electrical connection 1 socket plug pattern ZB/ZC

Nominal operating voltage DC	24 V
Operational voltage range DC	3 ... 36 V

Materials – Electrical connection 1 socket plug pattern ZB/ZC

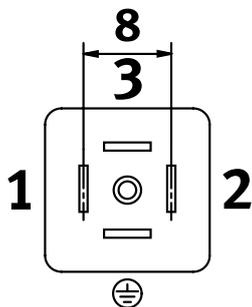
Material housing	PA
Note on materials	RoHS-compliant

Operating and environmental conditions – Electrical connection 1 socket plug pattern ZB/ZC

Ambient temperature	-10 ... 50°C
Corrosion resistance class CRC ¹⁾	1 - Low corrosion stress
Degree of protection	IP50
Maritime classification	See certificate

1) More information www.festo.com/x/topic/crc

General technical data – Adapters



Based on standard	EN 175301-803, EN 61076-2-101, EN 61984
Switching position indicator	LED
Type of mounting	On solenoid valve via M2.5 central screw
Electrical connection 1	Socket, to EN 175301-803, type C
Electrical connection 2	Straight plug connector, M12x1, 2-pin, A-coded

Datasheet

Technical data – Electrical, adapter

Nominal operating voltage DC	24 V
Operational voltage range DC	12 ... 24 V
Operational voltage range AC	12 ... 24 V
Immunity to surge	2.5 kV
Permissible current load	0.12 A

Materials – Adapter

Material housing	PA
Housing colour	Transparent
Material screw-type lock	Nickel-plated steel
Material seals	HNBR, NBR
Material electrical contact	Silver-plated copper alloy, Gold-plated brass

Operating and environmental conditions – Adapter

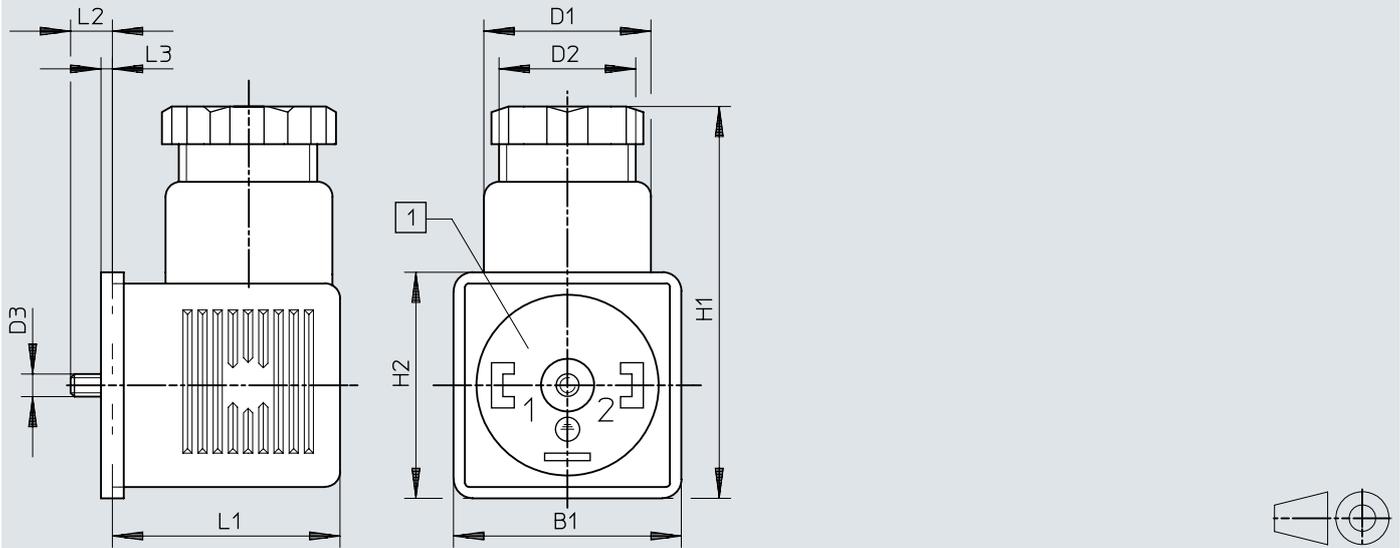
Ambient temperature	-10 ... 50°C
Corrosion resistance class CRC ¹⁾	2 - Moderate corrosion stress
Pollution degree	3
Degree of protection	IP65
LABS (PWIS) conformity	VDMA24364-B2-L

