

Solenoid coils

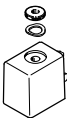
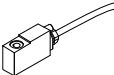
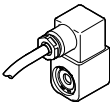
FESTO



Solenoid coils

Product range overview

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Version	Type	For valve series										→ Page/ Internet
		MFH	MOFH	JMFH	JMFDH	NVF3	MUFH	VOFD	VOFC	VSNC	VUVS	
F solenoid coil												
	MSF	■	■	■	■	■	■	–	–	–	–	5
	VACF	–	–	–	–	–	–	–	–	■	■	13
												12
												17
F solenoid coil for explosive atmospheres (→ certification)												
	MSF...-EX	■	■	■	■	■	■	–	–	–	–	9
	VACF	–	–	–	–	■	–	–	–	–	–	19
N solenoid coil												
	VACN-N	–	–	–	–	–	–	–	–	■	–	21
N solenoid coil for explosive atmospheres (→ certification)												
	VACN-N	–	–	–	–	–	–	–	–	■	–	24
												26
												28
												30
C solenoid coil												
	VACC-S13	–	–	–	–	–	–	■	■	–	–	32
	VACC-S18	–	–	–	–	–	–	■	–	–	–	39

-  - Note

ATEX certification is only effective in combination with other ATEX-certified components.

→ www.festo.com/en/ex

Solenoid coils

Product range overview

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Version	Type	For valve series						➔ Page/ Internet
		MN1H	JMN1H	JMN1DH	VZWM-L	VUVS	VZWE	
N1 solenoid coil								
	MSN1	■	■	■	–	–	–	56
S solenoid coil								
	VACS	–	–	–	–	■	–	59
H solenoid coil								
	MH-2	–	–	–	■	–	–	62
H1 solenoid coil								
	VACN-H1	–	–	–	–	–	■	65
D solenoid coil								
	MD-2	–	–	–	■	–	–	68

-  - Note

ATEX certification is only effective in combination with other ATEX-certified components.

→ www.festo.com/en/ex

Solenoid coils

Selection aid



Solenoid valves and corresponding solenoid coils									
Valve series	Valve type	Solenoid coil							
		C	D	F	H	H1	N	N1	S
Standard valves to ISO 5599-1	MN1H, JMN1H, JMN1DH	–	–	–	–	–	–	■	–
	MFH, JMFH, JMFHDH	–	–	■	–	–	–	–	–
	MDH, JMDH	–	■	–	–	–	–	–	–
Standard NAMUR valves	NVF3	–	–	■	–	–	–	–	–
	MN1H	–	–	–	–	–	–	■	–
Solenoid valves for process automation	VOFC	■	–	–	–	–	–	–	–
	VOFD	■	–	–	–	–	–	–	–
	VSNC	–	–	■	–	–	■	–	–
Tiger 2000	MFH, JMFH	–	–	■	–	–	–	–	–
Tiger Classic	MFH, MOFH, JMFH, JMFHDH	–	–	■	–	–	–	–	–
Directly actuated solenoid valves	MDH, MODH	–	■	–	–	–	–	–	–
VS series	VUVS	–	–	■	–	–	–	–	■
M5 compact system	MUFH	–	–	■	–	–	–	–	–
Process directional control valves	VZWM-L	–	■	–	■	–	–	–	–
	VZWE	–	–	–	–	■	–	–	–

Solenoid coils MSF

Type codes

		MSFG	–	12	–		–		–	
Type										
MSFG	F solenoid coil, for direct current									
MSFW	F solenoid coil, for alternating current									
Operating voltage										
12	12 V DC									
12DC	12 V DC									
42DC	42 V DC									
24/42	24 V DC/42 V AC									
24	24 V AC									
24AC	24 V AC									
48AC	48 V AC									
110	110 V AC									
110AC	110 V AC									
230	230 V AC									
230AC	230 V AC									
240AC	240 V AC									
Frequency										
50/60	50 Hz and 60 Hz									
–	No alternating voltage									
Electrical connection										
DS	Plug connector to EN 175301, type A									
–	Plug connector to industry standard, type B									
Scope of delivery										
OD	Without plug socket									
–	With plug socket									

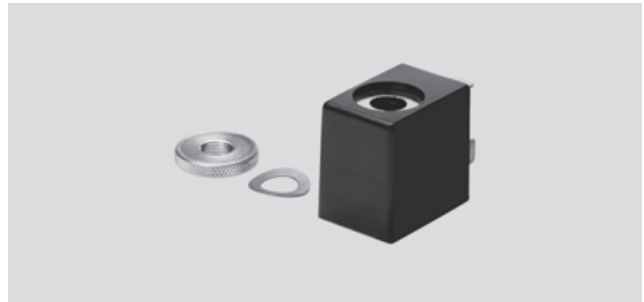
Solenoid coils MSF

Technical data

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-  Voltage
12 ... 42 V DC
24 ... 240 V AC
-  Temperature range
-5 ... +40 °C

- In accordance with VDE regulation 0580, insulation class F
- Can be replaced without interrupting the pneumatic circuit
- Low power consumption and temperature rise



General technical data		
Type of mounting	Via knurled nut	
Mounting position	Any (can be rotated 360° on the armature tube)	
Max. tightening torque of plug socket	[Nm]	0.4
Product weight	[g]	55

Materials	
Solenoid coil	Duroplast, copper, steel
Note on materials	RoHS compliant

Electrical data		
Electrical connection	3-pin	
	Plug connector to industry standard, type B	Plug connector to EN 175301, type A
Min. pickup time	[ms]	10
Permissible voltage fluctuations	[%]	-10 / +10
Duty cycle	[%]	100
Degree of protection to EN 60529	IP65 with plug socket	

Characteristic coil data									
Operating voltage	12 V DC	24 V DC	42 V DC	24 V AC	42 V AC	48 V AC	110 V AC	230 V AC	240 V AC
Power	[W]	4.1	4.5	5.5	–	–	–	–	–
Pick-up power, 50 Hz	[VA]	–	–	–	9	9	9	9	9
Holding power, 50 Hz	[VA]	–	–	–	7	7	7	7	7
Power factor cos(phi)		–	–	–	0.7	0.7	0.7	0.7	0.7
Frequency	[Hz]	–	–	–	50/60	50/60	50/60	50/60	50/60
Permissible frequency fluctuations	[%]	–	–	–	-5 / +5	-5 / +5	-5 / +5	-5 / +5	-5 / +5

Operating and environmental conditions									
Operating voltage	12 V DC	24 V DC	42 V DC	24 V AC	42 V AC	48 V AC	110 V AC	230 V AC	240 V AC
Ambient temperature	[°C]	-5 ... +40					-5 ... +40		
CE marking (see declaration of conformity) ²⁾		–					To EU Low Voltage Directive ¹⁾		

1) For information about the applicability of the component see the manufacturer's EC declaration of conformity at: www.festo.com/sp → User documentation.
If the component is subject to restrictions on usage in residential, office or commercial environments or small businesses, further measures to reduce the emitted interference may be necessary.

2) Additional information www.festo.com/sp → Certificates.

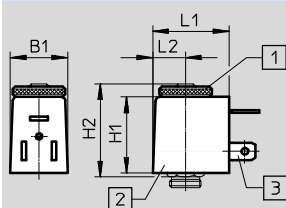
Solenoid coils MSF

Technical data

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Dimensions

Download CAD data → www.festo.com



- 1 Retaining nut
- 2 Solenoid coil
(can be rotated 360° on the armature tube)
- 3 Plug pins

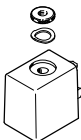
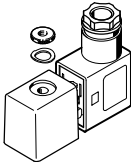
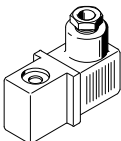


Note

Can only be used on aluminium valves with valve body dimensions $\geq 26 \times 16 \times 14$ mm

Type	B1	H1	H2	L1	L2
MSFG-...	22	29	33.8	29.5	12.5
MSFW-...					

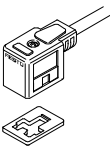
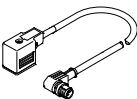
Ordering data

Description		Operating voltage	Part No.	Type
Solenoid coil, plug connector to industry standard, type B				
	Without plug socket	12 V DC	34410	MSFG-12DC-OD
		24 V DC, 42 V AC	34411	MSFG-24/42-50/60-OD
		42 V DC	34413	MSFG-42DC-OD
		24 V AC	34415	MSFW-24AC-OD
		48 V AC	34418	MSFW-48AC-OD
		110 V AC	34420	MSFW-110AC-OD
		230 V AC	34422	MSFW-230AC-OD
		240 V AC	34424	MSFW-240AC-OD
	With plug socket	12 V DC	4526	MSFG-12
		24 V DC, 42 V AC	4527	MSFG-24/42-50/60
		24 V AC	4534	MSFW-24-50/60
		110 V AC	6720	MSFW-110-50/60
		230 V AC	4540	MSFW-230-50/60
Solenoid coil, plug connector to EN 175301, type A				
	Without plug socket	24 V DC, 42 V AC	34412	MSFG-24/42-50/60-DS-OD
		230 V AC	175118	MSFW-230-50/60-DS-OD
	With plug socket, plug connector can be repositioned by 180°	24 V DC, 42 V AC	13264	MSFG-24/42-50/60-DS
		110 V AC	13265	MSFW-110-50/60-DS
		230 V AC	13266	MSFW-230-50/60-DS
	Certification: Germanischer Lloyd			

Solenoid coils MSF

Technical data

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Ordering data					
	Electrical connection	Description		Part No.	Type
Plug socket					
	To industry standard, type B	Cable connection using clamping screws	Cable fitting Pg9	34431	MSSD-F
			Cable fitting M16	539710	MSSD-F-M16
		Cable connection using insulation displacement technology	–	192746	MSSD-F-S-M16
	To EN 175301, type A	Cable connection using clamping screws	Cable fitting Pg9	34583	MSSD-C
			Cable fitting M16	539709	MSSD-C-M16
		–	Cable fitting Pg11	177617	MSSD-C-TY-24DC
Connecting cable					
	To industry standard, type B	Operating voltage 24 V DC, signal status display with LED	Cable length 0.6 m	3679778	NEBV-B2W3F-P-K-Q.6-N-LE3
			Cable length 2.5 m	30935	KMF-1-24DC-2,5-LED
			Cable length 5 m	30937	KMF-1-24DC-5-LED
			Cable length 10 m	193458	KMF-1-24DC-10-LED
		Operating voltage up to 240 V	Cable length 0.6 m	3579468	NEBV-B2W3-K-Q.6-N-LE3
			Cable length 2.5 m	30936	KMF-1-230AC-2,5
			Cable length 5 m	30938	KMF-1-230AC-5
			To EN 175301, type A	Operating voltage 24 V DC, signal status display with LED	Cable length 0.6 m
	Cable length 2.5 m	30931			KMC-1-24DC-2,5-LED
	Cable length 5 m	30933			KMC-1-24DC-5-LED
	Cable length 10 m	193459			KMC-1-24-10-LED
	Operating voltage up to 240 V	Cable length 0.6 m		3579466	NEBV-A1W3-K-Q.6-N-LE3
		Cable length 2.5 m		30932	KMC-1-230AC-2,5
		• Electrical connection 1, to industry standard, type B • Electrical connection 2, M12x1, A-coded	Operating voltage 24 V DC, signal status display with LED	Cable length 0.3 m	3679773
Cable length 0.6 m				3679774	NEBV-B2W3F-P-K-Q.6-N-M12W3
Operating voltage up to 240 V			Cable length 0.3 m	3579463	NEBV-B2W3-K-Q.3-N-M12W3
			Cable length 0.6 m	3579464	NEBV-B2W3-K-Q.6-N-M12W3
• Electrical connection 1, to EN 175301, type A • Electrical connection 2, M12x1, A-coded		Operating voltage 24 V DC, signal status display with LED	Cable length 0.3 m	3679771	NEBV-A1W3F-P-K-Q.3-N-M12W3
			Cable length 0.6 m	3679772	NEBV-A1W3F-P-K-Q.6-N-M12W3
		Operating voltage up to 240 V	Cable length 0.3 m	3579461	NEBV-A1W3-K-Q.3-N-M12W3
			Cable length 0.6 m	3579462	NEBV-A1W3-K-Q.6-N-M12W3
Illuminating seal					
	To industry standard, type B	Operating voltage 12 ... 24 V DC	19143	MF-LD-12-24DC	
		Operating voltage 230 V DC/V AC	19144	MF-LD-230AC	
	To EN 175301, type A	Operating voltage 12 ... 24 V DC	19145	MC-LD-12-24DC	
		Operating voltage 230 V DC/V AC	19146	MC-LD-230AC	
Inscription label					
	–	Scope of delivery: 35 labels in frames		33362	KMC/F/V-BZ-35X

Solenoid coils MSF...-EX

Type codes

		MSFG	—	24DC	—	EX
Type						
MSFG	F solenoid coil, for direct current					
MSFW	F solenoid coil, for alternating current					
Operating voltage						
24	24 V DC					
24-50/60	24 V AC, 50/60 Hz					
110-50/60	110 V AC, 50/60 Hz					
230-50/60	230 V AC, 50/60 Hz					
Explosion prevention and protection						
EX	Explosion-proof to EN 50 028					

Solenoid coils MSF...-EX

Technical data

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- In accordance with ATEX directive
- In accordance with VDE regulation 0580, insulation class F
- Plug connection
- Can be replaced without interrupting the pneumatic circuit
- Manifold assembly permissible (minimum distance from coil to coil 5 mm)



General technical data	
Type of mounting	Via knurled nut
Mounting position	Any (can be rotated 360° on the armature tube)
Product weight [g]	55

Materials	
Solenoid coil	Steel, copper, duroplast
Winding	Copper
Note on materials	RoHS compliant

Electrical data	
Electrical connection	3-pin Plug pins with connection pattern to Festo standard for MSSD-F
Max. tightening torque of plug socket [Nm]	0.4
Min. pickup time [ms]	10
Permissible voltage fluctuations [%]	-10 / +10
Duty cycle [%]	100
Degree of protection to EN 60529	IP65 with plug socket

Characteristic coil data					
		Operating voltage			
		24 V DC	24 V AC	110 V AC	230 V AC
Power	[W]	4.5	–	–	–
Pick-up power, 50 Hz	[VA]	–	9	9	9
Holding power, 50 Hz	[VA]	–	7	7	7
Power factor cos(phi)		–	0.7	0.7	0.7
Frequency	[Hz]	–	50/60	50/60	50/60
Permissible frequency fluctuations	[%]	–	–5 / +5	–5 / +5	–5 / +5

Operating and environmental conditions				
	Operating voltage			
	24 V DC	24 V AC	110 V AC	230 V AC
Ambient temperature [°C]	-5 ... +40		-5 ... +40	
CE marking (see declaration of conformity) ²⁾	—		To EU Low Voltage Directive ¹⁾	

1) For information about the applicability of the component see the manufacturer's EC declaration of conformity at: www.festo.com/sp → User documentation.

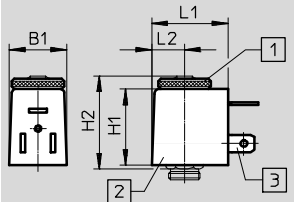
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2) Additional information www.festo.com/sp → Certificates.

