

Solenoid coil MSFG, MSFW

FESTO



Type code

001	Series	
MSFW	Solenoid coil MSFW, for alternating current	
MH	Solenoid coil MH	
MSG	Solenoid coil MSG, for direct current	
MD	Solenoid coil MD	
MSFG	Solenoid coil MSFG, for direct current	
MSN1W	Solenoid coil MSN1W, for alternating current	
MSN1G	Solenoid coil MSN1G, for direct current	
MSW	Solenoid coil MSW, for alternating current	

002	Operating voltage	
12	12 V DC	
24	24 V DC	
42	42 V DC	
110AC	110 V AC	
230AC	230 V AC	
24-50/60	24 V AC, 50/60 Hz	
24/42-50/60	24 V DC and 42 V AC, 50/60 Hz	
48-50/60	48 V AC, 50/60 Hz	
110-50/60	110 V AC, 50/60 Hz	
230-50/60	230 V AC, 50/60 Hz	
240-50/60	240 V AC, 50/60 Hz	
230AC-60	230 V AC, 60 Hz	
230VAC	230 V AC	
48AC	48 V AC	
12DC	12 V DC	
24AC	24 V AC	
42AC-60	42 V AC, 60 Hz	
110VAC	110 V AC	
42AC	42 V AC	
240AC	240 V AC	
24VDC	24 V DC	
24DC	24 V DC	
24AC/12DC	24 V AC and 12 V DC	
110AC-60	110 V AC, 60 Hz	

003	Electrical connection	
	Plug to industry standard, type B	
DS	Plug to EN 175301, type A	
PA	Plug pattern to EN 175301-803, type A	
004	Plug socket	
	Without	
P	With	
005	Explosion prevention and protection	
EX	Explosion-proof to EN 50 028	

Datasheet

General technical data – Solenoid coils MSF



Operating voltage	12 V DC	42 V DC	24 V AC, 50/60 Hz	24 V DC and 42 V AC, 50/60 Hz	48 V AC, 50/60 Hz	110 V AC, 50/60 Hz	230 V AC, 50/60 Hz	240 V AC, 50/60 Hz
Electrical connection	3-pin; Plug pins with connection pattern to Festo standard for MSSD-F							
Type of mounting	Via knurled nut							
Max. tightening torque for socket	0.4 Nm							
Mounting position	optional							
Switching position indicator	no							
Product weight	55 g							

General technical data - Solenoid coils MSF with deviation in electrical connection

Operating voltage	24 V DC and 42 V AC, 50/60 Hz	230 V AC, 50/60 Hz
Electrical connection	To DIN EN 175301-803	Type A; To DIN EN 175301-803
Type of mounting	Via knurled nut	
Max. tightening torque for socket	0.4 Nm	
Mounting position	optional	
Switching position indicator	no	
Product weight	55 g	

General technical data - Solenoid coils MSF in accordance with EU explosion protection directive (ATEX)

Electrical connection	3-pin Plug pins with connection pattern to Festo standard for MSSD-F
Type of mounting	Via knurled nut
Max. tightening torque for socket	0.4 Nm
Mounting position	optional
Switching position indicator	–
Product weight	55 g

General technical data - Solenoid coils MSF for maritime use

Electrical connection	Type A To DIN EN 175301-803
Type of mounting	Via knurled nut
Max. tightening torque for socket	0.4 Nm
Mounting position	optional
Switching position indicator	no
Product weight	55 g

Datasheet

Electrical data – Solenoid coils MSF

Operating voltage	12 V DC	42 V DC	24 V AC, 50/60 Hz	24 V DC and 42 V AC, 50/60 Hz	48 V AC, 50/60 Hz	110 V AC, 50/60 Hz	230 V AC, 50/60 Hz	240 V AC, 50/60 Hz
Characteristic coil data	12 V DC: 4.1 W	42 V DC: 5.5 W	24 V AC: 50/60 Hz, pick-up power 9.0 VA, holding power 7.0 VA	24 V DC: 4.5 W; 42 V AC: 50/60 Hz, pick-up power 9.0 VA, holding power 7.0 VA	48 V AC: 50/60 Hz, pick-up power 9.0 VA, holding power 7.0 VA	110 V AC: 50/60 Hz, pick-up power 9.0 VA, holding power 7.0 VA	230 V AC: 50/60 Hz, pick-up power 9.0 VA, holding power 7.0 VA	240 V AC: 50/60 Hz, pick-up power 9.0 VA, holding power 7.0 VA
Permissible voltage fluctuations	+/- 10%							
Permissible frequency fluctuations	–		+/- 5%					
Duty cycle	100%							
Power factor (cos phi)	–		0.7					
Min. pick-up time	10 ms							
Degree of protection	IP65							