1) More information www.festo.com/x/topic/crc

Dimensions

Dimensions – Plug socket MSSD-C, 3-pin

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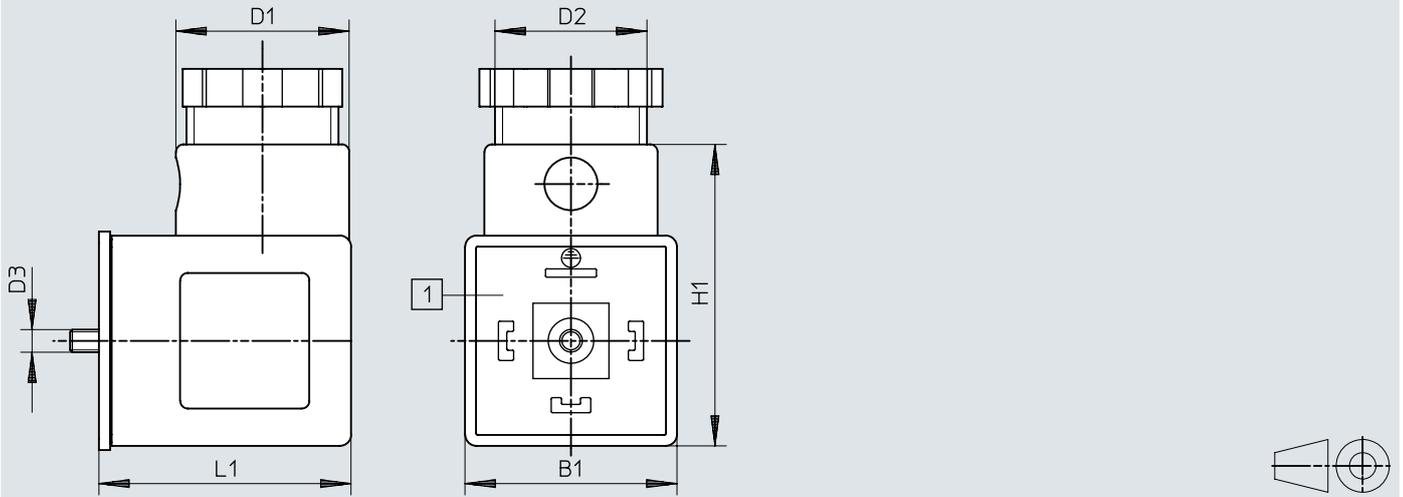
[1] Insert can be rotated 90°

	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

Dimensions

Dimensions – Plug socket MSSD-N, 3-pin

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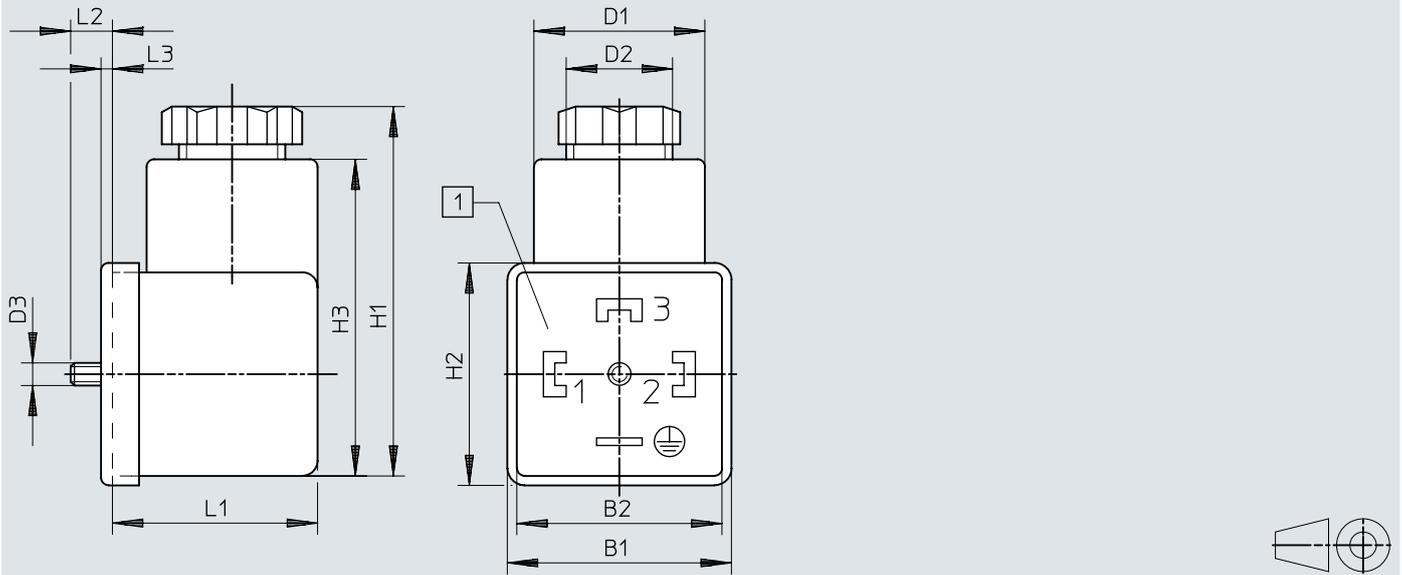
[1] Plug pattern type A to EN 175301-803