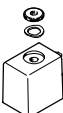
Solenoid coils MSF...-EX

Technical data

ATEX	
ATEX category for gas	II 3G
Type of ignition protection for gas	Ex nA IIC T4X Gc
ATEX category for dust	II 3D
Type of ignition protection for dust	Ex tc IIIC T130 °C X Dc IP65
Explosion ambient temperature [°C]	$-5 \leq T_a \leq +40$
CE marking (see declaration of conformity)	To EU Explosion Protection Directive (ATEX)
Explosion protection certification outside the EU	EPL Gc (CN) EPL Dc (CN)

Dimensions		Download CAD data → www.festo.com
 1 Retaining nut (tightening torque 0.4 Nm) 2 Solenoid coil 3 Plug pins for plug sockets MSSD-F		Note Can only be used on aluminium valves with valve body dimensions $\geq 26 \times 16 \times 14$ mm

Type	B1	H1	H2	L1	L2
MSFG-...-EX	22	29	33.8	29.5	12.5
MSFW-...-EX					

Ordering data				
	Description		Part No.	Type
Solenoid coil				
	Explosion-proof, without plug socket	24 V DC	536931	MSFG-24-EX
		24 V AC	536932	MSFW-24-50/60-EX
		110 V AC	536933	MSFW-110-50/60-EX
		230 V AC	536934	MSFW-230-50/60-EX
Plug socket				
	For solenoid coils, cable connection with clamping screws		34431	MSSD-F

Solenoid coils VACF

Type codes

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		VACF	–	B	–	B2	–	1A	–		–		–	
--	--	------	---	---	---	----	---	----	---	--	---	--	---	--

Type	
VACF	Solenoid coil, F series

Solenoid coil type	
A	Width 30 mm, for 8 mm armature tube
B	Width 22 mm, for 8 mm armature tube

Electrical connection	
A1	Connection pattern type A, to EN 175301
B2	Connection pattern type B, to industry standard
C1	Connection pattern type C, to EN 175301
K1	Cable

Operating voltage	
5	12 V DC
1	24 V DC
7	48 V DC
1A	24 V AC, 50/60 Hz
7A	48 V AC, 50/60 Hz
16B	110/120 V AC, 50/60 Hz
3A	230 V AC, 50/60 Hz
3W	230/240 V AC, 50/60 Hz

Cable length	
–	None
1	12 V DC
5	24 V DC
20	24 V DC

ATEX certification EU	
–	None
EX4	ATEX category II 2GD

Type of ignition protection	
–	None
ME	Moulded encapsulation, enhanced safety

Solenoid coils VACF-A-A1

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Technical data

-  Voltage
12 ... 48 V DC
24 ... 240 V AC
-  Temperature range
-20 ... +50 °C
- In accordance with VDE regulation 0580, insulation class H
- Can be replaced without interrupting the pneumatic circuit



General technical data	
Type of mounting	Via knurled nut
Mounting position	Any (can be rotated in increments of 45° on the armature tube)

Materials	
Housing seal set	Aluminium, HNBR
Housing	PA, steel
Winding	Copper
Note on materials	RoHS compliant

Electrical data	
Electrical connection	Plug pins, 3-pin, with connection pattern to EN 175301-803, type A
Permissible voltage fluctuations [%]	-10 / +10
Duty cycle [%]	100
Degree of protection to EN 60529	IP65 with plug socket
Insulation class	H

Characteristic coil data							
Operating voltage	12 V DC	24 V DC	48 V DC	24 V AC	48 V AC	110/120 V AC	230/240 V AC
Power [W]	2.8	2.6	2.8	–	–	–	–
Pick-up power, 50 Hz [VA]	–	–	–	2.5	2.5	2.7	3.9
Holding power, 50 Hz [VA]	–	–	–	1.7	1.7	1.9	2.8
Frequency [Hz]	–	–	–	50/60	50/60	50/60	50/60

Operating and environmental conditions							
Operating voltage	12 V DC	24 V DC	48 V DC	24 V AC	48 V AC	110/120 V AC	230/240 V AC
Ambient temperature [°C]	-20 ... +50					-20 ... +50	
Corrosion resistance class CRC ¹⁾	2					2	
CE marking (see declaration of conformity) ²⁾	–					To EU Low Voltage Directive	
Certification	c UL us - Recognized (OL)		–	c UL us - Re-cognized (OL)	–	–	

- 1) Corrosion resistance class CRC 2 to Festo standard FN 940070
Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.
- 2) Additional information www.festo.com/sp → Certificates.

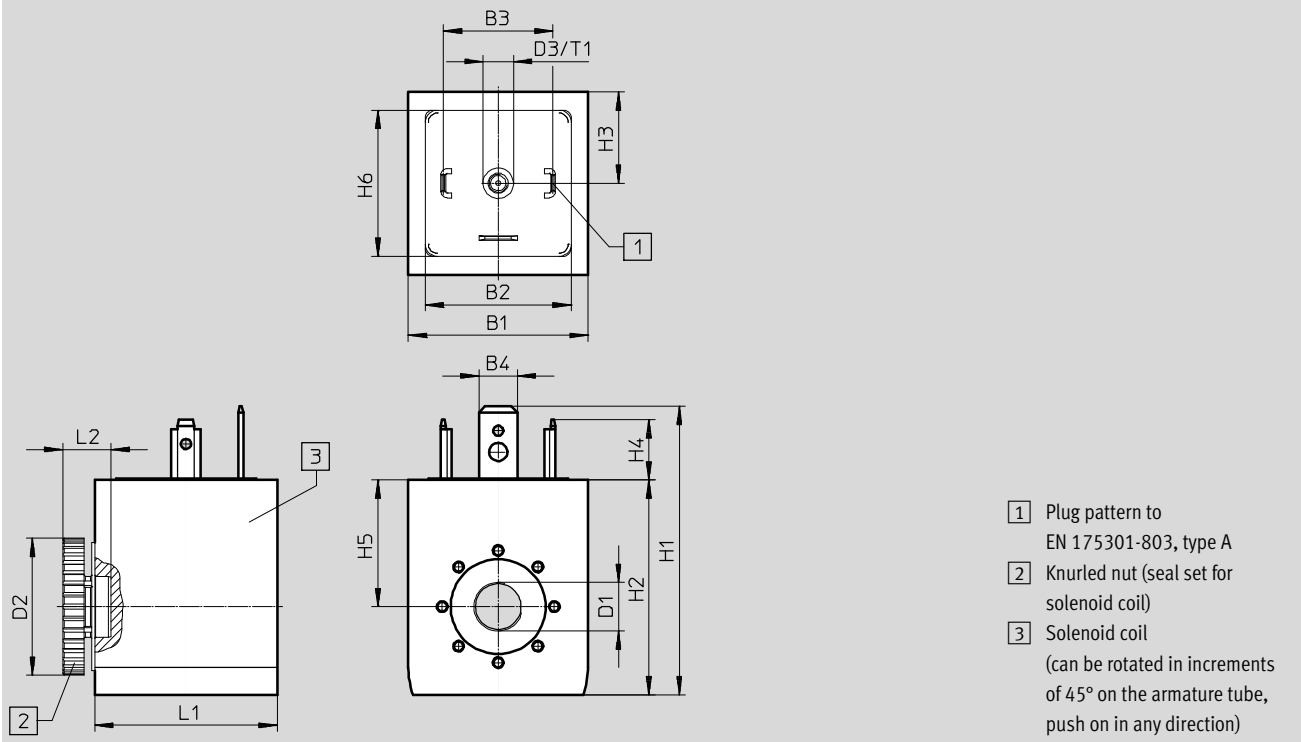
Solenoid coils VACF-A-A1

Technical data

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Dimensions

Download CAD data → www.festo.com



Type	B1	B2	B3	B4	D1	D2	D3	H1	H2	H3	H4	H5	H6	L1	L2	T1
VACF-A-A1-...	29.5	24	18	6.3	8.2	22.5	M3	47.4	35.3	15	9.9	20.8	24	30	7.9	5

Ordering data

	Description		Part No.	Type
Solenoid coil				
	Without plug socket, connection pattern to EN 175301-803, type A	12 V DC	8030821	VACF-A-A1-5
		24 V DC	8030822	VACF-A-A1-1
		48 V DC	8030823	VACF-A-A1-7
		24 V AC	8030824	VACF-A-A1-1A
		48 V AC	8030825	VACF-A-A1-7A
		110/120 V AC	8030826	VACF-A-A1-16B
		230/240 V AC	8030828	VACF-A-A1-3W
Seal set				
	To achieve degree of protection IP67	For solenoid coil VACF	8034611	VAMC-B10-A-B-S8

Solenoid coils VACF-B-B2

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Technical data

-  Voltage
12 ... 48 V DC
24 ... 240 V AC
-  Temperature range
-10 ... +50 °C
- In accordance with VDE regulation 0580, insulation class H
- Can be replaced without interrupting the pneumatic circuit



General technical data	
Type of mounting	Via knurled nut
Mounting position	Any (can be rotated in increments of 45° on the armature tube)

Materials	
Housing seal set	Aluminium, HNBR
Housing	PA, steel
Winding	Copper
Note on materials	RoHS compliant

Electrical data	
Electrical connection	Plug pins, 3-pin, with connection pattern to industry standard, type B
Permissible voltage fluctuations [%]	-10 / +10
Duty cycle [%]	100
Degree of protection to EN 60529	IP65 with plug socket
Insulation class	H

Characteristic coil data							
Operating voltage	12 V DC	24 V DC	48 V DC	24 V AC	48 V AC	110/120 V AC	230/240 V AC
Power [W]	3.4	3.3	3.4	–	–	–	–
Pick-up power, 50 Hz [VA]	–	–	–	3.9	3.9	4.4	5.8
Holding power, 50 Hz [VA]	–	–	–	2.6	2.7	3.3	4.6
Frequency [Hz]	–	–	–	50/60	50/60	50/60	50/60
Surge resistance [kV]	–	–	–	–	–	2.5	4

Operating and environmental conditions							
Operating voltage	12 V DC	24 V DC	48 V DC	24 V AC	48 V AC	110/120 V AC	230/240 V AC
Ambient temperature [°C]	-20 ... +50					-20 ... +50	
Corrosion resistance class CRC ¹⁾	2					2	
Degree of contamination	–					3	
CE marking (see declaration of conformity) ³⁾	–					To EU Low Voltage Directive ²⁾	
Certification	c UL us - Recognized (OL)		–	c UL us - Re-cognized (OL)	–	–	

- 1) Corrosion resistance class CRC 2 to Festo standard FN 940070
Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.
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- 3) Additional information www.festo.com/sp → Certificates.

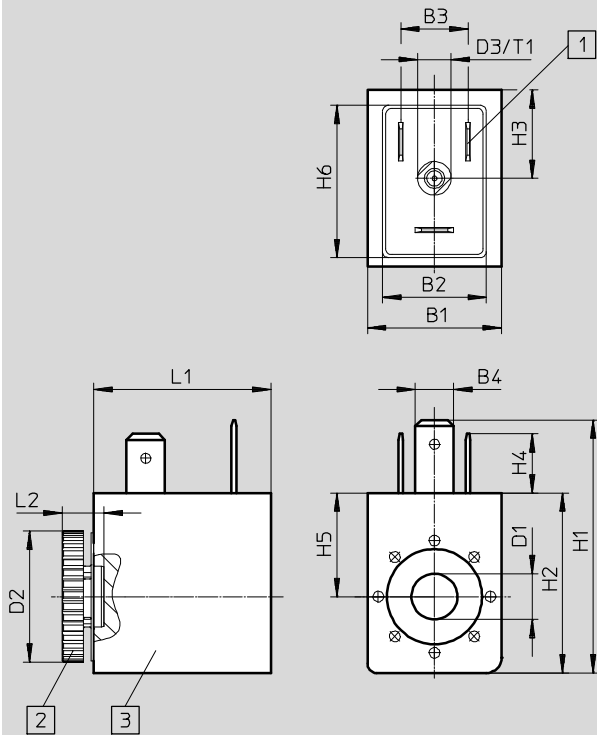
Solenoid coils VACF-B-B2

Technical data

FESTO

Dimensions

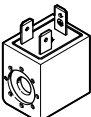
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- 1 Plug pattern to industry standard, type B
- 2 Knurled nut (seal set for solenoid coil)
- 3 Solenoid coil
(can be rotated in increments of 45° on the armature tube, push on in any direction)

Type	B1	B2	B3	B4	D1	D2	D3	H1	H2	H3	H4	H5	H6	L1	L2	T1
VACF-B-B2-...	22	17	11	6.3	8.2	21.5	M3	41.5	29.5	14.5	9.7	17	25	29	6.9	5

Ordering data

Ordering data		Description	Part No.	Type
Solenoid coil				
	Without plug socket, connection pattern to industry standard, type B	12 V DC	8030801	VACF-B-B2-5
		24 V DC	8030802	VACF-B-B2-1
		48 V DC	8030803	VACF-B-B2-7
		24 V AC	8030804	VACF-B-B2-1A
		48 V AC	8030805	VACF-B-B2-7A
		110/120 V AC	8030806	VACF-B-B2-16B
		230/240 V AC	8030808	VACF-B-B2-3W
Seal set				
	To achieve degree of protection IP67	8034609	VAMC-B10-B-B-S8	

Solenoid coils VACF-B-C1

FESTO

Technical data

-  Voltage
12 ... 48 V DC
24 ... 240 V AC
-  Temperature range
-10 ... +50 °C
- In accordance with VDE regulation 0580, insulation class H
- Can be replaced without interrupting the pneumatic circuit



General technical data	
Type of mounting	Via knurled nut
Mounting position	Any (can be rotated in increments of 45° on the armature tube)

Materials	
Housing seal set	Aluminium, HNBR
Housing	PA, steel
Winding	Copper
Note on materials	RoHS compliant

Electrical data	
Electrical connection	Plug pins, 3-pin, with connection pattern to EN 175301-803, type C
Permissible voltage fluctuations [%]	-10 / +10
Duty cycle [%]	100
Degree of protection to EN 60529	IP65 with plug socket
Insulation class	H

Characteristic coil data							
Operating voltage	12 V DC	24 V DC	48 V DC	24 V AC	48 V AC	110/120 V AC	230/240 V AC
Power [W]	3.4	3.3	3.4	–	–	–	–
Pick-up power, 50 Hz [VA]	–	–	–	3.9	3.9	4.4	5.8
Holding power, 50 Hz [VA]	–	–	–	2.6	2.7	3.3	4.6
Frequency [Hz]	–	–	–	50/60	50/60	50/60	50/60
Surge resistance [kV]	–	–	–	–	–	2.5	4

Operating and environmental conditions							
Operating voltage	12 V DC	24 V DC	48 V DC	24 V AC	48 V AC	110/120 V AC	230/240 V AC
Ambient temperature [°C]	-20 ... +50					-20 ... +50	
Corrosion resistance class CRC ¹⁾	2					2	
Degree of contamination	–					3	
CE marking (see declaration of conformity) ³⁾	–					To EU Low Voltage Directive ²⁾	
Certification	c UL us - Recognized (OL)		–	c UL us - Recognized (OL)	–	–	

- 1) Corrosion resistance class CRC 2 to Festo standard FN 940070
Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.
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- 3) Additional information www.festo.com/sp → Certificates.