Electrical data - Solenoid coils MSF in accordance with EU explosion protection directive (ATEX)

Electrical data – Solenoid coils must be in accordance with EU explosion protection directive (ATEX)				
Operating voltage	24 V DC	24 V AC, 50/60 Hz	110 V AC, 50/60 Hz	230 V AC, 50/60 Hz
Characteristic coil data	24 V DC: 4.5 W	24 V AC: 50/60 Hz, pick-up power 9.0 VA, holding power 7.0 VA	110 V AC: 50/60 Hz, pick-up power 9.0 VA, holding power 7.0 VA	230 V AC: 50/60 Hz, pick-up power 9.0 VA, holding power 7.0 VA
Permissible voltage fluctuations	+/- 10%			
Permissible frequency fluctuations	–	+/- 5%		
Duty cycle	100%			
Power factor (cos phi)	–	0.7		
Min. pick-up time	10 ms			
Degree of protection	IP65			

Electrical data - Solenoid coils MSF for maritime use

Operating voltage	24 V DC and 42 V AC, 50/60 Hz	110 V AC, 50/60 Hz	230 V AC, 50/60 Hz
Characteristic coil data	24 V DC: 4.5 W, 42 V AC: 50/60 Hz, pick-up power 9.0 VA, holding power 7.0 VA	110 V AC: 50/60 Hz, pick-up power 9.0 VA, holding power 7.0 VA	230 V AC: 50/60 Hz, pick-up power 9.0 VA, holding power 7.0 VA
Permissible voltage fluctuations	+/- 10%		
Permissible frequency fluctuations	+/- 5%		
Duty cycle	100%		
Power factor (cos phi)	0.7		
Min. pick-up time	10 ms		
Degree of protection	IP65		

ATEX – Solenoid coils MSF to EU Explosion Protection Directive (ATEX)

ATEX category gas	II 3G
Explosion ignition protection type for gas	Ex nA IIC T4 X Gc
ATEX category dust	II 3D
Explosion ignition protection type for dust	Ex tc IIIC T130°C X Dc IP65
Explosion ambient temperature	-5°C ≤ Ta ≤ +40°C
Explosion protection certification outside the EU	EPL Dc (CN) EPL Gc (CN)

Datasheet

Materials – Solenoid coils MSF

Operating voltage	12 V DC	42 V DC	24 V AC, 50/60 Hz	24 V DC and 42 V AC, 50/60 Hz	48 V AC, 50/60 Hz	110 V AC, 50/60 Hz	230 V AC, 50/60 Hz	240 V AC, 50/60 Hz
Electrical connection	3-pin, Plug pins with connection pattern to Festo standard for MSSD-F			To DIN EN 175301-803	3-pin, Plug pins with connection pattern to Festo standard for MSSD-F		Type A, To DIN EN 175301-803	3-pin, Plug pins with connection pattern to Festo stand- ard for MSSD-F
Material solenoid coil	Duroplast, Copper, Steel							
Material winding	Copper							
Note on materials	RoHS-compliant							
LABS (PWIS) conformity	VDMA24364-C1-L						VDMA24364- B2-L	VDMA24364- C1-L

Materials - Solenoid coils MSF in accordance with EU explosion protection directive (ATEX)

Material solenoid coil	Duroplast, Copper, Steel
Material winding	Copper
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364-B2-L

Material - Solenoid coils MSF for maritime use

Material solenoid coil	Duroplast, Copper, Steel
Material winding	Copper
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364-C1-L

Operating and ambient conditions – Solenoid coils MSF

Operating voltage	12 V DC	42 V DC	24 V AC, 50/60 Hz	24 V DC and 42 V AC, 50/60 Hz	48 V AC, 50/60 Hz	110 V AC, 50/60 Hz	230 V AC, 50/60 Hz	240 V AC, 50/60 Hz
Ambient temperature	-5 ... 40°C							
CE mark (see declaration of conformity)	–					To EU Low Voltage Directive		
UKCA marking (see declaration of conformity)	–					To UK regulations for electrical equipment		
Maritime classification	–							

Operating and environmental conditions – Solenoid coils MSF to EU Explosion Protection Directive (ATEX)