	B1	D1 ∅	D2 ∅	D3 ∅	H1	L1
MSSD-N	27,9	22,8	M20x1,5	M3	40	33,2

Dimensions

Dimensions – Plug socket MSSD-C, 4-pin

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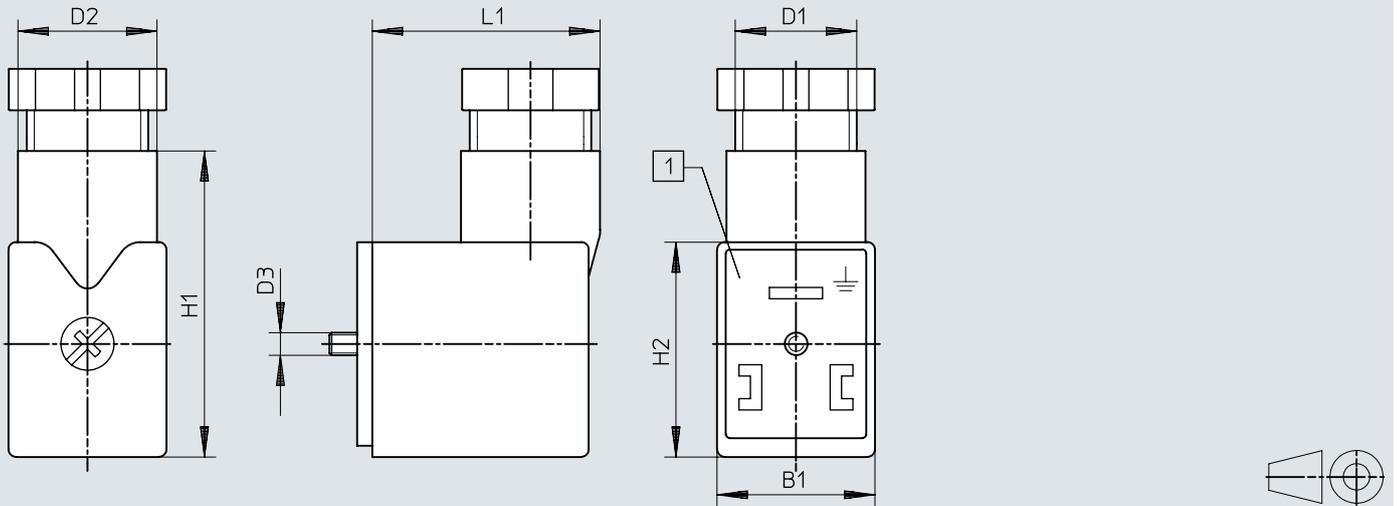
[1] Insert can be rotated 90°

	B1	B2	D1 ∅	D2 ∅	D3 ∅	H1	H2	H3	L1	L2	L3
MSSD-C-4P	29,5	27	23,8	Pg9	M3	49	29,5	42	27	5,5	1,5

Dimensions

Dimensions – Plug socket MSSD-V-M16

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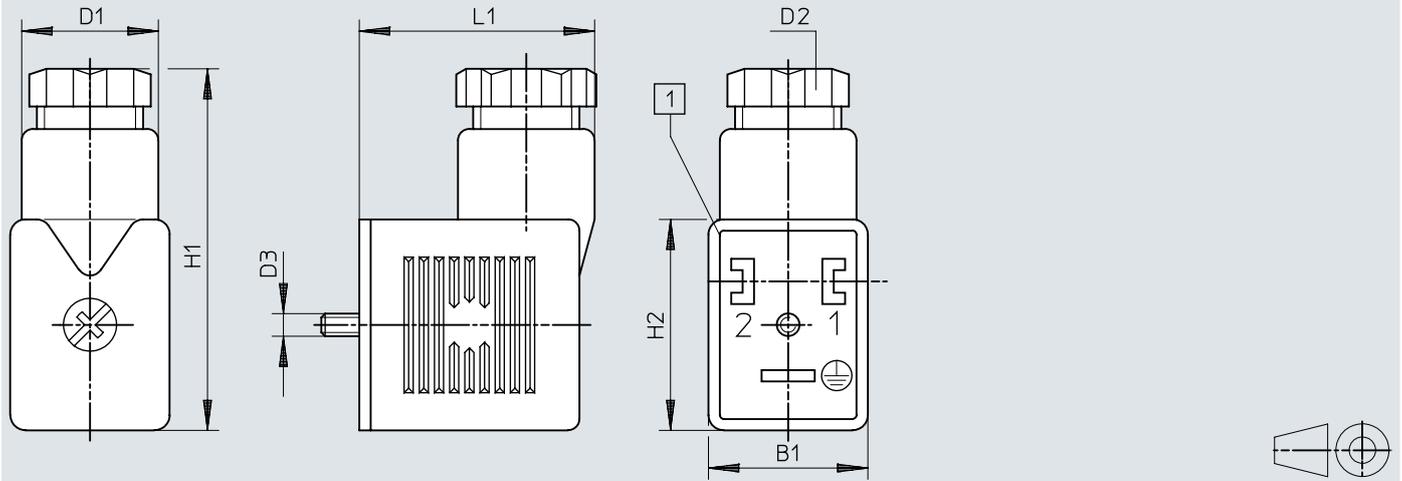
[1] Insert can be rotated 180°