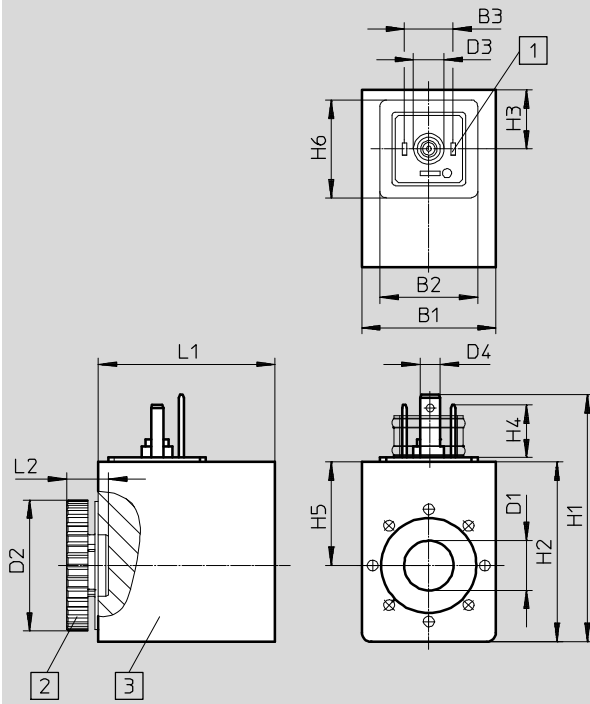
Solenoid coils VACF-B-C1

Technical data

FESTO

Dimensions

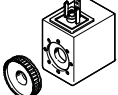
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- 1 Plug pattern to EN 175301-803, type C
- 2 Knurled nut (seal set for solenoid coil)
- 3 Solenoid coil (can be rotated in increments of 45° on the armature tube, push on in any direction)

Type	B1	B2	B3	D1	D2	D3	D4	H1	H2	H3	H4	H5	H6	L1	L2
VACF-B-C1-...	22	16	8	8.2	21.5	27	3.3	40.5	29.5	9.7	8.6	17	16	29	6.9

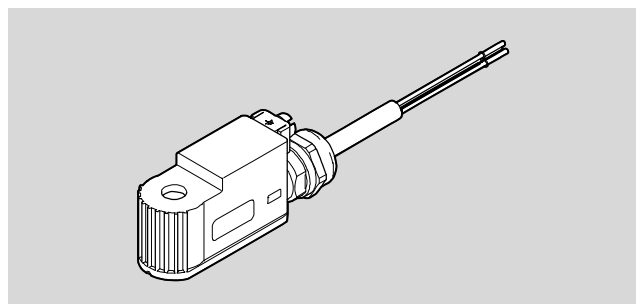
Ordering data

Description		Part No.	Type
Solenoid coil			
	Without plug socket, connection pattern to EN 175301-803, type C	12 V DC	8030810 VACF-B-C1-5
		24 V DC	8030811 VACF-B-C1-1
		48 V DC	8030812 VACF-B-C1-7
		24 V AC	8030813 VACF-B-C1-1A
		48 V AC	8030814 VACF-B-C1-7A
		110/120 V AC	8030815 VACF-B-C1-16B
		230/240 V AC	8030817 VACF-B-C1-3W
Seal set			
	To achieve degree of protection IP67	For solenoid coil VACF	8034609 VAMC-B10-B-B-S8

Solenoid coils VACF-B-K1

Technical data

-  Voltage
24 V DC
24 ... 230 V AC
-  Temperature range
-30 ... +40 °C
- In accordance with ATEX directive
- Can be replaced without interrupting the pneumatic circuit



General technical data	
Type of mounting	Via knurled nut
Mounting position	Any (can be rotated in increments of 45° on the armature tube)
Product weight [g]	170

Materials	
Solenoid coil	Aluminium, epoxy resin, copper, steel
Winding	Copper
Note on materials	RoHS compliant

Electrical data	
Electrical connection	Cable with open end, 3-wire
Nominal conductor cross section [mm²]	0.75
Permissible voltage fluctuations [%]	-10 / +10
Permissible frequency fluctuations [%]	-5 / +5
Duty cycle [%]	100
Degree of protection to EN 60529	IP65

Characteristic coil data					
Operating voltage		24 V DC	24 V AC	110 V AC	230 V AC
Power	[W]	4.36	–	–	–
	[VA]	–	3.85	4.18	5
Frequency	[Hz]	–	50/60	50/60	50/60
Min. pickup time	[ms]	10	10	10	10

Operating and environmental conditions	
Ambient temperature [°C]	-30 ... +40
CE marking (see declaration of conformity) ¹⁾	To EU Explosion Protection Directive (ATEX)

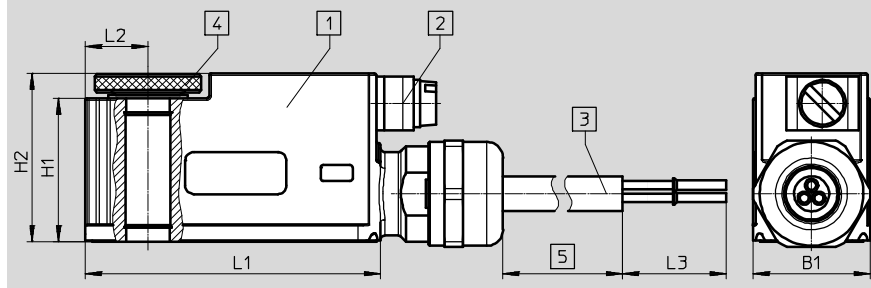
1) Additional information www.festo.com/sp → Certificates.

Solenoid coils VACF-B-K1

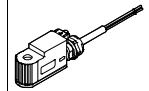
Technical data

FESTO

ATEX	
ATEX category for gas	II 2G
Type of ignition protection for gas	Ex mb IIC T5 Gb
ATEX category for dust	II 2D
Type of ignition protection for dust	Ex mb IIIC T95°C Db
Explosion ambient temperature [°C]	$-30 \leq T_a \leq +40$
Explosion protection certification outside the EU	EPL Db (IEC-EX)
	EPL Gb (IEC-EX)
Certificate issuing authority	IBExU 16 ATEX1146X
	IECEx IBE16.0024X

Dimensions		Download CAD data → www.festo.com
		1 Solenoid coil 2 Equipotential bonding terminal 3 Heat-resistant rubber tubing 4 Knurled nut 5 Length depending on order

Type	B1	H1	H2	L1	L2	L3
VACF-B-K1-...	22	27	31.7	55.5	11.8	50

Ordering data					
	Description	Operating voltage	Cable length	Part No.	Type
	Cable with open end, 3-wire	24 V DC	1 m	8059804	VACF-B-K1-1-1-EX4-M
			5 m	8059805	VACF-B-K1-1-5-EX4-M
			10 m	8059806	VACF-B-K1-1-10-EX4-M
			20 m	8059807	VACF-B-K1-1-20-EX4-M
		24 V AC	1 m	8059808	VACF-B-K1-1A-1-EX4-M
		110 V AC	1 m	8059811	VACF-B-K1-16B-1-EX4-M
			5 m	8059812	VACF-B-K1-16B-5-EX4-M
		230 V AC	1 m	8059809	VACF-B-K1-3A-1-EX4-M
			5 m	8059810	VACF-B-K1-3A-5-EX4-M

Solenoid coils VACN-N

Type codes

		VACN	–	N	–	K11	–	16B	–	0,5	–		–	U4	–	M
Type																
VACN	Solenoid coil, N series															
Solenoid coil type																
N	N solenoid coil, for 9 mm armature tube															
Electrical connection																
A1	Connection pattern type A, to EN 175301															
K1	With 3 m cable															
K11	With 0.6 m cable															
Operating voltage																
1	24 V DC															
3A	230 V AC, 50/60 Hz															
16B	120 V AC or 110 V AC															
Cable length																
–	3 m															
0,5	0.6 m															
ATEX certification EU																
–	Without certification															
EX2	ATEX category II 3D															
EX4	ATEX category II 2D															
Additional certifications																
–	Without certification															
U4	Explosion protection certification for USA															
Type of ignition protection																
–	None															
A	Intrinsically safe															
M	Encapsulation															
N	Non-sparking															

Solenoid coils VACN-N

Technical data

FESTO

-  Voltage
24 V DC
110, 230 V AC
-  Temperature range
-20 ... +60 °C
- Can be replaced without interrupting the pneumatic circuit



General technical data	
Type of mounting	Via knurled nut
Mounting position	Any (can be rotated in increments of 45° on the armature tube)
Product weight [g]	95

Materials	
Housing	Steel, polymer
Winding	Copper
Pin contacts	Brass
Note on materials	RoHS compliant

Electrical data	
Electrical connection	Plug pins, 3-pin, with connection pattern to EN 175301-803, type A
Permissible voltage fluctuations [%]	-10 / +10
Duty cycle [%]	100
Insulation class	F
Enamelled wire insulation class	F
Degree of protection to EN 60529	IP65 with plug socket

Characteristic coil data						
Nominal operating voltage [V]	24 DC	110 AC		230 AC		
Frequency [Hz]	–	50	60	50	60	
Power [W]	0.7	–	–	–	–	
Pick-up power [VA]	–	5.2	4.2	6.2	4.9	
Holding power [VA]	–	3.1	2.5	3.7	2.9	
Surge resistance [kV]	–	2.5		4		

Operating and environmental conditions			
Nominal operating voltage [V]	24 DC	110 AC	230 AC
Ambient temperature [°C]	-20 ... +60	-20 ... +60	
Corrosion resistance class CRC ¹⁾	2	2	
Degree of contamination	–	3	
CE marking (see declaration of conformity) ³⁾	–	To EU Low Voltage Directive ²⁾	

- 1) Corrosion resistance class CRC 2 to Festo standard FN 940070
Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.
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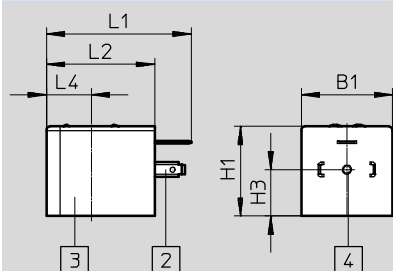
Solenoid coils VACN-N

Technical data

FESTO

Dimensions

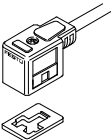
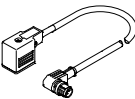
Download CAD data → www.festo.com



- 2 Plug pattern to
EN 175301-803, type A
- 3 Solenoid coil
- 4 Mounting screw M3

Type	B1	H1	H3	L1	L2	L4
VACN-N-A1-...	30	29.5	15.3	47.6	35.5	14.7

Ordering data

Ordering data		Description	Part No.	Type
Solenoid coil				
	Without plug socket, connection pattern to EN 175301-803, type A	24 V DC	8029144	VACN-N-A1-1
		110 V AC	8029134	VACN-N-A1-16B
		230 V AC	8029135	VACN-N-A1-3A
Plug socket				
	Operating voltage 230 V DC/V AC	Cable fitting Pg9	34583	MSSD-C
		Cable fitting M16	539709	MSSD-C-M16
	Operating voltage 24 V DC, signal status display with LED	Cable fitting Pg11	177617	MSSD-C-TY-24DC
Connecting cable				
	Operating voltage 24 V DC, signal status display with LED	Cable length 0.6 m	3679776	NEBV-A1W3F-P-K-Q.6-N-LE3
		Cable length 2.5 m	30931	KMC-1-24DC-2,5-LED
		Cable length 5 m	30933	KMC-1-24DC-5-LED
		Cable length 10 m	193459	KMC-1-24-10-LED
	Operating voltage 230 V DC/V AC	Cable length 0.6 m	3579466	NEBV-A1W3-K-Q.6-N-LE3
		Cable length 2.5 m	30932	KMC-1-230AC-2,5
		Cable length 5 m	30934	KMC-1-230AC-5
	Electrical connection 2, M12x1, A-coded Operating voltage 24 V DC, signal status display with LED	Cable length 0.3 m	3679771	NEBV-A1W3F-P-K-Q.3-N-M12W3
		Cable length 0.6 m	3679772	NEBV-A1W3F-P-K-Q.6-N-M12W3
	Electrical connection 2, M12x1, A-coded Operating voltage 230 V DC/V AC	Cable length 0.3 m	3579461	NEBV-A1W3-K-Q.3-N-M12W3
		Cable length 0.6 m	3579462	NEBV-A1W3-K-Q.6-N-M12W3
Illuminating seal				
	Operating voltage 24 V DC		19145	MC-LD-12-24DC
	Operating voltage 230 V DC/V AC		19146	MC-LD-230AC

Solenoid coils VACN-N-...-EX2-N

Technical data

FESTO



- Non-sparking solenoid coil
- Category "II 3G" and "II 3D"
- Type of ignition protection for gas "Ex nA"
- ATEX certification
- Can be replaced without interrupting the pneumatic circuit



General technical data	
Type of mounting	Via knurled nut
Mounting position	Any (can be rotated in increments of 45° on the armature tube)
Product weight [g]	95

Materials	
Housing	Steel, polymer
Winding	Copper
Pin contacts	Brass
Note on materials	RoHS compliant

Electrical data	
Electrical connection	Plug pins, 3-pin, with connection pattern to EN 175301-803, type A
Permissible voltage fluctuations [%]	-10 / +10
Duty cycle [%]	100
Insulation class	F
Enamelled wire insulation class	H
Degree of protection to EN 60529	IP65 with plug socket

Characteristic coil data						
Nominal operating voltage [V]	24 DC	110 AC			230 AC	
Frequency [Hz]	–	50	60	50	60	
Power [W]	2.1	–	–	–	–	–
Pick-up power [VA]	–	6.9	5.4	6.9	5.4	
Holding power [VA]	–	4.1	3.2	4.1	3.3	

Operating and environmental conditions	
Ambient temperature [°C]	–20 ... +60
Corrosion resistance class CRC ¹⁾	2
CE marking (see declaration of conformity) ²⁾	To EU Explosion Protection Directive (ATEX)

- 1) Corrosion resistance class CRC 2 to Festo standard FN 940070
Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.
- 2) Additional information www.festo.com/sp → Certificates.