Operating and environmental conditions: Solenoid coils must be to EU Explosion Protection Directive (ATEX)				
Operating voltage	24 V DC	24 V AC, 50/60 Hz	110 V AC, 50/60 Hz	230 V AC, 50/60 Hz
Ambient temperature	-5 ... 40°C			
CE mark (see declaration of conformity) ¹⁾	To EU Explosion Protection Directive (ATEX)		To EU Explosion Protection Directive (ATEX) To EU Low Voltage Directive	
UKCA marking (see declaration of conformity) ²⁾	–			
Maritime classification	–			

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Operating and environmental conditions - Solenoid coils MSF for maritime use

Operating voltage	24 V DC and 42 V AC, 50/60 Hz	110 V AC, 50/60 Hz	230 V AC, 50/60 Hz
Ambient temperature	-5 ... 40°C		
CE mark (see declaration of conformity) ¹⁾	–		To EU Low Voltage Directive
UKCA marking (see declaration of conformity) ²⁾	–		To UK regulations for electrical equipment
Maritime classification	See certificate		

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Datasheet

General technical data – Solenoid coils BMSF



Electrical connection	3-pin, Plug pins with connection pattern to Festo standard for MSSD-F
Type of mounting	Via knurled nut
Max. tightening torque for socket	0.4 Nm
Mounting position	optional
Switching position indicator	no
Product weight	55 g

Electrical data – Solenoid coils BMSF

Electrical connection	3-pin, Plug pins with connection pattern to Festo standard for MSSD-F
Characteristic coil data	120 V AC: 60 Hz, pick-up power 10.0 VA, holding power 8 VA
Permissible voltage fluctuations	+/- 10%
Permissible frequency fluctuations	+/- 5%
Duty cycle	100%
Power factor (cos phi)	0.7
Min. pick-up time	10 ms
Degree of protection	IP65

Materials – Solenoid coils BMSF

Material solenoid coil	Duroplast, Copper, Steel
Material winding	Copper
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364-C1-L

Operating and ambient conditions – Solenoid coils BMSF

Ambient temperature	-5 ... 40°C
CE mark (see declaration of conformity) ¹⁾	To EU Low Voltage Directive
UKCA marking (see declaration of conformity) ²⁾	To UK regulations for electrical equipment

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Datasheet

General technical data – Solenoid coils MH



Electrical connection	To DIN EN 175301-803
Type of mounting	Via lock nut
Max. tightening torque for fitting	2
Mounting position	optional
Switching position indicator	no
Product weight	150 g

Electrical data – Solenoid coils MH

Operating voltage	24 V DC	110 V AC	230 V AC
Characteristic coil data	24 V DC: 7.9 W	110 V AC: 14.0 VA	230 V AC: 14.0 VA
Min. pick-up time	12		
Permissible voltage fluctuations	+/- 10%		
Permissible frequency fluctuations	+/- 10%		
Duty cycle	100%		
Power factor (cos phi)	0.7		
Degree of protection	IP65		
Note on degree of protection	IP00 without connector socket		

Materials – Solenoid coils MH

Material solenoid coil	Duroplast, Copper, Steel
Material winding	Copper
LABS (PWIS) conformity	VDMA24364 zone III

Operation and environmental conditions - Solenoid coils MH

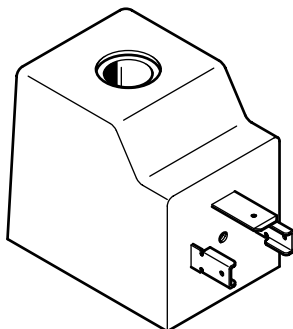
Operating voltage	24 V DC	110 V AC	230 V AC
Ambient temperature	-20 ... 50°C		
CE mark (see declaration of conformity) ¹⁾	–	To EU Low Voltage Directive	
UKCA marking (see declaration of conformity) ²⁾	–	To UK regulations for electrical equipment	

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Datasheet

General technical data – Solenoid coils MS



Electrical connection	Type A; Plugs; To EN 175301-803
Type of actuation	Electric
Type of mounting	External hex 1/8; Retaining clip
Mounting position	optional