	B1	D1	D2 ∅	D3	H1	H2	L1
MSSD-V-M16	20,8	M16x 1,5	18,3	M3	40,6	28,5	30

Dimensions

Dimensions – Plug socket MSSD-V

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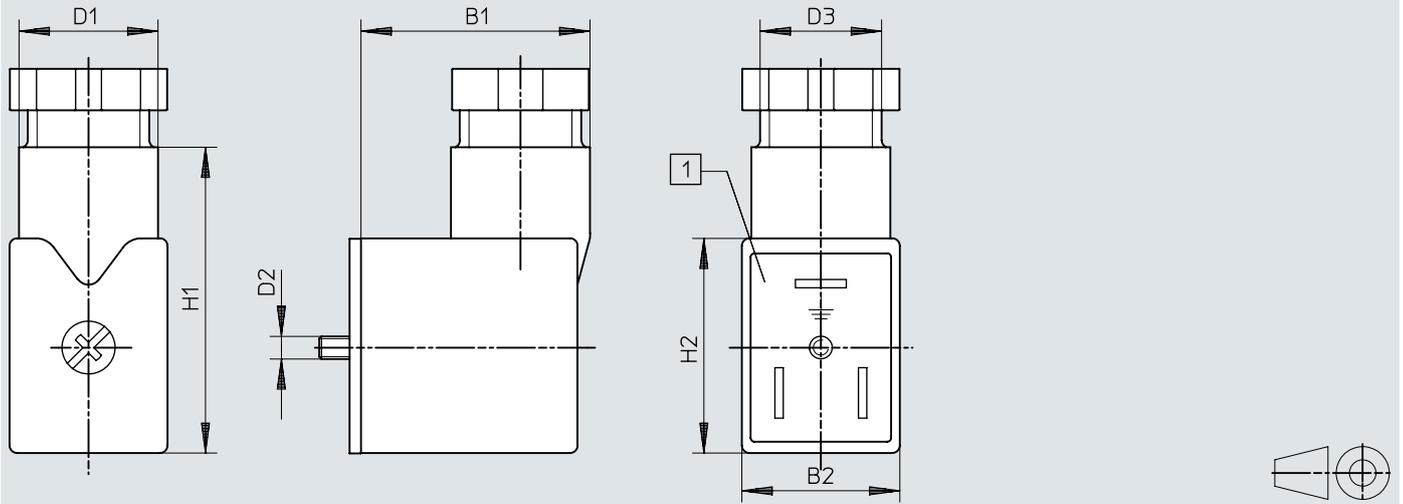
[1] Insert can be rotated 180°

	B1	D1 ∅	D2	D3	H1	H2	L1
MSSD-V	21	18	Pg9	M3	48	28	31

Dimensions

Dimensions – Plug socket MSSD-F-M16

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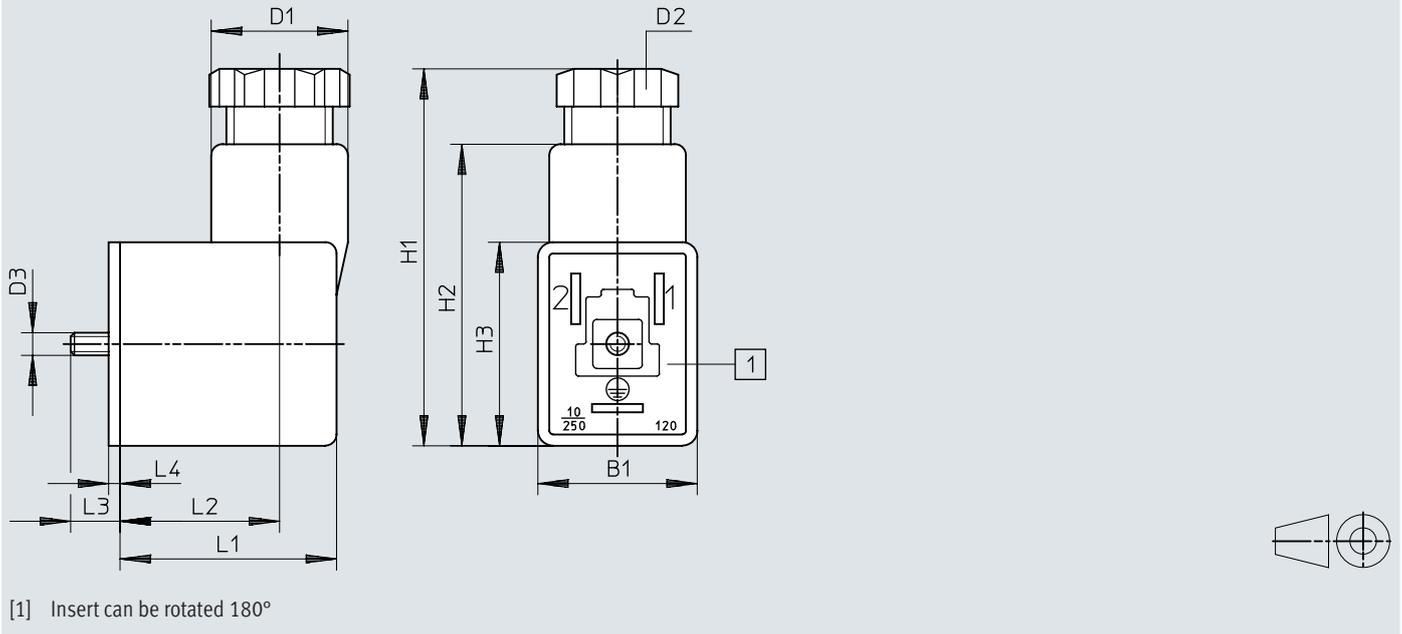
[1] Insert can be rotated 180°