Solenoid coils VACN-N-...-EX2-N

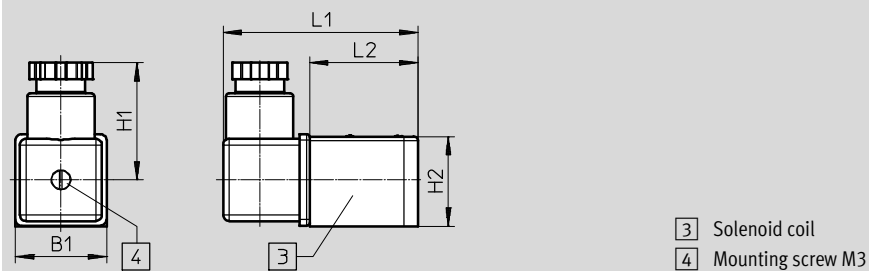
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Technical data

ATEX	
ATEX category for gas	II 3G
Type of ignition protection for gas	Ex nA IIC T5/T4 X Gc
ATEX category for dust	II 3D
Type of ignition protection for dust	Ex tc IIIC T95°C/T105°C X Dc
Explosion ambient temperature [°C]	-20 ≤ Ta ≤ +60

Dimensions

Download CAD data → www.festo.com



Type	B1	H1	H2	L1	L2
VACN-N-A1-...-EX2-N	30	38.5	29.5	64	35.5

Ordering data

	Description	Part No.	Type
	With plug socket included in delivery, connection pattern to EN 175301-803, type A	24 V DC	8029136 VACN-N-A1-1-EX2-N
		110 V AC	8029137 VACN-N-A1-16B-EX2-N
		230 V AC	8029138 VACN-N-A1-3A-EX2-N

Solenoid coils VACN-N-...-U4-M

Technical data

FESTO



- Encapsulated solenoid coil with insulating conduit connection
- Explosion protection certification "Class I", "Class II" and "Class III"
- FM certification
- Can be replaced without interrupting the pneumatic circuit



General technical data	
Type of mounting	Via knurled nut
Mounting position	Any (can be rotated in increments of 45° on the armature tube)
Product weight [g]	207

Materials	
Housing	Steel, polymer
Winding	Copper
Note on materials	Contains paint-wetting impairment substances
	RoHS compliant

Electrical data	
Electrical connection	Cable
Cable length [m]	0.61
Permissible voltage fluctuations [%]	-10 / +10
Duty cycle [%]	100
Insulation class	H
Enamelled wire insulation class	H
Degree of protection to EN 60529	IP65

Characteristic coil data				
Nominal operating voltage [V]	24 DC	110 AC	230 AC	
Frequency [Hz]	–	60	50	
Power [W]	4.6	–	–	
Pick-up power [VA]	–	10	11.5	
Holding power [VA]	–	6.8	8	

Operating and environmental conditions			
Nominal operating voltage	24 V DC	110 V AC	230 V AC
Ambient temperature [°C]	-20 ... +60	-20 ... +60	
Corrosion resistance class CRC ¹⁾	2	2	
CE marking (see declaration of conformity) ³⁾	–	To EU Low Voltage Directive ²⁾	

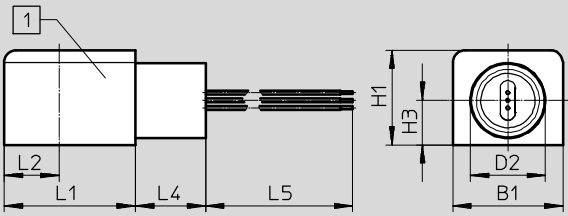
- 1) Corrosion resistance class CRC 2 to Festo standard FN 940070
Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.
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- 3) Additional information www.festo.com/sp → Certificates.

Solenoid coils VACN-N-...-U4-M

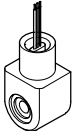
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Technical data

ATEX		
Type of ignition protection for gas	AEx m II T4	
	Ex m II T4	
Explosion ambient temperature [°C]	$-20 \leq T_a \leq +60$	
Explosion protection certification outside the EU	EPL Gb (US)	
	Class I, Div. 1 (US)	Class I, Div. 1 (CA)
	Class I, Div. 2 (US)	Class I, Div. 2 (CA)
	Class II, Div. 1 (US)	Class II, Div. 1 (CA)
	Class III, Div. 1 (US)	Class III, Div. 1 (CA)
Certificate issuing authority	CSA 265489	
	FM 3053936	

Dimensions		Download CAD data → www.festo.com
		1 Solenoid coil

Type	B1	D2	H1	H3	L1	L2	L4	L5
VACN-N-K11-...	36	24.6	31	14.5	43	18	23	610

Ordering data			
	Description	Part No.	Type
	Moulded-in cable	24 V DC	8029146 VACN-N-K11-1-0.5-U4-M
		110 V AC	8029145 VACN-N-K11-16B-0.5-U4-M
		230 V AC	8029140 VACN-N-K11-3A-0.5-U4-M

Solenoid coils VACN-N-...-EX4-M

Technical data

FESTO



- Category "II 2G" and "II 2D"
- Type of ignition protection for gas "Ex mb"
- ATEX certification
- Can be replaced without interrupting the pneumatic circuit



General technical data	
Type of mounting	Via knurled nut
Mounting position	Any (can be rotated in increments of 45° on the armature tube)
Product weight [g]	353

Materials	
Housing	Steel, polymer
Winding	Copper
Note on materials	RoHS compliant

Electrical data	
Electrical connection	Cable
Cable length [m]	3
Cable diameter [mm]	7
Permissible voltage fluctuations [%]	-10 / +10
Duty cycle [%]	100
Insulation class	F
Enamelled wire insulation class	H
Degree of protection to EN 60529	IP65 with plug socket

Characteristic coil data				
Nominal operating voltage [V]	24 DC	110 AC	230 AC	
Frequency [Hz]	–	50/60	50/60	
Power [W]	2.6	–	–	
[VA]	–	2.4	2.1	

Operating and environmental conditions	
Ambient temperature [°C]	-20 ... +50
Corrosion resistance class CRC ¹⁾	2
CE marking (see declaration of conformity) ²⁾	To EU Explosion Protection Directive (ATEX)

- 1) Corrosion resistance class CRC 2 to Festo standard FN 940070
Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.
- 2) Additional information www.festo.com/sp → Certificates.

Solenoid coils VACN-N-...-EX4-M

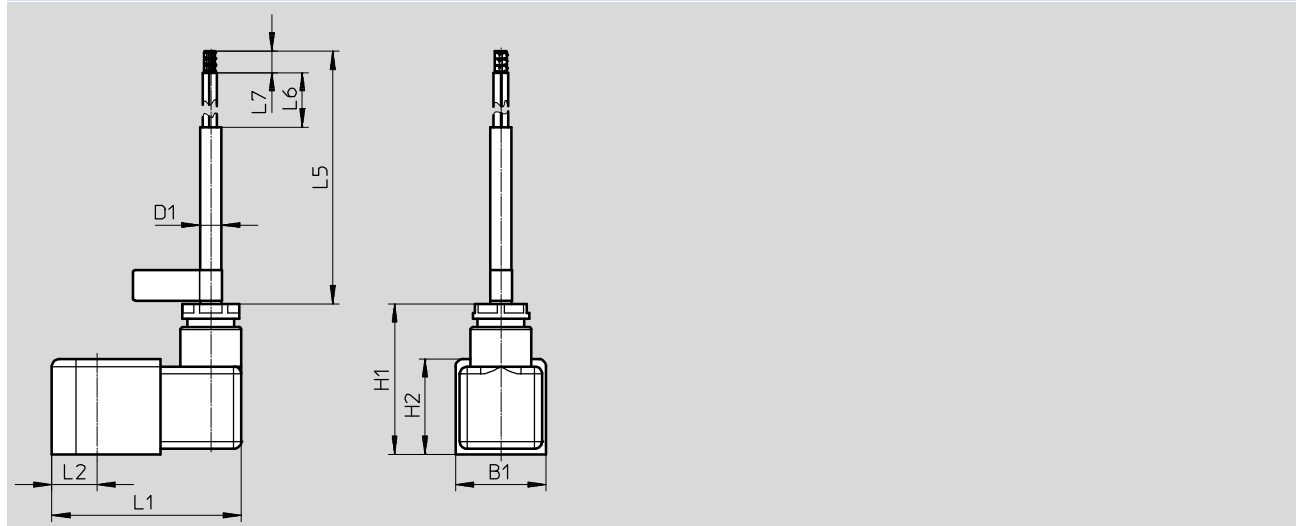
FESTO

Technical data

ATEX	
ATEX category for gas	II 2G
Type of ignition protection for gas	Ex mb IIC T6
ATEX category for dust	II 2D
Type of ignition protection for dust	Ex mb tb IIIC T80°C
Explosion ambient temperature [°C]	-20 ≤ Ta ≤ +50
Explosion protection certification outside the EU	EPL Db (BR), EPL Db (IEC-EX), EPL Gb (BR), EPL Gb (IEC-EX)
Certificate issuing authority	DNV 15.0189X
	IECEx PTB 15.0016X
	PTB 14 ATEX 2027 X

Dimensions

Download CAD data → www.festo.com



Type	B1	D1	H1	H2	L1	L2	L5	L6	L7
VACN-N-K1-...	29.7	7	49.3	31.3	67	14.8	3000	43	7

Ordering data

	Description	Part No.	Type
	With plug socket, with 3 m cable	24 V DC	8029143 VACN-N-K1-1-EX4-M
		110 V AC	8029142 VACN-N-K1-16B-EX4-M
		230 V AC	8029141 VACN-N-K1-3A-EX4-M

Solenoid coils VACN-N-...-EX4-A

Technical data

FESTO



- Intrinsically safe solenoid coil
- Category "II 2G" and "II 2D"
- Type of ignition protection for gas "Ex ia"
- ATEX certification
- Can be replaced without interrupting the pneumatic circuit



General technical data	
Type of mounting	Via knurled nut
Mounting position	Any (can be rotated in increments of 45° on the armature tube)
Product weight [g]	114

Materials	
Housing	Steel, polymer
Winding	Copper
Note on materials	RoHS compliant

Electrical data	
Electrical connection	Plug connector, connection pattern to EN 175301-803, type A
Permissible voltage [%]	-10 / +10
fluctuations	
Duty cycle [%]	100
Insulation class	F
Enamelled wire insulation class	H
Degree of protection to EN 60529	IP65 with plug socket

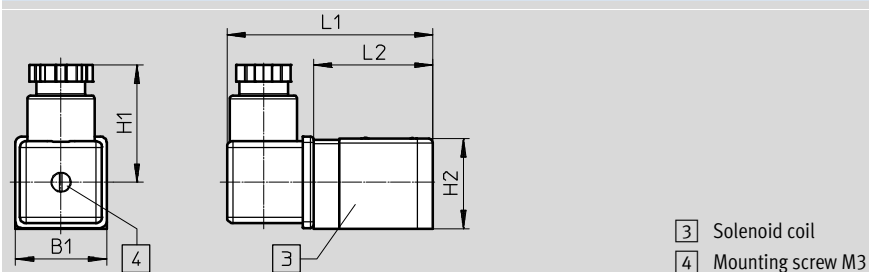
Characteristic coil data	
Nominal operating voltage [V]	24 DC
Max. input voltage [V]	28 DC
Max. input current [mA]	115
Required current consumption [mA]	≤27
Effective internal capacitance	Negligibly low
Effective internal inductance	Negligibly low

Operating and environmental conditions	
Ambient temperature [°C]	-20 ... +50
Corrosion resistance class CRC ¹⁾	2
CE marking (see declaration of conformity) ²⁾	To EU Explosion Protection Directive (ATEX)

- 1) Corrosion resistance class CRC 2 to Festo standard FN 940070
Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.
- 2) Additional information www.festo.com/sp → Certificates.

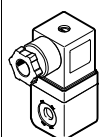
Technical data

ATEX	
ATEX category for gas	II 2G
Type of ignition protection for gas	Ex ia IIC T6, T4 Ga
ATEX category for dust	II 2D
Type of ignition protection for dust	Ex tb IIIC T80°C, T130°C Db IP65
Explosion ambient temperature [°C]	T4,T130°C: -40°C ≤ Ta ≤ +85°C
[°C]	T6,T80°C: -40°C ≤ Ta ≤ +50°C
Explosion protection certification outside the EU	EPL Db (BR), EPL Db (IEC-EX), EPL Ga (BR), EPL Gb (IEC-EX)
Certificate issuing authority	DNV 15.0188
	IECEx PTB 15.0013
	PTB 09 ATEX 2043

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Type	B1	H1	H2	L1	L2
VACN-N-A1-...-EX4-A	30	38.5	29.5	67.7	39.2

Ordering data	
---------------	--



Description		Part No.	Type
Intrinsically safe solenoid coil with plug socket included in delivery, connection pattern to EN 175301-803, type A	24 V DC	8029139	VACN-N-A1-1-EX4-A

Solenoid coils VACC-S13

FESTO

Type codes

VACC		-		-		-		-		-		-		-		-	
Type																	
VACC	Solenoid coil, C series																
Solenoid coil type																	
S13	Solenoid coil, for 13 mm armature tube																
Power consumption																	
11	1.1 W																
18	1.8 W																
Electrical connection																	
A1	Connection pattern type A, to EN 175301																
K4	Cable fitting, metric																
Operating voltage																	
1U	24 V DC and AC																
2U	110 V DC and AC																
3U	230 V DC and AC																
27U	60 V DC and AC																
1	24 V DC																
Circuitry																	
-	None																
F	With fuse																
ATEX certification EU																	
-	None																
EX4	ATEX category II 2GD																
Type of ignition protection																	
-	None																
A	Intrinsically safe																
ME	Moulded encapsulation, enhanced safety																

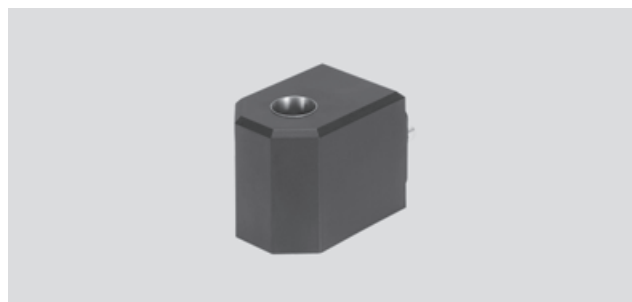
Solenoid coils VACC-S13-18-A1

FESTO

Technical data

-  Voltage
24 V DC
24 V AC/DC
110 V AC/DC
230 V AC/DC
-  Temperature range
-20 ... +60 °C

Nominal power
2 watt at 24 V DC



General technical data	
Type of mounting	Via knurled nut
Type of actuation	Electrical
Mounting position	Any
Product weight [g]	210

Materials	
Housing	PA, UP
Note on materials	Contains paint-wetting impairment substances RoHS compliant

Electrical data	
Electrical connection	Plug pins, 3-pin, with connection pattern to EN 175301-803, type A
Permissible voltage fluctuations [%]	-15 ... 10
Duty cycle [%]	100
Degree of protection to EN 60529	IP65 with plug socket
Insulation class	H

Characteristic coil data								
Nominal operating voltage		24 V DC	24 V AC/DC		110 V AC/DC		230 V AC/DC	
Frequency [Hz]		-	40/65	-	40/65	-	40/65	-
Power	[W]	1.8	-	1.8	-	1.8	-	1.8
	[VA]	-	1.8	-	1.8	-	1.8	-

Operating and environmental conditions				
Nominal operating voltage	24 V DC	24 V AC/DC	110 V AC/DC	230 V AC/DC
Ambient temperature	[°C] -20 ... 60		-20 ... 60	
Corrosion resistance class CRC ¹⁾	4		4	
CE marking (see declaration of conformity) ²⁾	-		To EU Low Voltage Directive (only for alternating voltage AC)	

- 1) Corrosion resistance class CRC 4 to Festo standard FN 940070
Particularly high corrosion stress. Outdoor exposure under extreme corrosive conditions. Parts exposed to aggressive media, for instance in the chemical or food industries. These applications may need to be supported by special tests (→ also FN 940082) using appropriate media.
- 2) Additional information www.festo.com/sp → Certificates.