Electrical data – Solenoid coils MS

Operating voltage	12 V DC	42 V AC, 60 Hz	24 V DC	48 V AC	24 V AC	42 V AC
Characteristic coil data	12 V DC: 11.7 W	42 V AC: 60 Hz, pick-up power 36 VA, holding power 28 VA	24 V DC: 11.5 W	48 V AC: 50 Hz, pick-up power 30.0 VA, holding power 22.0 VA	24 V AC: 50 Hz, pick-up power 30.0 VA, holding power 22.0 VA	42 V AC: 50 Hz, pick-up power 30 VA, holding power 22 VA
Min. pick-up time	10 ms					
Permissible voltage fluctuations	± 10%					
Duty cycle	100%					
Insulation material class	F					
Degree of protection	IP65					

Electrical data – Solenoid coils MS

Operating voltage	110 V AC	230 V AC	230 V AC, 60 Hz	240 V AC	110 V AC, 60 Hz
Characteristic coil data	110 V AC: 50 Hz, pick-up power 30 VA, holding power 22 VA	230 V AC: 50 Hz, pick-up power 30 VA, holding power 22 VA	220 V AC: 60 Hz, pick-up power 36 VA, holding power 28 VA	240 V AC: 50 Hz, pick-up power 30.0 VA, holding power 22.0 VA	110 V AC: 60 Hz, pick-up power 36 VA, holding power 28 VA
Min. pick-up time	10 ms				
Permissible voltage fluctuations	± 10%				
Duty cycle	100%				
Insulation material class	F				
Degree of protection	IP65				

Materials – Solenoid coils MS

Material solenoid coil	Duroplast
Material electrical contact	Brass, tin-plated
Material winding	Copper
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364-C1-L

Operation and environmental conditions - Solenoid coils MS

Operating voltage	12 V DC	42 V AC, 60 Hz	24 V DC	48 V AC	24 V AC	42 V AC
Ambient temperature	-5 ... 50°C					
Storage temperature	-10 ... 60°C					
CE mark (see declaration of conformity) ¹⁾	–					
UKCA marking (see declaration of conformity) ²⁾	–					

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Datasheet

Operating and environmental conditions – Solenoid coils MS

Operating voltage	110 V AC	230 V AC	230 V AC, 60 Hz	240 V AC	110 V AC, 60 Hz
Ambient temperature	-5 ... 50°C				
Storage temperature	-10 ... 60°C				
CE mark (see declaration of conformity) ¹⁾	To EU Low Voltage Directive				
UKCA marking (see declaration of conformity) ²⁾	To UK regulations for electrical equipment				

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General technical data – Solenoid coils MD



Operating voltage	24 V DC	110 V AC	230 V AC
Electrical connection	To DIN EN 175301-803		
Type of actuation	–	Electric	
Type of mounting	Via knurled nut		
Max. tightening torque for fitting	0.5 Nm		
Mounting position	optional		
Product weight	110 g		

Electrical data – Solenoid coils MD

Operating voltage	24 V DC	110 V AC	230 V AC
Characteristic coil data	24 V DC: 6.8 W	110 V AC: 50/60 Hz, pick-up power 14.5 VA, holding power 10.5 VA	230 V AC: 50/60 Hz, pick-up power 14.5 VA, holding power 10.5 VA
Permissible voltage fluctuations	+/- 10%		
Permissible frequency fluctuations	–	+/- 10%	
Duty cycle	100%		
Power factor (cos phi)	–	0.7	
Degree of protection	IP65		

Materials – solenoid coils MD

Material solenoid coil	Duroplast, Copper, Steel
Material winding	Copper
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364-B2-L

Datasheet

Operation and environmental conditions - Solenoid coils MD

Operating voltage	24 V DC	110 V AC	230 V AC
Ambient temperature	-20 ... 50°C		
CE mark (see declaration of conformity) ¹⁾	–	To EU Low Voltage Directive	
UKCA marking (see declaration of conformity) ²⁾	–	To UK regulations for electrical equipment	

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General technical data – Solenoid coils MSN1



Operating voltage	110 V AC	230 V AC	24 V DC	24 V AC and 12 V DC
Electrical connection	3-pin; Type A; To DIN EN 175301-803			3-pin; Type A; Clip-on; To DIN EN 175301-803
Type of mounting	Clamped, Via retaining clamp, With accessories			Clamped, Via retaining clamp
Mounting position	optional			
Product weight	80 g			