	B1	B2	D1 ∅	D2	D3	H1	H2
MSSD-F-M16	30,2	20,8	18,3	M3	M16x 1,5	40,6	28,5

Dimensions

Dimensions – Plug socket MSSD-F

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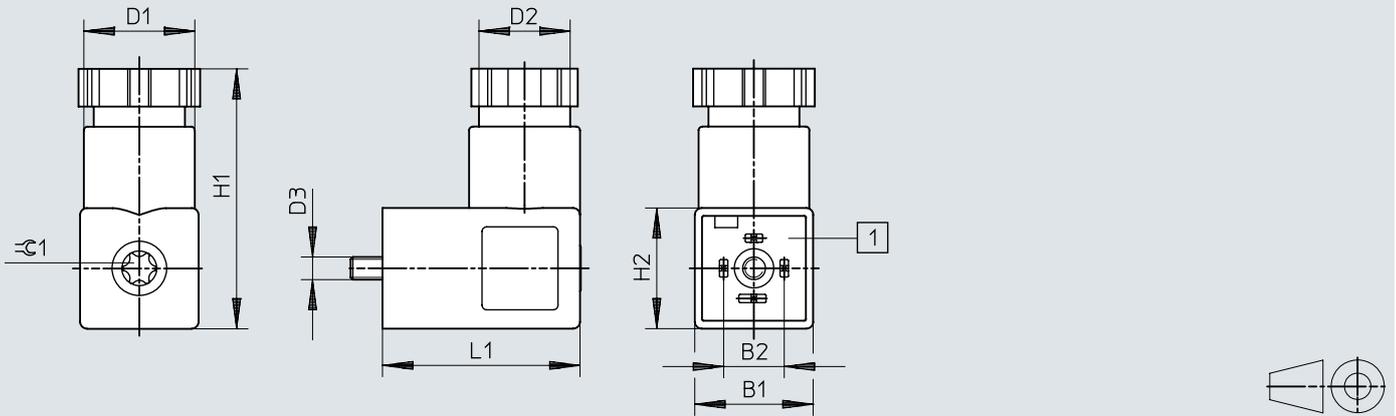


	B1	D1 ∅	D2 ∅	D3	H1	H2	L1	L2	L3	L4
MSSD-F	20,8	18,3	Pg9	M3	~50	40,6	28,5	21	5,5	±0,3

Dimensions

Dimensions – Plug socket MSSD-EB-M12-24VDC-SD-EX, 3-pin

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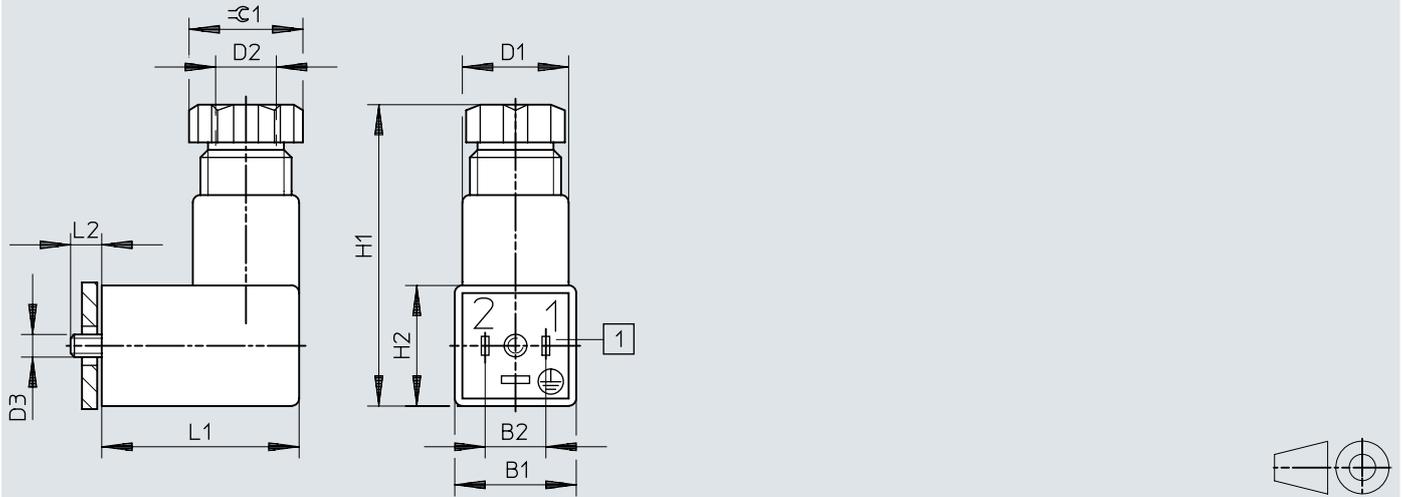
[1] Insert can be rotated 90°

