

Solenoid coil VACN

FESTO



Type code

001	Series	
VACN	Solenoid coil VACN	

002	Solenoid coil type	
H1	Solenoid coil H1 for armature tube 14 mm	
N	Solenoid coil N for armature tube 9 mm	

003	Electrical connection	
A1	Plug pattern type A, to EN 175301-803	
K1	Cable	
K11	Cable with insulating conduit connection	
R3	Single plug M12 A-coded, according to EN 61076-2-101	
R4	Single plug M12 A-coded, pin assignment according to DESINA	

004	Nominal operating voltage	
1	24 V DC	
2A	110 V AC/50-60 Hz	
3A	230 V AC/50-60 Hz	
16B	120 V AC/60 Hz and 110V AC/50-60 Hz	

005	Cable length [m]	
0.5	0.5	
10	10	

006	EU certification	
	None	
EX2	II 3GD	
EX4	II 2GD	

007	Certification	
	None	
U4	Class1 Div1 to NEC 500	

008	Type of ignition protection	
	None	
A	Intrinsically safe	
M	Encapsulation	
N	Non-sparking	

Datasheet

General technical data - Solenoid coils N for Armature tube 9 mm, with electrical connection form A



Electrical connection	Type A, To DIN EN 175301-803
Type of actuation	Electric
Type of mounting	Via knurled nut
Mounting position	optional

Electrical data - Solenoid coils N for Armature tube 9 mm, with electrical connection form A

Electrical data – Solenoid coils for miniature table 9 mm, with electrical connection form A							
Nominal operating voltage	24 V DC			230 V AC/50-60 Hz		120 V AC/60 Hz and 110V AC/50-60 Hz	
EU certification	None	II 3GD	II 2GD	None	II 3GD	None	II 3GD
Characteristic coil data	24 V DC: 0.7 W	24 V DC: 2.1 W	–	230 V AC: 50 Hz, pick-up power 6.2 VA, holding power 3.7 VA, 230 V AC: 60 Hz, pick-up power 4.9 VA, holding power 2.9 VA	230 V AC: 50 Hz, pick-up power 6.9 VA, holding power 4.1 VA, 230 V AC: 60 Hz, pick-up power 5.4 VA, holding power 3.3 VA	110 V AC: 50 Hz, pick-up power 5.2 VA, holding power 3.1 VA, 110 V AC: 60 Hz, pick-up power 4.2 VA, holding power 2.5 VA	110 V AC: 50 Hz, pick-up power 6.9 VA, holding power 4.1 VA, 110 V AC: 60 Hz, pick-up power 5.4 VA, holding power 3.2 VA
Max. input voltage U_i	–		28 V	–			
Max. input current I_i	–		115 mA	–			
Required current consumption	–		27 mA	–			
Effective internal capacitance C_i	–		Negligibly low	–			
Permissible voltage fluctuations	+/- 10%		–	+/- 10%			
Immunity to surge	–			4 kV	–	2.5 kV	–
Duty cycle	100%						
Insulation material class	F						
Insulation material class of enamelled wire	F	H		F	H	F	H
Degree of protection	IP65						
Pollution degree	–			3	–	3	–

Datasheet

ATEX - Solenoid coils N for Armature tube 9 mm, with electrical connection form A

EU certification	None	II 3GD	II 2GD
ATEX category gas	–	II 3G	II 2G
Explosion ignition protection type for gas	–	Ex nA IIC T5/T4 X Gc	Ex ia IIC/IIB T6/T4 Gb
ATEX category dust	–	II 3D	II 2D
Explosion ignition protection type for dust	–	Ex tc IIIC T95°C/T105°C X Dc	Ex tb IIIC T80°C/T130°C Db
Explosion ambient temperature	–	-20°C ≤ Ta ≤ +60°C	T4, T130°C: -40°C ≤ Ta ≤ +85°C T6, T80°C: -40°C ≤ Ta ≤ +50°C
Explosion protection certification outside the EU	–	EPL Dc (GB); EPL Gc (GB)	EPL Db (BR); EPL Db (CN); EPL Db (GB); EPL Db (IEC-EX); EPL Gb (BR); EPL Gb (CN); EPL Gb (GB); EPL Gb (IECEx)
Certificate issuing authority	DNV TAA000011J		CCC 2021322307003993 DNV 15.0188 DNV TAA000011J GYJ21.1326 IECEx PTB 15.0013 PTB 09 ATEX 2043