Electrical data – Solenoid coils MSN1

Operating voltage	110 V AC	230 V AC	24 V DC	24 V AC and 12 V DC
Characteristic coil data	110 V AC: 50 Hz, pick-up power 7.5 VA, holding power 5.0 VA 110 V AC: 60 Hz, pick-up power 5.0 VA, holding power 3.7 VA 120 V AC: 60 Hz, pick-up power 5.0 VA, holding power 3.7 VA	230 V AC: 50 Hz, pick-up power 7.5 VA, holding power 5.0 VA 230 V AC: 60 Hz, pick-up power 5.0 VA, holding power 3.7 VA	24 V DC: 2.5 W	12 V DC: 5.0 W 24 V AC: 50 Hz, pick-up power 7.5 VA, holding power 5.0 VA 24 V AC: 60 Hz, pick-up power 5.0 VA, holding power 3.7 VA
Min. pick-up time	10 ms			
Permissible voltage fluctuations	At 50 Hz ± 10%, With 60 Hz -10...+20%	+/- 10%	-15%/+10%	At 50 Hz ± 10%, With 60 Hz -10...+20%
Duty cycle	100%			
Power factor (cos phi)	0.7		–	0.7
Degree of protection	IP65			

Materials – Solenoid coils MSN1

Material housing	PA
Material electrical contact	Steel
Material winding	Copper
LABS (PWIS) conformity	VDMA24364-C1-L

Datasheet

Operating and environmental conditions - Solenoid coils MSN1				
Operating voltage	110 V AC	230 V AC	24 V DC	24 V AC and 12 V DC
Ambient temperature	-10 ... 50°C			
Media temperature	-10 ... 50°C			
CE mark (see declaration of conformity) ¹⁾	To EU Low Voltage Directive		–	
UKCA marking (see declaration of conformity) ²⁾	To UK regulations for electrical equipment		–	
Approval	–		c UL us - Recognized (OL)	–
Maritime classification	See certificate		–	

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Dimensions

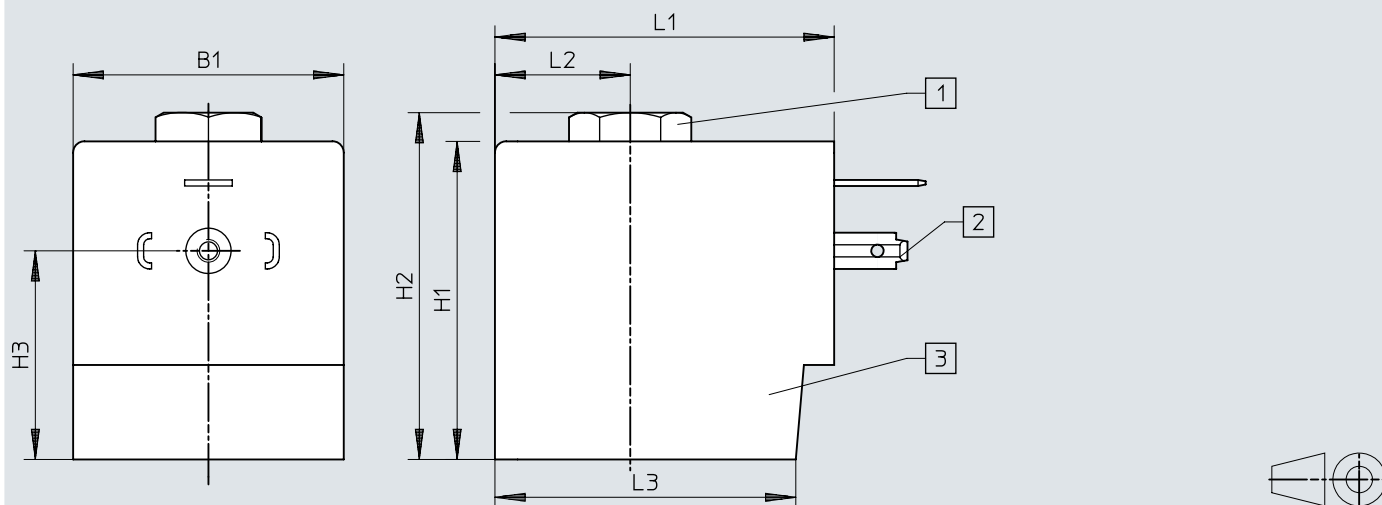
Dimensions – Solenoid coils MSF Download CAD data www.festo.com

[1] Retaining nut
[2] Solenoid coil (can be rotated 360° on the armature tube)
[3] Plug vanes