	B1	B2	D1 ∅	D2 ∅	D3 ∅	H1	H2	L1	≙ 1
MSSD-EB-M12-24VDC-SD-EX	15,6	8	14,6	M12x 1,5	2,5	34,5	16	26	T8

Dimensions

Dimensions – Plug socket MSSD-EB, 3-pin

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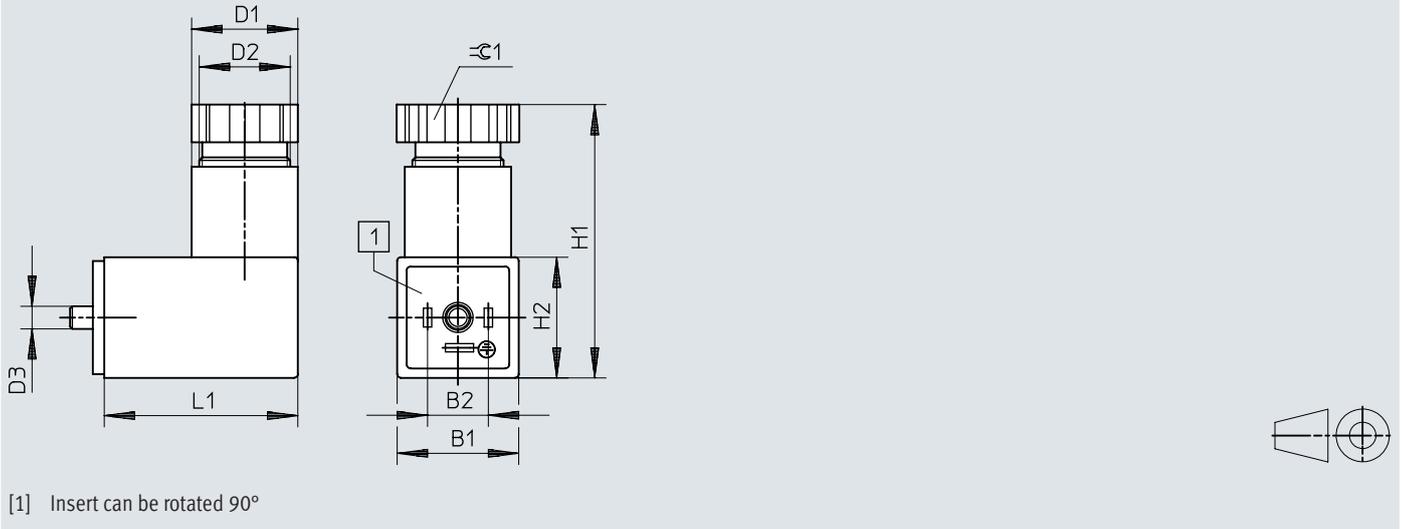
[1] Insert can be rotated 90°

	B1	B2	D1 ∅	D2 ∅	D3 ∅	H1	H2	L1	L2	≈C 1
MSSD-EB	15,5	8	15	Pg7	2,5	40	15,5	26	4,1	13

Dimensions

Dimensions – Plug socket MSSD-EB-M12, 3-pin

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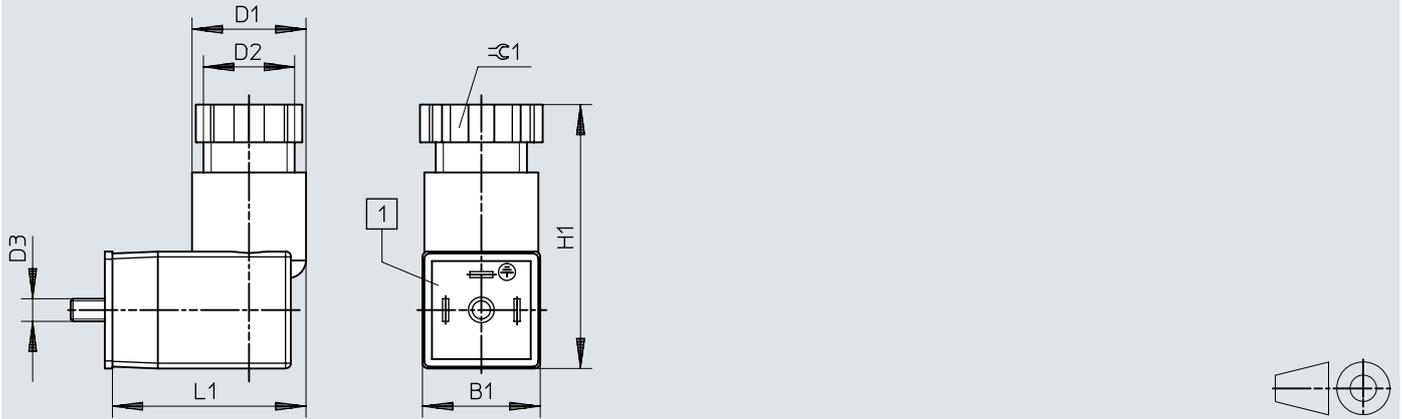