Solenoid coils VACC-S13-18-A1

Technical data



Dimensions

Download CAD data → www.festo.com

1

Plug pattern type A, to EN 175301-803

Type	B1	D1	H1	L1	L2	L3
VACC-S13-18-A1-...	36	13.1	41	67	55	18

Ordering data				
	Description	Part No.	Type	
	Plug connector type A, to EN 175301-803	24 V DC	562889	VACC-S13-18-A1-1
		24 V AC/DC	562890	VACC-S13-18-A1-1U
		110 V AC/DC	562891	VACC-S13-18-A1-2U
		230 V AC/DC	562892	VACC-S13-18-A1-3U

Solenoid coils VACC-S13-11-...-EX4A

FESTO

Technical data

 Voltage
24 V DC

Nominal power
1.1 watt at 24 V DC



General technical data	
Type of mounting	Via knurled nut
Type of actuation	Electrical
Mounting position	Any
Product weight [g]	330

Materials	
Housing	PA, UP
Note on materials	Contains paint-wetting impairment substances
	RoHS compliant

Electrical data	
Electrical connection	Terminal box, cable entry thread metric, M20x1.5
Permissible voltage fluctuations [%]	-15 ... 10
Duty cycle [%]	100
Maximum input power, P _i [W]	1.2
Maximum input voltage, U _i [V]	32
Maximum input current, I _i [A]	0.2
Required current consumption, I _{min} [mA]	16
Degree of protection to EN 60529	IP64
Insulation class	H

Characteristic coil data	
Nominal operating voltage [V DC]	14 ... 32
Power [W]	0.22 ... 1.1
Effective internal capacitance, C _i	Negligibly low
Effective internal inductance, L _i	Negligibly low

Operating and environmental conditions	
Corrosion resistance class CRC ¹⁾	4
CE mark (see declaration of conformity) ³⁾	To EU EMC Directive ²⁾
	To EU Explosion Protection Directive (ATEX)

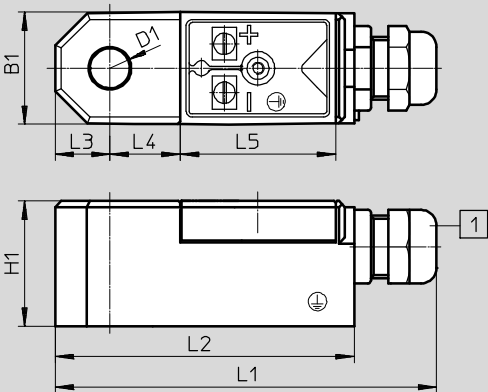
- 1) Corrosion resistance class CRC 4 to Festo standard FN 940070
Particularly high corrosion stress. Outdoor exposure under extreme corrosive conditions. Parts exposed to aggressive media, for instance in the chemical or food industries. These applications may need to be supported by special tests (→ also FN 940082) using appropriate media.
- 2) For information about the applicability of the component see the manufacturer's EC declaration of conformity at: www.festo.com/sp → User documentation.
If the component is subject to restrictions on usage in residential, office or commercial environments or small businesses, further measures to reduce the emitted interference may be necessary.
- 3) Additional information www.festo.com/sp → Certificates.

Solenoid coils VACC-S13-11-...-EX4A

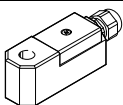
FESTO

Technical data

ATEX	
ATEX category for gas	II 2G
Type of ignition protection for gas	Ex ia IIC T6, T5 Gb
ATEX category for dust	II 2D
Type of ignition protection for dust	Ex ia IIIC T80°C, T95°C Db
Explosion ambient temperature	T5, T95°C: -30°C ≤ Ta ≤ +65°C T6, T80°C: -30°C ≤ Ta ≤ +50°C
Explosion protection certification outside the EU	EPL Gb (BR), EPL Gb (CN)
Certificate issuing authority	BVS15 ATEXE030X NEPSI GYJ111105 TÜV 12.1949 X

Dimensions		Download CAD data → www.festo.com
		
		1 Terminal box, cable entry thread M20x1.5

Type	B1	D1	H1	L1	L2	L3	L4	L5
VACC-S13-11-K4-1-EX4A	37	13.1	41	131	98	18	23	51

Ordering data			
	Description	Part No.	Type
	Terminal box, cable entry thread metric, M20x1.5	562896	VACC-S13-11-K4-1-EX4A

Solenoid coils VACC-S13-18-...-EX4ME

FESTO

Technical data

- 4 -	Voltage	Nominal power
	24 V AC/DC	2 watt at 24 V DC
	60 V AC/DC	
	110 V AC/DC	
	230 V AC/DC	



General technical data	
Type of mounting	Via knurled nut
Type of actuation	Electrical
Mounting position	Any
Product weight [g]	330

Materials	
Housing	PA, UP
Note on materials	Contains paint-wetting impairment substances
	RoHS compliant

Electrical	
Electrical connection	Terminal box, cable entry thread metric, M20x1.5
Permissible voltage fluctuations [%]	-15 ... 10
Duty cycle [%]	100
Insulation class	H
Degree of protection to EN 60529	IP64 (IP65 with internal fuse protection)

Characteristic coil data											
Nominal operating voltage		24 V AC/DC		24 V AC/DC With fuse		60 V AC/DC		110 V AC/DC		230 V AC/DC	
Frequency	[Hz]	40/65	–	40/65	–	40/65	–	40/65	–	40/65	–
Power	[W]	–	1.8	–	1.8	–	1.8	–	1.8	–	1.8
	[VA]	1.8	–	1.8	–	1.8	–	1.8	–	1.8	–

Operating and environmental conditions	
Corrosion resistance class CRC ¹⁾	4
CE marking (see declaration of conformity) ²⁾	To EU Explosion Protection Directive (ATEX)

- 1) Corrosion resistance class CRC 4 to Festo standard FN 940070
Particularly high corrosion stress. Outdoor exposure under extreme corrosive conditions. Parts exposed to aggressive media, for instance in the chemical or food industries. These applications may need to be supported by special tests (→ also FN 940082) using appropriate media.
- 2) Additional information www.festo.com/sp → Certificates.

Solenoid coils VACC-S13-18-...-EX4ME

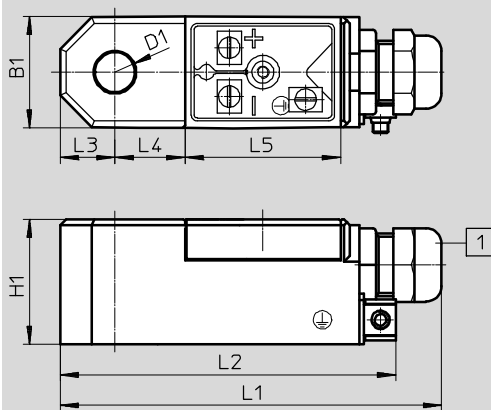
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Technical data

ATEX		
	Solenoid coil without internal fuse	Solenoid coil with internal fuse
ATEX category for gas	II 2G	II 2G
Type of ignition protection for gas	Ex e mb IIC T ₆ , T ₅ , T ₄ Gb	Ex e mb IIC T ₆ Gb
ATEX category for dust	II 2D	II 2D
Type of ignition protection for dust	ExtbIIICT85°C, T95°C, T130°C Db	Ex tb IIIC T70°C Db
Explosion ambient temperature [°C]	T ₄ , T130°C: -20°C ≤ Ta ≤ +60°C	–
	T ₅ , T95°C: -20°C ≤ Ta ≤ +60°C	–
	T ₆ , T80°C: -20°C ≤ Ta ≤ +50°C	T ₆ , T70°C: -20°C ≤ Ta ≤ +40°C
Explosion protection certification outside the EU	EPL Db (BR)	–
	EPL Db (CN)	–
	EPL Db (IEC-EX)	EPL Db (IEC-EX)
	EPL Gb (BR)	–
	EPL Gb (CN)	–
	EPL Gb (IEC-EX)	EPL Gb (IEC-EX)
Certificate issuing authority	BVS15 ATEXE029X	BVS15 ATEXE029X
	IECEx BVS15.0075 X	–
	NEPSI GYJ111104X	–
	TÜV 12.1947 X	–

Dimensions

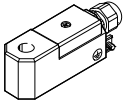
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1 Terminal box, cable entry thread M20x1.5

Type	B1	D1	H1	L1	L2	L3	L4	L5
VACC-S13-18-K4-...-EX4ME	37	13.1	41	125	98	18	23	51
VACC-S13-18-K4-27U-EX4ME					111			

Ordering data

	Description	Part No.	Type
	Terminal box, cable entry thread metric, M20x1.5	24 V AC/DC	562893 VACC-S13-18-K4-1U-EX4ME
		24 V AC/DC With fuse	570784 VACC-S13-18-K4-1UF-EX4ME
		60 V AC/DC	8040578 VACC-S13-18-K4-27U-EX4ME
		110 V AC/DC	562894 VACC-S13-18-K4-2U-EX4ME
		230 V AC/DC	562895 VACC-S13-18-K4-3U-EX4ME

Solenoid coils VACC-S18

Type codes

		VACC	-		-		-		-		-		-		-		-		-	
Type																				
VACC	Solenoid coil, C series																			
Solenoid coil type																				
S18	Solenoid coil, for 18 mm armature tube																			
Power consumption																				
18	1.8 W																			
25	2.5 W																			
35	3.5 W																			
70	7 W																			
120	12 W																			
Electrical connection																				
A1	Connection pattern type A, to EN 175301																			
K4	Cable fitting, metric																			
K5	Cable fitting NPT																			
Operating voltage																				
1A	24 V AC, 50/60 Hz																			
1U	24 V DC and AC																			
2A	110 V AC/50-60 Hz																			
2U	110 V DC and AC																			
3A	230 V AC/50-60 Hz																			
3U	230 V DC and AC																			
7U	48 V DC and AC																			
16U	120 V DC and AC																			
1	24 V DC																			
3	230 V DC																			
7	48 V DC																			
16	120 V DC																			
27	60 V DC																			
Circuitry																				
-	None																			
F	With fuse																			
Certification																				
-	Without certification																			
EX4	ATEX category II 2GD																			
U2	Hazardous environment for USA and Canada (to NEC 500) cULus																			
Type of ignition protection																				
-	None																			
D	Flameproof enclosure																			
ME	Moulded encapsulation, enhanced safety																			

Solenoid coils VACC-S18-35-A1

FESTO

Technical data

-  Voltage
 - 24 V DC
 - 24 V AC
 - 110 V AC
 - 230 V AC
-  Temperature range
 - 20 ... +60 °C

Nominal power
3.6 watt at 24 V DC



General technical data					
Nominal operating voltage	[V]	24 V DC	24 V AC	110 V AC	230 V AC
Type of mounting		Via knurled nut			
Type of actuation		Electrical			
Mounting position		Any			
Product weight	[g]	530			580

Materials	
Solenoid coil	Steel, PA
Note on materials	Contains paint-wetting impairment substances RoHS compliant

Electrical data	
Electrical connection	Plug pins, 3-pin, with connection pattern type A, to EN 175301-803
Permissible voltage fluctuations	[%] -15 ... 10
Duty cycle	[%] 100
Degree of protection to EN 60529	IP65 with plug socket
Insulation class	H

Characteristic coil data					
Nominal operating voltage		24 V DC	24 V AC	110 V AC	230 V AC
Frequency	[Hz]	–	50/60	50/60	50/60
Power	[W]	3.5	–	–	–
	[VA]	–	3.5	3.5	3.5

Operating and environmental conditions					
Nominal operating voltage		24 V DC	24 V AC	110 V AC	230 V AC
Ambient temperature	[°C]	-20 ... 60		-20 ... 60	
Corrosion resistance class CRC ¹⁾		4		4	
CE marking (see declaration of conformity) ²⁾		–		To EU Low Voltage Directive	

- 1) Corrosion resistance class CRC 4 to Festo standard FN 940070
Particularly high corrosion stress. Outdoor exposure under extreme corrosive conditions. Parts exposed to aggressive media, for instance in the chemical or food industries. These applications may need to be supported by special tests (→ also FN 940082) using appropriate media.
- 2) Additional information www.festo.com/sp → Certificates.

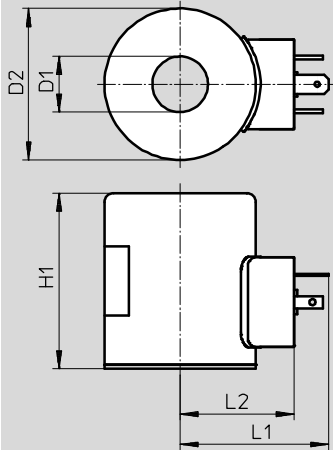
Solenoid coils VACC-S18-35-A1

Technical data

FESTO

Dimensions

Download CAD data → www.festo.com



Type	D1 Ø	D2 Ø	H1	L1	L2
VACC-S18-35-A1-1	18.2	50	58	50	38
VACC-S18-35-A1-1A					
VACC-S18-35-A1-2A					
VACC-S18-35-A1-3A					

Ordering data

	Description	Part No.	Type
	Plug connector type A, to EN 175301-803	24 V DC	562906 VACC-S18-35-A1-1
		24 V AC	562907 VACC-S18-35-A1-1A
		110 V AC	562908 VACC-S18-35-A1-2A
		230 V AC	562909 VACC-S18-35-A1-3A

Solenoid coils VACC-S18-120-A1

FESTO

Technical data

-  Voltage
 - 24 V DC
 - 24 V AC
 - 110 V AC
 - 230 V AC
-  Temperature range
 - 20 ... +60 °C

Nominal power
12 watt at 24 V DC



General technical data	
Type of mounting	Via knurled nut
Type of actuation	Electrical
Mounting position	Any
Product weight	[g] 530

Materials	
Housing	PA, steel
Note on materials	Contains paint-wetting impairment substances
	RoHS compliant

Electrical data	
Electrical connection	Plug pins, 3-pin, with connection pattern to EN 175301-803, type A
Permissible voltage fluctuations	[%] -15 ... 10
Duty cycle	[%] 100
Degree of protection to EN 60529	IP65 with plug socket
Insulation class	H

Characteristic coil data				
Nominal operating voltage	24 V DC	24 V AC	110 V AC	230 V AC
Frequency	[Hz] -	50/60	50/60	50/60
Power	[W] 12.0	-	-	-
	[VA] -	12.0	12.0	12.0

Operating and environmental conditions				
Nominal operating voltage	24 V DC	24 V AC	110 V AC	230 V AC
Ambient temperature	[°C] -20 ... 60		-20 ... 60	
Corrosion resistance class CRC ¹⁾	4		4	
CE marking (see declaration of conformity) ²⁾	-		To EU Low Voltage Directive	

- 1) Corrosion resistance class CRC 4 to Festo standard FN 940070
Particularly high corrosion stress. Outdoor exposure under extreme corrosive conditions. Parts exposed to aggressive media, for instance in the chemical or food industries. These applications may need to be supported by special tests (→ also FN 940082) using appropriate media.
- 2) Additional information www.festo.com/sp → Certificates.