	B1	H1	H2	L1	L2
MSFG-...	22	29	33,8	29,5	12,5
MSFW-...					
MSFG-...-EX					
MSFW-...-EX					

Dimensions

Dimensions – Solenoid coils MH

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


[1] Nut 6KT G1/8

[2] Plug pattern according to EN 175301-803, type A

[3] Solenoid coil

	B1	H1	H2 +1 -0,5	H3	L1 +0,2 -0,4	L2	L3
MH-2-24VDC-PA	35,8	42,1	45,9	27,6	45,5	18	39,8
MH-2-110VAC-PA							
MH-2-230VAC-PA							

Dimensions

Dimensions – Solenoid coils MD

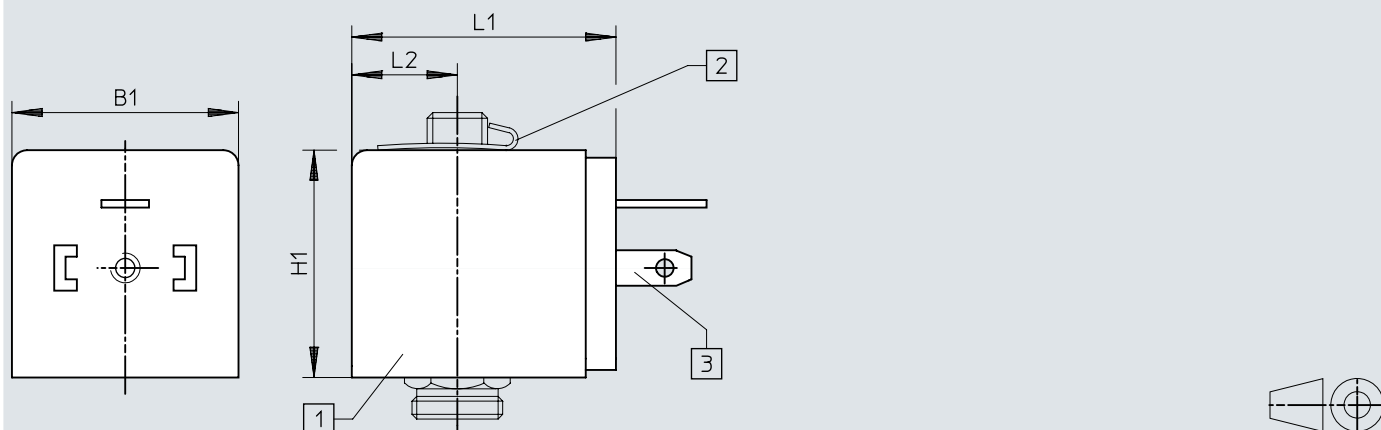
Download CAD data www.festo.com

[1] Knurled nut M8x0.75
[2] Plug pattern according to EN 175301-803, type A
[3] Solenoid coil

	B1	H1	H2	H3	L1	L2
	-0,6	+0,3			+0,2 -0,4	±0,2
MD-2-24VDC-PA	30	29,5	34,3	15,3	35,5	14,7
MD-2-110VAC-PA						
MD-2-230VAC-PA						

Dimensions

Dimensions – Solenoid coils MSN1

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- [1] Magnetic coil can be rotated on the armature
- [2] Mounting clip
- [3] Plug vanes

	B1 -0,1 0,8	H1 -0,4	L1 ±0,2	L2 +0,2 -0,1
MSN1W-24AC/12DC	30	30	35,5	14,5
MSN1G-24DC-OD				
MSN1W-110AC-OD				
MSN1W-230AC-OD				

Ordering data

Ordering data – Solenoid coils MSF					
	Electrical connection	Operating voltage	Product weight	Part no.	Type
	3-pin, Plug pins with connection pattern to Festo standard for MSSD-F	12 V DC	55 g	4526	MSFG-12
		42 V DC		34410	MSFG-12-OD
		24 V AC, 50/60 Hz		34413	MSFG-42-OD
		24 V DC and 42 V AC, 50/60 Hz		4534	MSFW-24-50/60
		48 V AC, 50/60 Hz		34415	MSFW-24-50/60-OD
		110 V AC, 50/60 Hz		34411	MSFG-24/42-50/60-OD
		230 V AC, 50/60 Hz		4527	MSFG-24/42-50/60
		240 V AC, 50/60 Hz		34418	MSFW-48-50/60-OD
		230 V AC, 50/60 Hz		6720	MSFW-110-50/60
		240 V AC, 50/60 Hz		34420	MSFW-110-50/60-OD
		230 V AC, 50/60 Hz		4540	MSFW-230-50/60
		240 V AC, 50/60 Hz		34422	MSFW-230-50/60-OD
		240 V AC, 50/60 Hz		34424	MSFW-240-50/60-OD
	Type A, To DIN EN 175301-803	230 V AC, 50/60 Hz		175118	MSFW-230-50/60-DS-OD
	To DIN EN 175301-803	24 V DC and 42 V AC, 50/60 Hz		34412	MSFG-24/42-50/60-DS-OD