	B1	B2	D1 ∅	D2 ∅	D3 ∅	H1	H2	L1	≈∅ 1
MSSD-EB-M12	15,5	8	15	M12x 1,5	M2,5	33	15,5	25,5	13

Dimensions

Dimensions – Plug socket MSSD-E-M12

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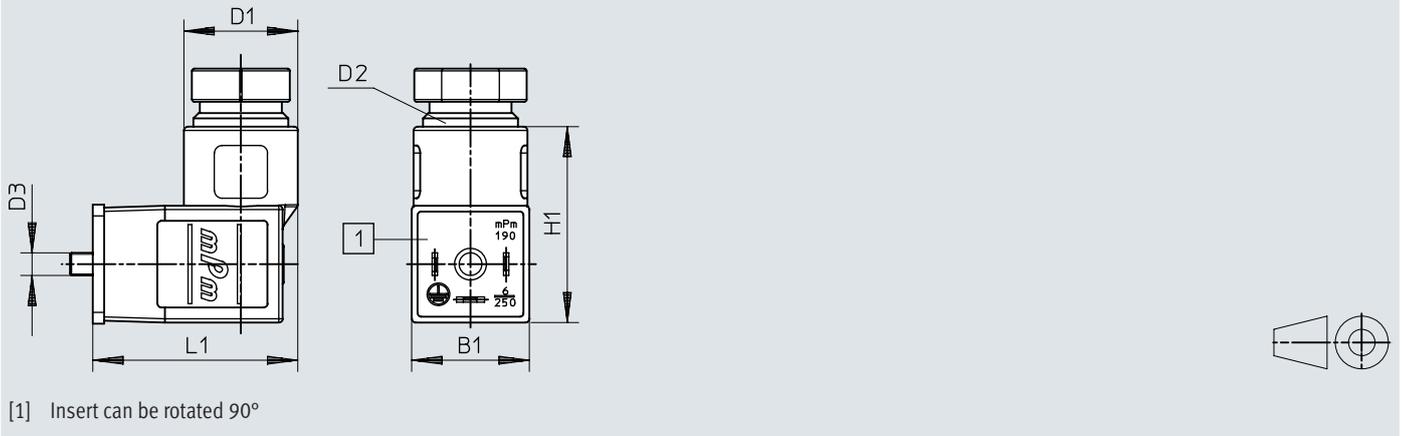
[1] Insert can be rotated 90°

	B1	D1 ∅	D2	D3	H1	L1	⊕ 1
MSSD-E-M12	15,5	15	M12x 1,5	M3	33	25,5	13

Dimensions

Dimensions – Plug socket MSSD-E

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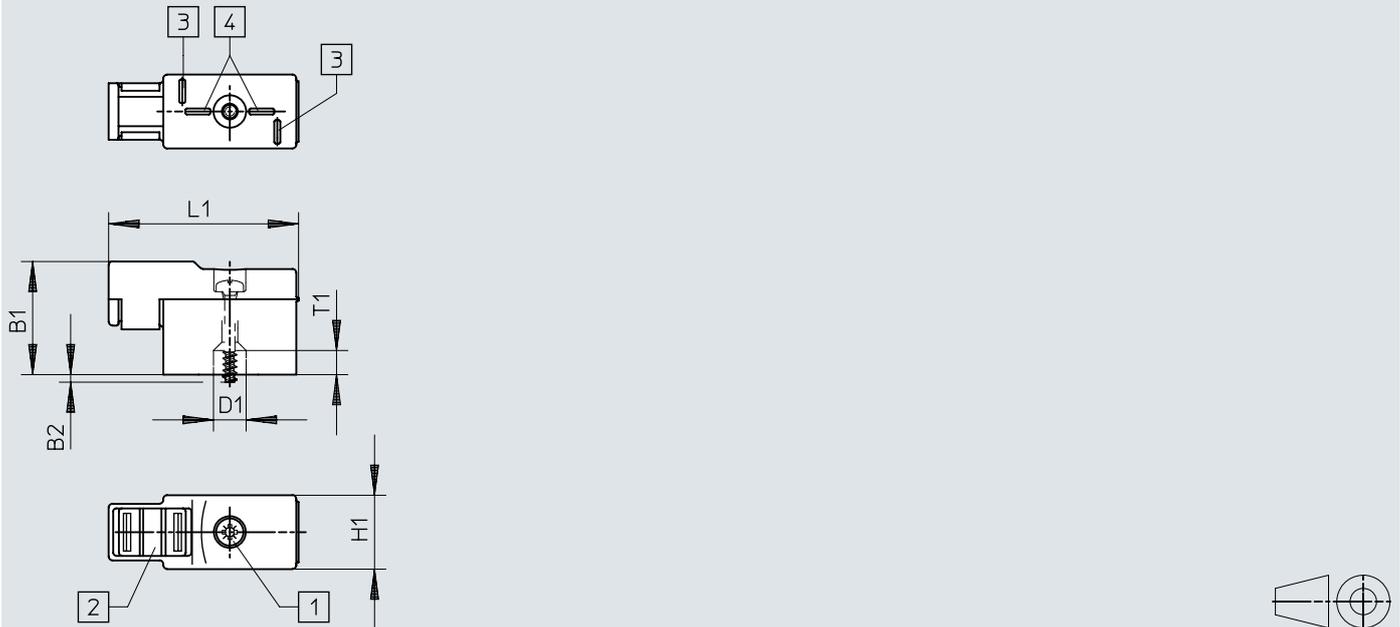
[1] Insert can be rotated 90°