Materials - Solenoid coils N for Armature tube 9 mm, with electrical connection Form A

Material housing	Polymer, Steel
Material winding	Copper
Material electrical contact	Brass
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364-B2-L

Operating and environmental conditions - Solenoid coils N for Armature tube 9 mm, with electrical connection form A

Nominal operating voltage	24 V DC			230 V AC/50-60 Hz		120 V AC/60 Hz and 110V AC/50-60 Hz	
EU certification	None	II 3GD	II 2GD	None	II 3GD	None	II 3GD
Ambient temperature	-20 ... 60°C		-20 ... 50°C	-20 ... 60°C			
Corrosion resistance class CRC ¹⁾	2 - Moderate corrosion stress						
CE mark (see declaration of conformity) ²⁾	–	To EU Explosion Protection Directive (ATEX)		To EU Low Voltage Directive	To EU Explosion Protection Directive (ATEX)	To EU Low Voltage Directive	To EU Explosion Protection Directive (ATEX)
UKCA marking (see declaration of conformity)	–	To UK EX instructions		To UK regulations for electrical equipment	To UK EX instructions	To UK regulations for electrical equipment	To UK EX instructions
Maritime classification ³⁾	See certificate						

1) More information www.festo.com/x/topic/kbk2) More information www.festo.com/catalogue/... Support/Downloads.3) More information www.festo.com/catalogue/... Support/Downloads.

Datasheet

General technical data - Solenoid coils N for Armature tube 9 mm, with electrical connection plug M12x1, A-coded



Electrical connection 1, number of connections/cores	2	4
Conforms to standard	ISO 20401	DESINA
Electrical connection 1, connector system	M12x1, A-coded to EN 61076-2-101	
Electrical connection 1, connection type	Plugs	
Electrical connection 1, type of mounting	Screw-type lock	
Type of actuation	Electric	
Type of mounting	Via knurled nut	
Mounting position	optional	
Signal status display	LED	

Electrical data - Solenoid coils N for Armature tube 9 mm, with electrical connection plug M12x1, A-coded

Characteristic coil data	24 V DC: 2.7 W
Permissible voltage fluctuations	+/- 10%
Duty cycle	100%
Insulation material class	F
Insulation material class of enamelled wire	H
Degree of protection	IP65
Pollution degree	3

Materials - Solenoid coils N for Armature tube 9 mm, with electrical connection plug M12x1, A-coded

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

Operating and ambient conditions – Solenoid coils N for armature tube 9 mm, with electrical connection plug M12x1, A-coded

Ambient temperature	-20 ... 60°C
Corrosion resistance class CRC ¹⁾	2 - Moderate corrosion stress

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

Datasheet

General technical data - Solenoid coils N for Armature tube 9 mm, with electrical connection cable



EU certification	None	II 2GD
Electrical connection	Cable	
Cable diameter	–	7 mm
Cable length	0.61 m	3 m; 10 m
Type of actuation	Electric	
Type of mounting	Via knurled nut	
Mounting position	optional	

Electrical data - Solenoid coils N for Armature tube 9 mm, with electrical connection cable

Nominal operating voltage	24 V DC		230 V AC/50-60 Hz		120 V AC/60 Hz and 110V AC/50-60 Hz	
EU certification	None	II 2GD	None	II 2GD	None	II 2GD
Characteristic coil data	24 V DC: 4.6 W	24 V DC: 2.6 W	230 V AC: 50 Hz, pick-up power 11.5 VA, holding power 8.0 VA	230 V AC: 50/60 Hz, power 2.1 VA	120 V AC: 60 Hz, pick-up power 10.0 VA, holding power 6.8 VA	110 V AC: 50/60 Hz, power 2.4 VA
Permissible voltage fluctuations	+/- 10%					
Duty cycle	100%					
Insulation material class	H	F	H	F	H	F
Insulation material class of enamelled wire	H					
Degree of protection	IP65					
Certification	Class1 Div1 to NEC 500	None	Class1 Div1 to NEC 500	None	Class1 Div1 to NEC 500	None