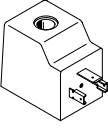
Ordering data - Solenoid coils MSF in accordance with EU explosion protection directive (ATEX)				
	Electrical connection	Operating voltage	Part no.	Type
	3-pin, Plug pins with connection pattern to Festo standard for MSSD-F	24 V DC	536931	MSFG-24-EX
		24 V AC, 50/60 Hz	536932	MSFW-24-50/60-EX
		110 V AC, 50/60 Hz	536933	MSFW-110-50/60-EX
		230 V AC, 50/60 Hz	536934	MSFW-230-50/60-EX

Ordering information - Solenoid coils MSF for maritime use				
	Electrical connection	Operating voltage	Part no.	Type
	Type A, To DIN EN 175301-803	24 V DC and 42 V AC, 50/60 Hz	13264	MSFG-24/42-50/60-DS
		110 V AC, 50/60 Hz	13265	MSFW-110-50/60-DS
		230 V AC, 50/60 Hz	13266	MSFW-230-50/60-DS

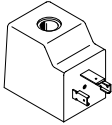
Ordering data - Solenoid coils BMSF				
	Electrical connection	Operating voltage ¹⁾	Part no.	Type
	3-pin, Plug pins with connection pattern to Festo standard for MSSD-F	120 V DC and 60 V AC	104080	BMSFW-120/60

1) Selected types only available in certain countries.

Ordering data – Solenoid coils MH				
	Electrical connection	Operating voltage	Part no.	Type
	To DIN EN 175301-803	24 V DC	549906	MH-2-24VDC-PA
		230 V AC	549908	MH-2-230VAC-PA
		110 V AC	549907	MH-2-110VAC-PA

Ordering data – Solenoid coils MS					
	Electrical connection	Operating voltage	Product weight	Part no.	Type
	Type A, Plugs, To EN 175301-803	110 V AC	150 g	34405	MSW-110AC-OD

Ordering data

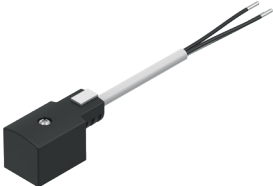
Ordering data – Solenoid coils MS					
	Electrical connection	Operating voltage	Product weight	Part no.	Type
	Type A, Plugs, To EN 175301-803	110 V AC	175 g	3591	MSW-110AC
		230 V AC	150 g	34407	MSW-230AC-OD
			175 g	3592	MSW-230AC
		24 V AC	150 g	34402	MSW-24AC-OD
		240 V AC		34409	MSW-240AC-OD
		48 V AC		34404	MSW-48AC-OD
		230 V AC, 60 Hz		34408	MSW-230AC-60-OD
		12 V DC		34400	MSG-12DC-OD
		24 V DC		34401	MSG-24-OD
		110 V AC, 60 Hz		34406	MSW-110AC-60-OD
		42 V AC		34403	MSW-42AC-OD
		24 V DC	175 g	3599	MSG-24DC
		24 V AC		3589	MSW-24AC
		42 V AC, 60 Hz		7705	MSW-42AC-60
		12 V DC		3598	MSG-12DC
		42 V AC		3594	MSW-42AC

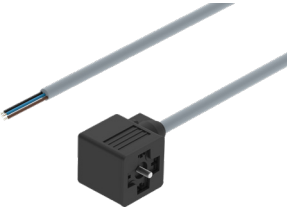
Ordering data – Solenoid coils MD				
	Electrical connection	Operating voltage	Part no.	Type
	To DIN EN 175301-803	230 V AC	549905	MD-2-230VAC-PA
		24 V DC	549903	MD-2-24VDC-PA
		110 V AC	549904	MD-2-110VAC-PA

Ordering data – Solenoid coils MSN1				
	Electrical connection	Operating voltage	Part no.	Type
	3-pin, Type A, To DIN EN 175301-803	110 V AC	123061	MSN1W-110AC-OD
		230 V AC	123062	MSN1W-230AC-OD
	3-pin, Type A, Clip-on, To DIN EN 175301-803	24 V AC and 12 V DC	170152	MSN1W-24AC/12DC
	3-pin, Type A, To DIN EN 175301-803	24 V DC	123060	MSN1G-24DC-OD