	B1	D1 ∅	D2	D3	H1	L1
MSSD-E	15,5	14	Pg7	M3	24,5	25

Dimensions

Dimensions – Plug socket MSSD-ZBZC

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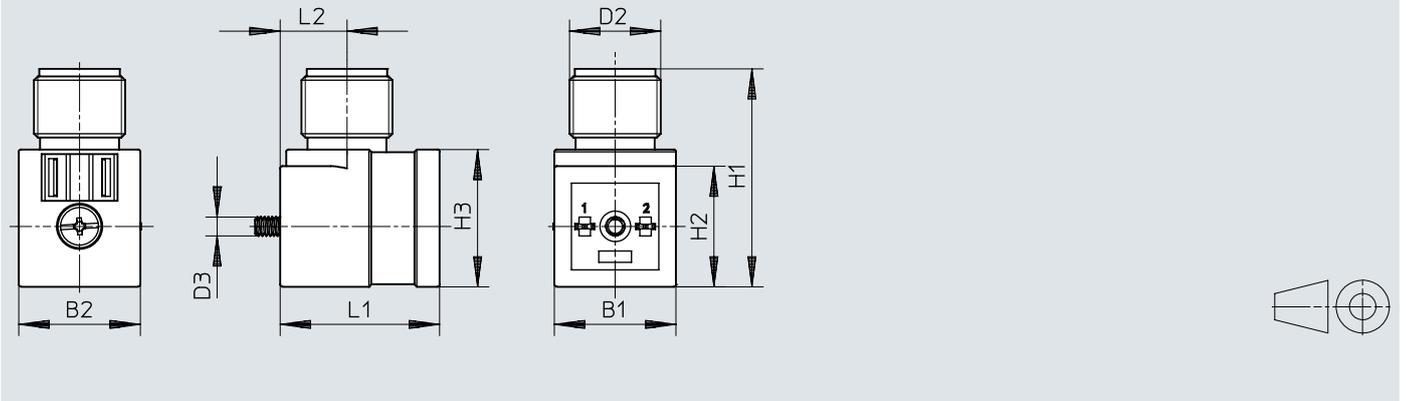
- [1] Retaining screw
- [2] Inscription label IBS-6x10
- [3] Plug pattern for ZB solenoid coil
- [4] Plug pattern for ZC solenoid coil

	B1	B2	D1 ∅	H1	L1	T1	H4	H5	L1	∅9
MSSD-ZBZC	15	1	4,3	9,8	25	3,2	35,6	2	14	9

Dimensions

Dimensions – Plug socket MSSD-EB-M12-MONO

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	B1	B2	D2	D3	H1	H2	H3	L1	L2
MSSD-EB-M12-MONO	16	16	M12x1	M2,5	28,9	16	18,2	21	8,8

Ordering data

Ordering data – Electrical connection 1 socket type A according to EN 175301-803, 3-pin

	Cable fitting	Cable diameter	Permissible cable diameter	Product weight	Part no.	Type
	M16		6 ... 8 mm	38 g	539709	MSSD-C-M16
	M20x1.5	8 ... 10 mm		30 g	550067	MSSD-N
	Pg 9	6 ... 8 mm		22 g	34583	MSSD-C

Ordering data – Electrical connection 1 socket type A according to EN 175301-803, 4-pin

	Cable fitting	Cable diameter	Nominal cross section conductor	Product weight	Part no.	Type
	Pg 9	6 ... 8 mm	1.5 mm ²	22 g	171157	MSSD-C-4P

Ordering data – Electrical connection 1, socket type B to EN 175301-803

	Cable fitting	Nominal cross section conductor	Connection cross section	Product weight	Part no.	Type
	M16		0.75 mm ²	35 g	539713	MSSD-V-M16
	Pg 9	1.5 mm ²		18 g	33295	MSSD-V

Ordering data – Electrical connection 1 socket type B industry standard 11 mm

	Nominal cross section conductor	Cable fitting	Electrical connection 2, connector system	Degree of protection	Product weight	Part no.	Type
	0.75 mm ²	M16x1.5	Screw terminal	IP65	35 g	539710	MSSD-F-M16
	1.5 mm ²	Pg 9			17 g	34431	MSSD-F

Ordering data – Electrical connection 1 socket type C in accordance with EN 175301-803, 3-pin

	Connection cross section	Permissible cable diameter	Product weight	Part no.	Type
	0.25 ... 0.5 mm ²	4 ... 6 mm	11 g	570367	MSSD-EB-M12-24VDC-SD-EX
	0.5 ... 1.5 mm ²			539712	MSSD-EB-M12
	0.75 mm ²	7.5 mm		151687	MSSD-EB

Ordering data

Ordering data – Electrical connection 1 socket type C Industrial standard 9.4 mm						
	Cable fitting	Cable diameter	Permissible cable diameter	Product weight	Part no.	Type
	M12		4 ... 6 mm	11 g	539711	MSSD-E-M12
	Pg7	6 ... 8 mm		8 g	14098	MSSD-E

Ordering data – Electrical connection 1 socket, plug pattern ZB/ZC					
	Nominal operating voltage DC	Nominal cross section conductor	Product weight	Part no.	Type
	24 V	0.22 ... 0.34 mm ²	11 g	185521	MSSD-ZBZC

Ordering information – Adapter					
	Electrical connection 1	Electrical connection 2	Product weight	Part no.	Type
	Socket, to EN 175301-803, type C	Straight plug connector, M12x1, 2-pin, A-coded	13.18 g	188024	MSSD-EB-M12-MONO

Ordering data – MSSD-C-TY-24DC					
	Degree of protection	Ambient temperature	Part no.	Type	
	IP65, To IEC 60529	-40 ... 90 °C	177617	MSSD-C-TY-24DC	