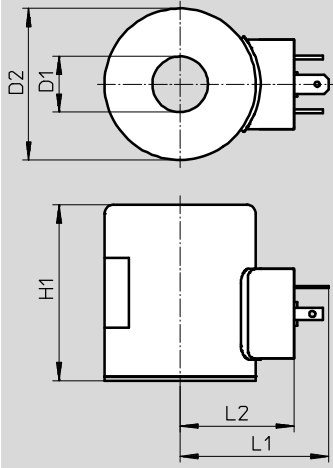
Solenoid coils VACC-S18-120-A1

Technical data

FESTO

Dimensions

Download CAD data → www.festo.com



Type	D1 Ø	D2 Ø	H1	L1	L2
VACC-S18-120-A1-1	18.2	50	58	50	38
VACC-S18-120-A1-1A					
VACC-S18-120-A1-2A					
VACC-S18-120-A1-3A					

Ordering data

	Description	Part No.		Type
	Plug connector type A, to EN 175301-803	24 V DC	8040580	VACC-S18-120-A1-1
		24 V AC	8040890	VACC-S18-120-A1-1A
		110 V AC	8040582	VACC-S18-120-A1-2A
		230 V AC	8040584	VACC-S18-120-A1-3A

Solenoid coils VACC-S18-18-...-EX4D

FESTO

Technical data

-  Voltage
230 V AC
 -  Temperature range
-20 ... +90 °C
- Nominal power
3 watt at 230 V AC



General technical data		
Type of mounting	Via knurled nut	
Type of actuation	Electrical	
Mounting position	Any	
Product weight	[g]	1700

Materials		
Housing	Wrought aluminium alloy, grey cast iron	
Note on materials	Contains paint-wetting impairment substances	
	RoHS compliant	

Electrical data		
Electrical connection	K4	Terminal box, cable entry thread metric, M20x1.5
	K5	Terminal box, cable entry thread NPT, 1/2 NPT
Permissible voltage fluctuations	[%]	-15 ... 10
Duty cycle	[%]	100
Degree of protection to EN 60529	IP65 with plug socket	
Insulation class	H	

Characteristic coil data		
Nominal operating voltage	[V AC]	230
Frequency	[Hz]	50/60
Power	[VA]	1.8

ATEX		
ATEX category for gas	II 2G	
Type of ignition protection for gas	Ex d IIC T6, T5, T4 Gb	
ATEX category for dust	II 2D	
Type of ignition protection for dust	Ex tb IIIC T80°C, T95°C, T130°C Db	
Explosion ambient temperature	[°C]	T4, T130°C: -50°C ≤ Ta ≤ +90°C
		T5, T95°C: -50°C ≤ Ta ≤ +55°C
		T6, T80°C: -50°C ≤ Ta ≤ +40°C
Explosion protection certification outside the EU	EPL Db (BR), EPL Db (CN), EPL Db (IEC-EX), EPL Gb (BR), EPL Gb (CN), EPL Gb (IEC-EX)	
Certificate issuing authority	NEPSI GYJ111107	
	BVS15ATEXE135	
	IECEXBVS.15.0116	
	TÜV 12.1948	

Operating and environmental conditions	
Corrosion resistance class CRC ¹⁾	4
CE marking (see declaration of conformity) ²⁾	To EU Explosion Protection Directive (ATEX)

- 1) Corrosion resistance class CRC 4 to Festo standard FN 940070
Particularly high corrosion stress. Outdoor exposure under extreme corrosive conditions. Parts exposed to aggressive media, for instance in the chemical or food industries. These applications may need to be supported by special tests (→ also FN 940082) using appropriate media.
- 2) Additional information www.festo.com/sp → Certificates.

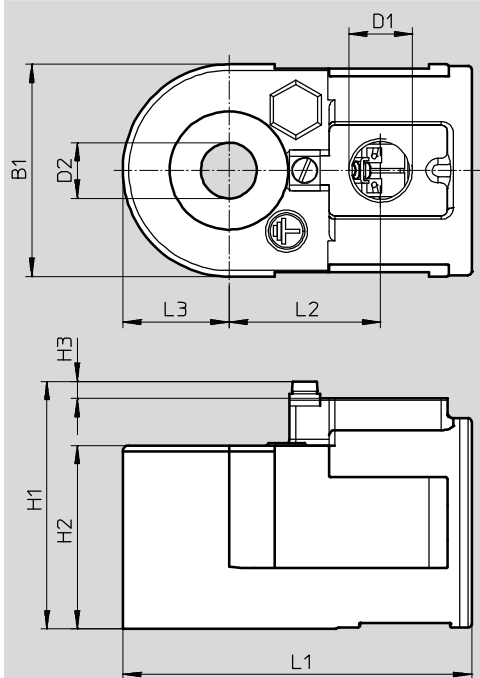
Solenoid coils VACC-S18-18-...-EX4D

Technical data

FESTO

Dimensions

Download CAD data → www.festo.com



Type	B1	D1	D2 Ø	H1	H2	H3	L1	L2	L3
VACC-S18-18-K4-3A-EX4D	70	M20x1.5	18.2	82	60.5	6	115	50	35
VACC-S18-18-K5-3A-EX4D		1/2 NPT							

Ordering data

	Description	Part No.	Type
	Terminal box, cable fitting metric, M20x1.5	3504741	VACC-S18-18-K4-3A-EX4D
	Terminal box, cable fitting NPT, 1/2 NPT	3546734	VACC-S18-18-K5-3A-EX4D

Solenoid coils VACC-S18-25-...-EX4D

FESTO

Technical data

-  Voltage
24 V AC/DC
110 V AC/DC
230 V AC/DC
 -  Temperature range
-20 ... +60 °C
- Nominal power
2.5 watt at 24 V DC



General technical data	
Type of mounting	Via knurled nut
Type of actuation	Electrical
Mounting position	Any
Product weight [g]	1700

Materials	
Housing	Wrought aluminium alloy, grey cast iron
Note on materials	Contains paint-wetting impairment substances RoHS compliant

Electrical data		
Electrical connection	K4	Terminal box, cable entry thread metric, M20x1.5
	K5	Terminal box, cable entry thread NPT, 1/2 NPT
Permissible voltage fluctuations	[%]	-15 ... 10
Duty cycle	[%]	100
Degree of protection to EN 60529		IP65
Insulation class		H

Characteristic coil data				
Nominal operating voltage		24 V AC/DC	110 V AC/DC	230 V AC/DC
Frequency	[Hz]	40/65	40/65	40/65
Power	[W]	2.5	2.5	2.5
	[VA]	2.5	2.5	2.5

ATEX	
ATEX category for gas	II 2G
Type of ignition protection for gas	Ex d IIC T6, T5, T4 Gb
ATEX category for dust	II 2D
Type of ignition protection for dust	Ex tb IIIC T80°C, T95°C, T130°C Db
Explosion ambient temperature [°C]	T4, T130°C: -50°C ≤ Ta ≤ +90°C
	T5, T95°C: -50°C ≤ Ta ≤ +55°C
	T6, T80°C: -50°C ≤ Ta ≤ +40°C
Explosion protection certification outside the EU	EPL Gb (BR), EPL Gb (CN)
Certificate issuing authority	NEPSI GY111107
	PTB 08 ATEX 1086
	TÜV 12.1948

Operating and environmental conditions	
Corrosion resistance class CRC ¹⁾	4
CE marking (see declaration of conformity) ²⁾	To EU Explosion Protection Directive (ATEX)

- 1) Corrosion resistance class CRC 4 to Festo standard FN 940070
Particularly high corrosion stress. Outdoor exposure under extreme corrosive conditions. Parts exposed to aggressive media, for instance in the chemical or food industries. These applications may need to be supported by special tests (→ also FN 940082) using appropriate media.
- 2) Additional information www.festo.com/sp → Certificates.

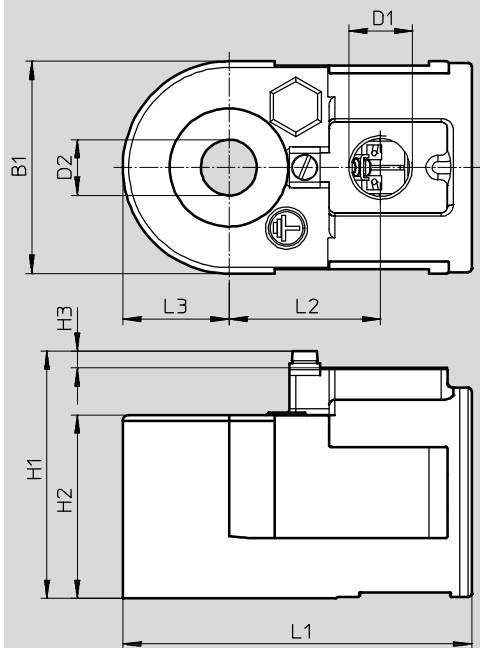
Solenoid coils VACC-S18-25-...-EX4D

Technical data

FESTO

Dimensions

Download CAD data → www.festo.com



Type	B1	D1	D2 Ø	H1	H2	H3	L1	L2	L3
VACC-S18-25-K4-...U-EX4D	70	M20x1.5	18.2	82	60.5	6	115	50	35
VACC-S18-25-K5-...U-EX4D		1/2 NPT							

Ordering data

	Description		Part No.	Type
	Terminal box, cable entry thread metric, M20x1.5	24 V AC/DC	562903	VACC-S18-25-K4-1U-EX4D
		110 V AC/DC	562904	VACC-S18-25-K4-2U-EX4D
		230 V AC/DC	562905	VACC-S18-25-K4-3U-EX4D
	Terminal box, cable entry thread NPT, 1/2 NPT	24 V AC/DC	562900	VACC-S18-25-K5-1U-EX4D
		110 V AC/DC	562901	VACC-S18-25-K5-2U-EX4D
		230 V AC/DC	562902	VACC-S18-25-K5-3U-EX4D

Solenoid coils VACC-S18-70-...-EX4D

FESTO

Technical data

- 	Voltage	Nominal power
	24 V AC/DC	7 watt at 24 V DC
	48 V AC/DC	
	110 V AC/DC	
	120 V AC/DC	
	230 V AC/DC	
- 	Temperature range	
	-20 ... +90 °C	



General technical data	
Type of mounting	Via knurled nut
Type of actuation	Electrical
Mounting position	Any
Product weight	[g] 1700

Materials	
Housing	Wrought aluminium alloy, grey cast iron
Note on materials	Contains paint-wetting impairment substances
	RoHS compliant

Electrical data		
Electrical connection	K4	Terminal box, cable entry thread metric, M20x1.5
	K5	Terminal box, cable entry thread NPT, 1/2 NPT
Permissible voltage fluctuations	[%]	-15 ... 10
Duty cycle	[%]	100
Degree of protection to EN 60529		IP65
Insulation class		H

Characteristic coil data						
Nominal operating voltage		24 V AC/DC	48 V AC/DC	110 V AC/DC	120 V AC/DC	230 V AC/DC
Frequency	[Hz]	40/65	40/65	40/65	40/65	40/65
Power	[W]	7	7	7	7	7
	[VA]	7	7	7	7	7

ATEX	
ATEX category for gas	II 2G
Type of ignition protection for gas	Ex d IIC T6, T5, T4 Gb
ATEX category for dust	II 2D
Type of ignition protection for dust	Ex tb IIIC T80°C, T95°C, T130°C Db
Explosion ambient temperature	[°C] T4, T130°C: -50°C ≤ Ta ≤ +90°C
	T5, T95°C: -50°C ≤ Ta ≤ +55°C
	T6, T80°C: -50°C ≤ Ta ≤ +40°C
Explosion protection certification outside the EU	EPL Db (BR), EPL Db (CN), EPL Db (IEC-EX), EPL Gb (BR), EPL Gb (CN), EPL Gb (IEC-EX)
Certificate issuing authority	NEPSI GYJ111107
	BVS15ATEXE135
	IECEXBVS.15.0116
	TÜV 12.1948

Operating and environmental conditions	
Corrosion resistance class CRC ¹⁾	4
CE marking (see declaration of conformity) ²⁾	To EU Explosion Protection Directive (ATEX)

- 1) Corrosion resistance class CRC 4 to Festo standard FN 940070
Particularly high corrosion stress. Outdoor exposure under extreme corrosive conditions. Parts exposed to aggressive media, for instance in the chemical or food industries. These applications may need to be supported by special tests (→ also FN 940082) using appropriate media.
- 2) Additional information www.festo.com/sp → Certificates.

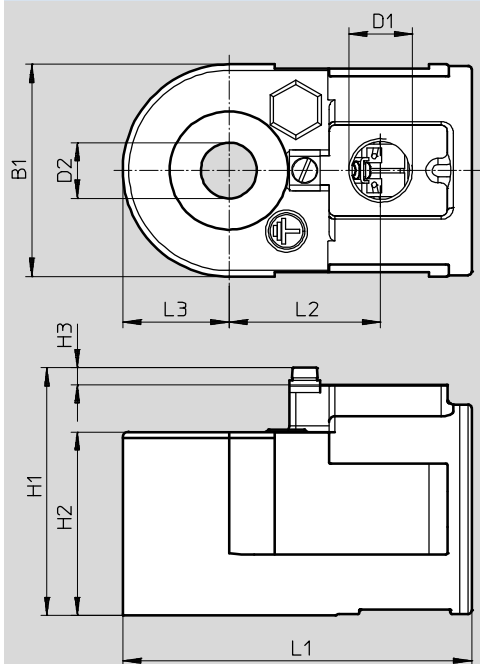
Solenoid coils VACC-S18-70-...-EX4D

Technical data

FESTO

Dimensions

Download CAD data → www.festo.com



Type	B1	D1	D2 Ø	H1	H2	H3	L1	L2	L3
VACC-S18-70-K4-...-EX4D	70	M20x1.5	18.2	82	60.5	6	115	50	35
VACC-S18-70-K5-...-EX4D	70	1/2 NPT	18.2	82	60.5	6	115	50	35

Ordering data

Description			Part No.	Type
	Terminal box, cable fitting metric, M20x1.5	24 V AC/DC	3504563	VACC-S18-70-K4-1U-EX4D
		48 V AC/DC	3504574	VACC-S18-70-K4-7U-EX4D
		120 V AC/DC	3504609	VACC-S18-70-K4-16U-EX4D
		230 V AC/DC	3504639	VACC-S18-70-K4-3U-EX4D
	Terminal box, cable fitting NPT, 1/2 NPT	24 V AC/DC	3546549	VACC-S18-70-K5-1U-EX4D
		48 V AC/DC	3546588	VACC-S18-70-K5-7U-EX4D
		110 V AC/DC	3546625	VACC-S18-70-K5-2U-EX4D
		230 V AC/DC	3546662	VACC-S18-70-K5-3U-EX4D

Solenoid coils VACC-S18-35-...-EX4ME

FESTO

Technical data

- L -	Voltage	Nominal power
	24 V AC/DC	3.4 watt at 24 V DC
	110 V AC/DC	
	230 V AC/DC	



General technical data	
Type of mounting	Via knurled nut
Type of actuation	Electrical
Mounting position	Any
Product weight	[g] 580

Materials	
Housing	PA, steel
Note on materials	Contains paint-wetting impairment substances
	RoHS compliant

Electrical data	
Electrical connection	Terminal box, cable entry thread metric, M20x1.5
Permissible voltage fluctuations	[%] -15 ... 10
Duty cycle	[%] 100
Degree of protection to EN 60529	IP65 with plug socket
Insulation class	H

Characteristic coil data					
Nominal operating voltage		24 V AC/DC	24 V AC/DC With fuse	110 V AC/DC	230 V AC/DC
Frequency	[Hz]	50/60	50/60	50/60	50/60
Power	[W]	3.5	3.5	3.5	3.5
	[VA]	3.5	3.5	3.5	3.5

ATEX	
ATEX category for gas	II 2G
Type of ignition protection for gas	Ex e mb II T ₆ , T ₅
ATEX category for dust	II 2D
Type of ignition protection for dust	Ex tD A21 IP65 T80°C, T95°C
Explosion ambient temperature	[°C] T ₅ , T95°C: -20°C ≤ Ta ≤ +60°C
	T ₆ , T80°C: -20°C ≤ Ta ≤ +50°C
Explosion protection certification outside the EU	EPL Db (BR), EPL Db (CN), EPL Gb (BR), EPL Gb (CN)
Certificate issuing authority	NEPSI GYJ111106X
	PTB 08 ATEX 2033 X
	TÜV 12.1946 X

Operating and environmental conditions	
Corrosion resistance class CRC ¹⁾	4
CE marking (see declaration of conformity) ²⁾	To EU Explosion Protection Directive (ATEX)

- 1) Corrosion resistance class CRC 4 to Festo standard FN 940070
Particularly high corrosion stress. Outdoor exposure under extreme corrosive conditions. Parts exposed to aggressive media, for instance in the chemical or food industries. These applications may need to be supported by special tests (→ also FN 940082) using appropriate media.
- 2) Additional information www.festo.com/sp → Certificates.