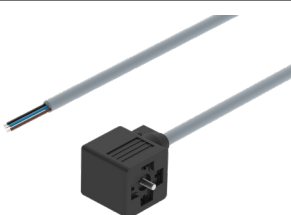
Accessories

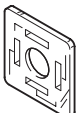
Plug socket						
	Electrical connection 1, connection technology	Electrical connection 2, connection technology	Operational voltage range DC	Nominal cross section conductor	Part no.	Type
	Type A to EN 175301-803	Standard	0 ... 300 V	1.5 mm ²	539709	MSSD-C-M16
					34583	MSSD-C
	Type B as per industry standard 11 mm		0 ... 250 V	0.75 mm ²	539710	MSSD-F-M16
				1.5 mm ²	34431	MSSD-F
	Type A to EN 175301-803		0 ... 24 V		550067	MSSD-N

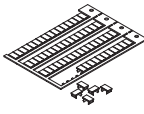
Connecting cable, cable sheath material PVC					
	Series	Nominal operating voltage DC	Cable length	Part no.	Type
	Connecting cable for valves, socket type A, EN 175301-803	24 V	2.5 m	30932	KMC-1-230AC-2,5
	Connecting cable for valves, socket type B to industry standard 11 mm			30936	KMF-1-230AC-2.5
	Connecting cable for valves, socket type A, EN 175301-803		5 m	30934	KMC-1-230AC-5
	Connecting cable for valves, socket type B to industry standard 11 mm			30938	KMF-1-230AC-5
	Connecting cable for valves, socket type B to industry standard 11 mm		2.5 m	30935	KMF-1-24DC-2.5-LED
	Connecting cable for valves, socket type A, EN 175301-803			30931	KMC-1-24DC-2,5-LED
	Connecting cable for valves, socket type A, EN 175301-803		5 m	30933	KMC-1-24DC-5-LED
	Connecting cable for valves, socket type B to industry standard 11 mm			30937	KMF-1-24DC-5-LED
	Connecting cable for valves, socket type A, EN 175301-803		10 m	193459	KMC-1-24-10-LED
	Connecting cable for valves, socket type B to industry standard 11 mm			193458	KMF-1-24-10-LED

Connecting cable, cable sheath material TPE-U (PUR)					
	Electrical connection 1, connector system	Nominal operating voltage DC	Cable length	Part no.	Type
	Connection pattern type A based on EN 175301-803	24 V	0.3 m	3679771	NEBV-A1W3F-P-K-0.3-N-M12W3
			0.6 m	3679776	NEBV-A1W3F-P-K-0.6-N-LE3
				3679772	NEBV-A1W3F-P-K-0.6-N-M12W3
		110 V	0.3 m	3579461	NEBV-A1W3-K-0.3-N-M12W3
			0.6 m	3579462	NEBV-A1W3-K-0.6-N-M12W3
		230 V		3579466	NEBV-A1W3-K-0.6-N-LE3
	Plug pattern type B to industry standard, 11 mm	24 V	0.3 m	3679773	NEBV-B2W3F-P-K-0.3-N-M12W3
			0.6 m	3679774	NEBV-B2W3F-P-K-0.6-N-M12W3
				3679778	NEBV-B2W3F-P-K-0.6-N-LE3
		110 V	0.3 m	3579463	NEBV-B2W3-K-0.3-N-M12W3

Accessories

Connecting cable, cable sheath material TPE-U (PUR)					
	Electrical connection 1, connector system	Nominal operating voltage DC	Cable length	Part no.	Type
	Plug pattern type B to industry standard, 11 mm	110 V	0.6 m	3579464	NEBV-B2W3-K-0.6-N-M12W3
		230 V		3579468	NEBV-B2W3-K-0.6-N-LE3

Illuminating seal					
	Electrical connection	Nominal operating voltage AC	Operational voltage range DC	Part no.	Type
	Type A, To DIN EN 175301-803, Square design MSC		12 ... 24 V	19145	MC-LD-12-24DC
		230 V		19146	MC-LD-230AC
	Type B, Square design MSF		12 ... 24 V	19143	MF-LD-12-24DC
		230 V		19144	MF-LD-230AC

Inscription labels			
	Short type code	Part no.	Type
	KMC/F/V	33362	KMC/F/V-BZ-35X