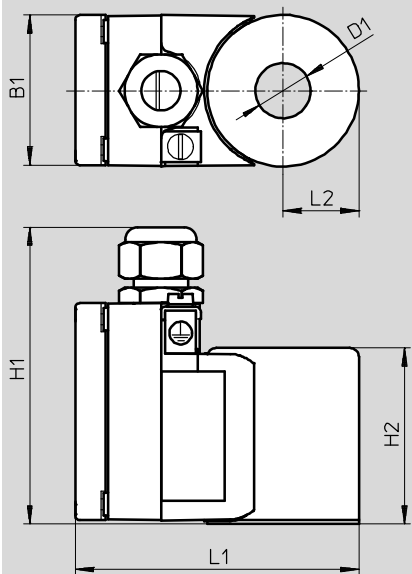
Solenoid coils VACC-S18-35-...-EX4ME

Technical data

FESTO

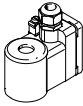
Dimensions

Download CAD data → www.festo.com



Type	B1	D1 Ø	H1	H2	L1	L2
VACC-S18-35-K4-...-EX4ME	50	18.2	100	58	95	25

Ordering data

	Description	Part No.	Type
	Terminal box, cable entry thread metric, M20x1.5	24 V AC/DC	562897 VACC-S18-35-K4-1U-EX4ME
		24 V AC/DC With fuse	570785 VACC-S18-35-K4-1UF-EX4ME
		110 V AC/DC	562898 VACC-S18-35-K4-2U-EX4ME
		230 V AC/DC	562899 VACC-S18-35-K4-3U-EX4ME

Solenoid coils VACC-S18-120-...-EX4ME

FESTO

Technical data



Voltage
24 V AC/DC
48 V DC
60 V DC
110 V AC/DC
230 V AC/DC

Nominal power
12.0 watt at 24 V DC



General technical data	
Type of mounting	Via knurled nut
Type of actuation	Electrical
Mounting position	Any
Product weight [g]	580

Materials	
Housing	PA, steel
Note on materials	Contains paint-wetting impairment substances RoHS compliant

Electrical data	
Electrical connection	Terminal box, cable entry thread metric, M20x1.5
Permissible voltage fluctuations [%]	-15 ... 10
Duty cycle [%]	100
Degree of protection to EN 60529	IP65 with plug socket
Insulation class	H

Characteristic coil data							
Nominal operating voltage		24 V AC/DC	24 V AC/DC With fuse	48 V AC/DC	60 V AC/DC	110 V AC/DC	230 V AC/DC
Frequency [Hz]		50/60	50/60	–	–	50/60	50/60
Power [W]		12	12	12	12	12	12
	[VA]	12	12	–	–	12	12

ATEX	
ATEX category gas	II 2G
Type of ignition protection for gas	Ex e mb II T4
ATEX category for dust	II 2D
Type of ignition protection for dust	Ex tD A21 IP65 T130°C
Explosion ambient temperature [°C]	T4, T130°C: -20°C = Ta = +40°C
Explosion protection certification outside the EU	EPL Db (BR), EPL Db (CN), EPL Gb (BR), EPL Gb (CN)
Certificate issuing authority	NEPSI GYJ111106X PTB 08 ATEX 2033 X TÜV 12.1946 X

Operating and environmental conditions	
Corrosion resistance class CRC ¹⁾	4
CE marking (see declaration of conformity) ²⁾	To EU Explosion Protection Directive (ATEX)

- 1) Corrosion resistance class CRC 4 to Festo standard FN 940070
Particularly high corrosion stress. Outdoor exposure under extreme corrosive conditions. Parts exposed to aggressive media, for instance in the chemical or food industries. These applications may need to be supported by special tests (→ also FN 940082) using appropriate media.
- 2) Additional information www.festo.com/sp → Certificates.

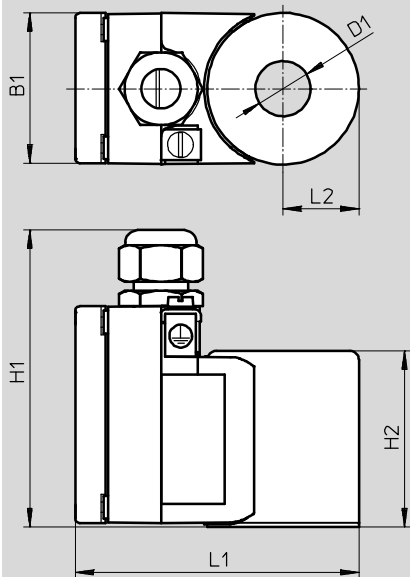
Solenoid coils VACC-S18-120-...-EX4ME

Technical data

FESTO

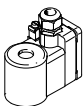
Dimensions

Download CAD data → www.festo.com



Type	B1	D1 Ø	H1	H2	L1	L2
VACC-S18-120-K4-...-EX4ME	50	18.2	100	58	95	25

Ordering data

	Description	Part No.	Type
	Terminal box, cable entry thread metric, M20x1.5	24 V AC/DC	3536527 VACC-S18-120-K4-1U-EX4ME
		24 V AC/DC With fuse	3535840 VACC-S18-120-K4-1UF-EX4ME
		48 V DC	3536573 VACC-S18-120-K4-7-EX4ME
		60 V DC	3536569 VACC-S18-120-K4-27-EX4ME
		110 V AC/DC	3536565 VACC-S18-120-K4-2U-EX4ME
		230 V AC/DC	3536568 VACC-S18-120-K4-3U-EX4ME

Solenoid coils VACC-S18-70-...-U2D

FESTO

Technical data



Voltage
24 V DC
48 V DC
125 V DC
220 V DC

Nominal power
7.0 watt at 24 V DC



General technical data	
Type of mounting	Via knurled nut
Type of actuation	Electrical
Mounting position	Any
Product weight [g]	1700

Materials	
Housing	Grey cast iron, wrought aluminium alloy
Note on materials	Contains paint-wetting impairment substances RoHS compliant

Electrical data	
Electrical connection	Terminal box, cable entry thread 1/2 NPT
Permissible voltage fluctuations [%]	-15 ... 10
Duty cycle [%]	100
Degree of protection to EN 60529	IP65 with plug socket
Insulation class	H

Characteristic coil data				
Nominal operating voltage	24 V DC	48 V DC	125 V DC	220 V DC
Power [W]	7.0	7.0	7.0	7.0

Operating and environmental conditions				
Nominal operating voltage	24 V DC	48 V DC	125 V DC	220 V DC
Corrosion resistance class CRC ¹⁾	4		4	
CE marking (see declaration of conformity) ²⁾	-		To EU Low Voltage Directive	

- 1) Corrosion resistance class CRC 4 to Festo standard FN 940070
Particularly high corrosion stress. Outdoor exposure under extreme corrosive conditions. Parts exposed to aggressive media, for instance in the chemical or food industries. These applications may need to be supported by special tests (→ also FN 940082) using appropriate media.
- 2) Additional information www.festo.com/sp → Certificates.

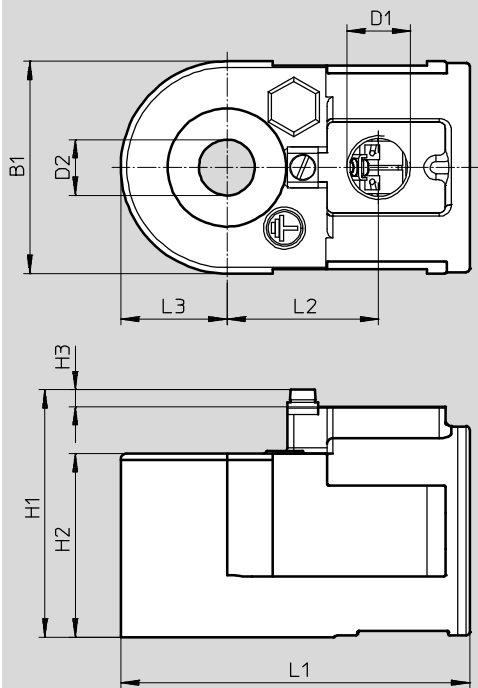
Solenoid coils VACC-S18-70-...-U2D

Technical data

FESTO

Dimensions

Download CAD data → www.festo.com



Type	B1	D1	D2 Ø	H1	H2	H3	L1	L2	L3
VACC-S18-70-K5-...-U2D	70	1/2 NPT	18.2	82	60.5	6	115	50	35

Ordering data

	Description	Part No.	Type
	Terminal box, cable entry thread 1/2 NPT	24 V DC	3546816 VACC-S18-70-K5-1-U2D
		48 V DC	3546876 VACC-S18-70-K5-7-U2D
		125 V DC	3546913 VACC-S18-70-K5-16-U2D
		220 V DC	3546949 VACC-S18-70-K5-3-U2D

Solenoid coils MSN1

Type codes

FESTO

		MSN1G	–	24DC	–	OD
Type						
MSN1G	N1 solenoid coil, for direct current					
MSN1W	N1 solenoid coil, for alternating current					
Operating voltage						
24DC	24 V DC					
24AC/12DC	12 V DC/24 V AC					
110AC	110 V AC					
230AC	230 V AC					
Scope of delivery						
OD	Without plug socket					
–	Without plug socket					

Solenoid coils MSN1

FESTO

Technical data

-  Voltage
12 V DC
24 V DC
24 ... 230 V AC

-  Temperature range
-10 ... +50 °C

- Can be replaced without interrupting the pneumatic circuit
- Connection pattern to EN 175301-803, type A
- Free of copper, PTFE and silicone



General technical data	
Type of mounting	Clamped using retaining clamp
Mounting position	Any (can be rotated 360° on the armature tube)
Product weight [g]	80

Materials	
Housing	PA
Pin contact	Steel
Winding	Copper
Note on materials	Free of copper and PTFE

Electrical data						
Operating voltage	12 V DC	24 V DC	24 V AC	110 V AC	120 V AC	230 V AC
Electrical connection	Plug pins, 3-pin, with connection pattern to EN 175301-803, type A					
	Clip-on	–	Clip-on	–	–	–
Min. pickup time [ms]	10	10	10			10
Permissible voltage fluctuations [%]	–15 / +10	–15 / +10	At 50 Hz: –10 / +10 At 60 Hz: –10 / +20			–10 / +10
Duty cycle [%]	100	100	100			100
Degree of protection to EN 60529	IP65 with plug socket		IP65 with plug socket			

Characteristic coil data						
Operating voltage	12 V DC	24 V DC	24 V AC	110 V AC	120 V AC	230 V AC
Power [W]	5	2.5	–	–	–	–
Pick-up power, 50 Hz [VA]	–	–	7.5	5	7.5	5
Holding power, 50 Hz [VA]	–	–	5	3.7	5	3.7
Power factor cos(phi)	–	–	0.7	0.7	0.7	0.7
Frequency [Hz]	–	–	50	60	50	60

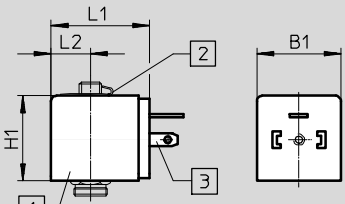
Operating and environmental conditions						
Operating voltage	12 V DC	24 V DC	24 V AC	110 V AC	120 V AC	230 V AC
Ambient temperature [°C]	–10 ... +50	–10 ... +50	–10 ... +50	–10 ... +50		
Temperature of medium [°C]	–10 ... +50	–10 ... +50	–10 ... +50	–10 ... +50		
CE mark (see declaration of conformity) ¹⁾	–	–	–	To EU Low Voltage Directive		
Approval certificate	–	c UL us - Recognised (OL)	–	Germanischer Lloyd		

1) Additional information www.festo.com/sp → Certificates.

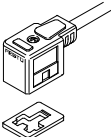
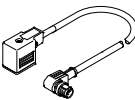
Solenoid coils MSN1

Technical data

FESTO

Dimensions		Download CAD data → www.festo.com	
	1 Solenoid coil (can be rotated 360° on the armature tube) 2 Safety clip 3 Plug pins with connection pattern to EN 175301-803, type A		

Type	B1	H1	L1	L2
MSN1...	30	30	35.5	14.5

Ordering data				
	Description		Part No.	Type
Solenoid coil				
	Without plug socket, connection pattern to EN 175301-803, type A	24 V DC	123060	MSN1G-24DC-OD
		12 V DC, 24 V AC	170152	MSN1W-24AC/12DC
		110 V AC, 120 V AC	123061	MSN1W-110AC-OD
		230 V AC	123062	MSN1W-230AC-OD
Plug socket				
	Cable connection using clamping screws		34583	MSSD-C
	Cable connection using insulation displacement technology		192748	MSSD-C-S-M16
Connecting cable				
	Operating voltage 24 V DC, signal status display with LED	Cable length 0.6 m	3679776	NEBV-A1W3F-P-K-0.6-N-LE3
		Cable length 2.5 m	30931	KMC-1-24DC-2,5-LED
		Cable length 5 m	30933	KMC-1-24DC-5-LED
		Cable length 10 m	193459	KMC-1-24-10-LED
	Operating voltage up to 240 V	Cable length 0.6 m	3579466	NEBV-A1W3-K-0.6-N-LE3
		Cable length 2.5 m	30932	KMC-1-230AC-2,5
		Cable length 5 m	30934	KMC-1-230AC-5
	Electrical connection 2, M12x1, A-coded Operating voltage 24 V DC, signal status display with LED	Cable length 0.3 m	3679771	NEBV-A1W3F-P-K-0.3-N-M12W3
		Cable length 0.6 m	3679772	NEBV-A1W3F-P-K-0.6-N-M12W3
	Electrical connection 2, M12x1, A-coded Operating voltage up to 240 V	Cable length 0.3 m	3579461	NEBV-A1W3-K-0.3-N-M12W3
		Cable length 0.6 m	3579462	NEBV-A1W3-K-0.6-N-M12W3
Illuminating seal				
	Operating voltage 12 ... 24 V DC		19145	MC-LD-12-24DC
	Operating voltage 230 V DC/V AC		19146	MC-LD-230AC
Inscription label				
	Scope of delivery: 35 labels in frames		33362	KMC/F/V-BZ-35X

Solenoid coils VACS

Type codes

FESTO

		VACS	—	C	—	C1	—	5
Type								
VACS	Solenoid coil, S series							
Solenoid coil type								
C	Width 18 mm, for 8 mm armature tube							
Electrical connection								
C1	Connection pattern type C, to EN 175301							
Operating voltage								
5	12 V DC							
1	24 V DC							
7	48 V DC							
1A	24 V AC, 50/60 Hz							
7A	48 V AC, 50/60 Hz							
16B	110/120 V AC, 50/60 Hz							
3W	230/240 V AC, 50/60 Hz							

Solenoid coils VACS

Technical data

FESTO

-  Voltage
12 ... 48 V DC
24 ... 240 V AC
-  Temperature range
-10 ... +50 °C

- In accordance with VDE regulation 0580, insulation class H
- Connection pattern to EN 175301-803, type C
- Can be replaced without interrupting the pneumatic circuit



General technical data	
Type of mounting	Via knurled nut
Mounting position	Any (can be rotated in increments of 45° on the armature tube)

Materials	
Housing seal set	Aluminium, HNBR
Housing	PA, steel
Winding	Copper
Note on materials	RoHS compliant

Electrical data	
Electrical connection	Plug pins, 3-pin, with connection pattern to EN 175301-803, type C
Permissible voltage fluctuations [%]	-10 / +10
Duty cycle [%]	100
Degree of protection to EN 60529	IP65 with plug socket
Insulation class	H

Characteristic coil data							
Operating voltage	12 V DC	24 V DC	48 V DC	24 V AC	48 V AC	110/120 V AC	230/240 V AC
Power [W]	2.6	2.6	2.4	–	–	–	–
Pick-up power, 50 Hz [VA]	–	–	–	2.5	2.5	2.3	3.0
Holding power, 50 Hz [VA]	–	–	–	1.8	1.9	1.7	2.3
Frequency [Hz]	–	–	–	50/60	50/60	50/60	50/60
Surge resistance [kV]	–	–	–	–	–	2.5	4

Operating and environmental conditions							
Operating voltage	12 V DC	24 V DC	48 V DC	24 V AC	48 V AC	110/120 V AC	230/240 V AC
Ambient temperature [°C]	-10 ... +50					-10 ... +50	
Corrosion resistance class CRC ¹⁾	2					2	
Degree of contamination	–					3	
CE marking (see declaration of conformity) ²⁾	–					To EU Low Voltage Directive	
Certification	c UL us - Recognized (OL)		–	c UL us - Recognized (OL)	–	–	

1) Corrosion resistance class CRC 2 to Festo standard FN 940070

Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.

2) Additional information www.festo.com/sp → Certificates.

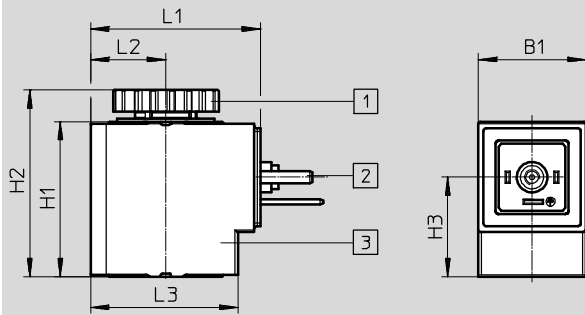
Solenoid coils VACS

Technical data

FESTO

Dimensions

Download CAD data → www.festo.com



- 1 Knurled nut (seal set for solenoid coil)
- 2 Plug pattern to EN 175301-803, type C

- 3 Solenoid coil
(can be rotated in increments of 45° on the armature tube, push on in any direction)

Type	B1	H1	H2	H3	L1	L2	L3
VACS-C-C1-...	17.6	25.4	30.6	16.3	27.8	12.3	24.1

Ordering data

	Description	Part No.	Type
Solenoid coil			
	Without plug socket, connection pattern to EN 175301-803, type C	12 V DC	8025331 VACS-C-C1-5
		24 V DC	8025330 VACS-C-C1-1
		48 V DC	8025336 VACS-C-C1-7
		24 V AC	8025335 VACS-C-C1-1A
		48 V AC	8025337 VACS-C-C1-7A
		110/120 V AC	8025334 VACS-C-C1-16B
		230/240 V AC	8025338 VACS-C-C1-3W
Seal set			
	To achieve degree of protection IP67	2643771	VAMC-B10-C-B-S8

Solenoid coils MH-2

Type codes

FESTO

		MH-2	—	24VDC	—	PA					
Type											
MH-2	Solenoid coil with lock nut (hex nut) G3/8										
Operating voltage											
24VDC	24 V DC										
110VAC	110 V AC										
230VAC	230 V AC										
Electrical connection											
PA	Connection pattern to EN 175301-803, type A										

Solenoid coils MH-2

Technical data

FESTO

 Voltage
 24 V DC
 110, 230 V AC

 Temperature range
 -20 ... +50 °C

- Can be replaced without interrupting the pneumatic circuit
- Connection pattern to EN 175301-803, type A



General technical data		
Type of mounting		Via lock nut
Max. tightening torque of fitting	[Nm]	2
Mounting position		Any
Product weight	[g]	150

Materials	
Solenoid coil	Duroplast, copper, steel
Winding	Copper
Note on materials	Contains paint-wetting impairment substances

Electrical data	
Electrical connection	Plug pins with connection pattern to EN 175301-803, type A
Min. pickup time	[ms] 12
Permissible voltage fluctuations	[%] -10 / +10
Duty cycle	[%] 100
Degree of protection to EN 60529	IP65 with plug socket

Characteristic coil data				
Operating voltage		24 V DC	110 V AC	230 V AC
Power	[W]	7.9	–	–
	[VA]	–	14	14
Power factor cos(phi)		–	0.7	0.7
Frequency		[Hz] –	50/60	50/60
Permissible frequency fluctuations		[%] -10 / +10	-10 / +10	-10 / +10

Operating and environmental conditions			
Operating voltage		24 V DC	110 V AC 230 V AC
Ambient temperature		[°C] -20 ... 50	-20 ... 50
CE mark (see declaration of conformity) ¹⁾		–	To EU Low Voltage Directive

2) Additional information www.festo.com/sp → Certificates.

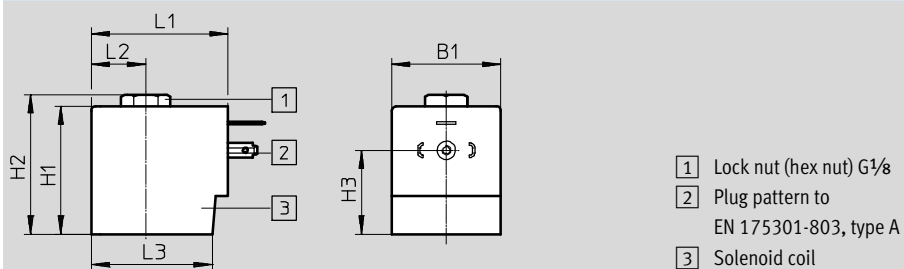
Solenoid coils MH-2

Technical data

FESTO

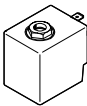
Dimensions

Download CAD data → www.festo.com



Type	B1	H1	H2	H3	L1	L2	L3
MH-2-...	35.8	42.1	45.9	27.6	45.5	18	39.8

Ordering data

Ordering data		Description	Part No.	Type
Solenoid coil				
	Without plug socket, connection pattern to EN 175301-803, type A	24 V DC	549906	MH-2-24VDC-PA
		110 V AC	549907	MH-2-110VAC-PA
		230 V AC	549908	MH-2-230VAC-PA
Plug socket				
	3-pin, square design, connection pattern to EN 175301-803, type A		550067	MSSD-N

Solenoid coils VACN-H1

Type codes

		VACN	—	H1	—	A1	—	1
Type								
VACN	Solenoid coil, N series							
Solenoid coil type								
H1	H1 solenoid coil, for 14 mm armature tube							
Electrical connection								
A1	Connection pattern type A, to EN 175301							
Operating voltage								
1	24 V DC							
2A	110 V AC, 50/60 Hz							
3A	230 V AC, 50/60 Hz							

Solenoid coils VACN-H1

Technical data

FESTO

-  Voltage
24 V DC
110, 240 V AC
-  Temperature range
-20 ... +50 °C
- Can be replaced without interrupting the pneumatic circuit



General technical data		
Type of mounting	Via lock nut	
Mounting position	Any (can be rotated 360° on the armature tube)	
Product weight	[g]	150

Materials		
Solenoid coil	Copper, steel, thermoplastic	
Winding	Copper	
Note on materials	Contains paint-wetting impairment substances	
	RoHS compliant	

Electrical data		
Electrical connection	Plug pins, 3-pin, with connection pattern to EN 175301-803, type A	
Max. tightening torque of fitting	[Nm]	2
Min. pickup time	[ms]	12
Permissible voltage fluctuations	[%]	-10 / +10
Permissible frequency fluctuations	[%]	-10 / +10
Duty cycle	[%]	100
Degree of protection to EN 60529	IP65 with plug socket	

Characteristic coil data				
Operating voltage		24 V DC	110 V AC	230 V AC
Power	[W]	11.9	–	–
Pick-up power	[VA]	–	36	36
Holding power	[VA]	–	21.4	21.8
Power factor cos(phi)		–	0.7	0.7
Frequency	[Hz]	–	50	50/60

Operating and environmental conditions				
Operating voltage		24 V DC	110 V AC	230 V AC
Ambient temperature	[°C]	-20 ... +50	-20 ... +50	
	[°C]	-20 ... +60 (with limited duty cycle)	-20 ... +60 (with limited duty cycle)	
Corrosion resistance class CRC ¹⁾		4	4	
Degree of contamination		–	3	
CE marking (see declaration of conformity) ²⁾		–	To EU Low Voltage Directive	

- 1) Corrosion resistance class CRC 4 to Festo standard FN 940070
Particularly high corrosion stress. Outdoor exposure under extreme corrosive conditions. Parts exposed to aggressive media, for instance in the chemical or food industries. These applications may need to be supported by special tests (→ also FN 940082) using appropriate media.
- 2) Additional information www.festo.com/sp → Certificates.

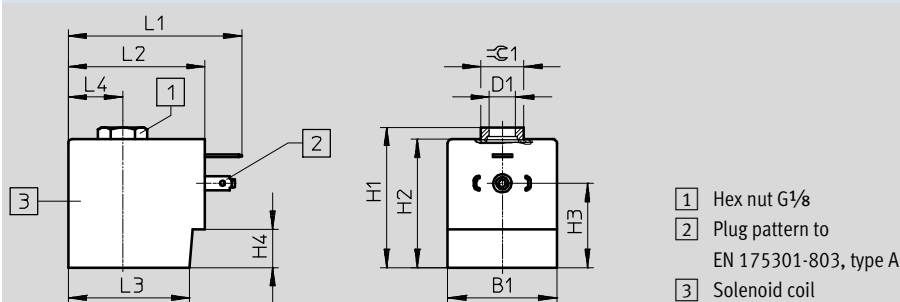
Solenoid coils VACN-H1

Technical data

FESTO

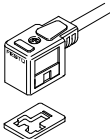
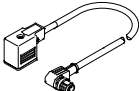
Dimensions

Download CAD data → www.festo.com



Type	B1	D1	H1	H2	H3	H4	L1	L2	L3	L4	±C 1
VACN-H1-A1-...	35.8	G1/8	45.9	42.1	27.6	12.5	57	45	39.8	17.9	14

Ordering data

Drawing data		Description	Part No.	Type
Solenoid coil				
	Without plug socket, connection pattern to EN 175301-803, type A	24 V DC	8022877	VACN-H1-A1-1
		110 V AC	8022878	VACN-H1-A1-2A
		230 V AC	8022879	VACN-H1-A1-3A
Plug socket				
	Cable connection using clamping screws		34583	MSSD-C
	Cable connection using insulation displacement technology		192748	MSSD-C-S-M16
Connecting cable				
	Operating voltage 24 V DC, signal status display with LED	Cable length 0.6 m	3679776	NEBV-A1W3F-P-K-0.6-N-LE3
		Cable length 2.5 m	30931	KMC-1-24DC-2,5-LED
		Cable length 5 m	30933	KMC-1-24DC-5-LED
		Cable length 10 m	193459	KMC-1-24-10-LED
	Operating voltage up to 240 V	Cable length 0.6 m	3579466	NEBV-A1W3-K-0.6-N-LE3
		Cable length 2.5 m	30932	KMC-1-230AC-2,5
Cable length 5 m		30934	KMC-1-230AC-5	
	Electrical connection 2, M12x1, A-coded Operating voltage 24 V DC, signal status display with LED	Cable length 0.3 m	3679771	NEBV-A1W3F-P-K-0.3-N-M12W3
		Cable length 0.6 m	3679772	NEBV-A1W3F-P-K-0.6-N-M12W3
	Electrical connection 2, M12x1, A-coded Operating voltage up to 240 V	Cable length 0.3 m	3579461	NEBV-A1W3-K-0.3-N-M12W3
		Cable length 0.6 m	3579462	NEBV-A1W3-K-0.6-N-M12W3

Solenoid coils MD-2

Type codes

FESTO

		MD-2	—	24VDC	—	PA					
Type											
MD-2	Solenoid coil with knurled nut M8x0.75										
Operating voltage											
24VDC	24 V DC										
110VAC	110 V AC										
230VAC	230 V AC										
Electrical connection											
PA	Connection pattern to EN 175301-803, type A										

Solenoid coils MD-2

Technical data

FESTO

 Voltage
 24 V DC
 110, 230 V AC

 Temperature range
 -20 ... +50 °C

- Can be replaced without interrupting the pneumatic circuit
- Connection pattern to EN 175301-803, type A



General technical data

Type of mounting	Via knurled nut
Max. tightening torque of fitting [Nm]	0.5
Mounting position	Any
Product weight [g]	110

Materials

Solenoid coil	Duroplast, copper, steel
Winding	Copper

Electrical data

Electrical connection	Plug pins with connection pattern to EN 175301-803, type A
Permissible voltage fluctuations [%]	-10 / +10
Duty cycle [%]	100
Degree of protection to EN 60529	IP65 with plug socket

Characteristic coil data

Operating voltage	24 V DC	110 V AC	230 V AC
Power [W]	4.3	–	–
Pick-up power, 50 Hz [VA]	–	14.5	14.5
Holding power, 50 Hz [VA]	–	10.5	10.5
Power factor cos(phi)	–	0.7	0.7
Frequency [Hz]	–	50/60	50/60
Permissible frequency fluctuations [%]	–	-10 / +10	-10 / +10

Operating and environmental conditions

Operating voltage	24 V DC	110 V AC	230 V AC
Ambient temperature [°C]	-20 ... 50	-20 ... 50	
CE mark (see declaration of conformity) ¹⁾	–	To EU Low Voltage Directive	

1) Additional information www.festo.com/sp → Certificates.

Solenoid coils MD-2

Technical data

FESTO

Dimensions

Download CAD data → www.festo.com

1

 Knurled nut M8xQ75

2

 Plug pattern to
EN 175301-803, type A

3

 Solenoid coil

Type	B1	H1	H2	H3	L1	L2
MD-2-...	30	29.5	34.3	15.3	35.5	14.7

Ordering data				
	Description		Part No.	Type
Solenoid coil				
	Without plug socket, connection pattern to EN 175301-803, type A	24 V DC	549903	MD-2-24VDC-PA
		110 V AC	549904	MD-2-110VAC-PA
		230 V AC	549905	MD-2-230VAC-PA
Plug socket				
	3-pin, square design, connection pattern to EN 175301-803, type A		550067	MSSD-N

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