ATEX – Solenoid coils N for armature tube 9 mm, with electrical connection cable

Nominal operating voltage	24 V DC		
EU certification	None	II 2GD	
Cable length	0.61	3	10
ATEX category gas	–	II 2G	
Explosion ignition protection type for gas	AEx m II T4 Ex m II T4	Ex mb IIC T6 Gb	
ATEX category dust	–	II 2D	
Explosion ignition protection type for dust	–	Ex mb IIIC T80°C Db Ex mb tb IIIC T80°C Db	
Explosion ambient temperature	-20°C <= Ta <= +60°C	-20°C <= Ta <= +40°C (block) -20°C <= Ta <= +50°C (single)	
Explosion protection certification outside the EU	Class I, Div. 1 (CA); Class I, Div. 1 (US); Class I, Div. 2 (CA); Class II, Div. 1 (CA); Class II, Div. 1 (US); Class III, Div. 1 (CA); Class III, Div. 1 (US); EPL Gb (US)	EPL Db (BR); EPL Db (CN); EPL Db (GB); EPL Db (IEC-EX); EPL Gb (BR); EPL Gb (CN); EPL Gb (GB); EPL Gb (IECEX)	EPL Db (CN); EPL Db (GB); EPL Db (IEC-EX); EPL Gb (CN); EPL Gb (GB); EPL Gb (IECEX)
Certificate issuing authority	CSA 265489 DNV TAA000011J FM 3053936	CCC 2021322307003994 DNV 15.0189X/02 DNV TAA000011J GYJ21.1327X IECEx PTB 15.0016X PTB 14 ATEX 2027 X	

Datasheet

ATEX – Solenoid coils N for armature tube 9 mm, with electrical connection cable				
Nominal operating voltage	230 V AC/50-60 Hz		120 V AC/60 Hz and 110V AC/50-60 Hz	
EU certification	None	II 2GD	None	II 2GD
Cable length	0.61	3	0.61	3
ATEX category gas	–	II 2G	–	II 2G
Explosion ignition protection type for gas	AEx m II T4 Ex m II T4	Ex mb IIC T6 Gb	AEx m II T4 Ex m II T4	Ex mb IIC T6 Gb
ATEX category dust	–	II 2D	–	II 2D
Explosion ignition protection type for dust	–	Ex mb IIIC T80°C Db Ex mb tb IIIC T80°C Db	–	Ex mb IIIC T80°C Db Ex mb tb IIIC T80°C Db
Explosion ambient temperature	-20°C ≤ Ta ≤ +60°C	-20°C ≤ Ta ≤ +40°C (block) -20°C ≤ Ta ≤ +50°C (single)	-20°C ≤ Ta ≤ +60°C	-20°C ≤ Ta ≤ +40°C (block) -20°C ≤ Ta ≤ +50°C (single)
Explosion protection certification outside the EU	Class I, Div. 1 (CA); Class I, Div. 1 (US); Class I, Div. 2 (CA); Class II, Div. 1 (CA); Class II, Div. 1 (US); Class III, Div. 1 (CA); Class III, Div. 1 (US); EPL Gb (US)	EPL Db (BR); EPL Db (CN); EPL Db (GB); EPL Db (IEC-EX); EPL Gb (BR); EPL Gb (CN); EPL Gb (GB); EPL Gb (IECEx)	Class I, Div. 1 (CA); Class I, Div. 1 (US); Class I, Div. 2 (CA); Class II, Div. 1 (CA); Class II, Div. 1 (US); Class III, Div. 1 (CA); Class III, Div. 1 (US); EPL Gb (US)	EPL Db (BR); EPL Db (CN); EPL Db (GB); EPL Db (IEC-EX); EPL Gb (BR); EPL Gb (CN); EPL Gb (GB); EPL Gb (IECEx)
Certificate issuing authority	CSA 265489 DNV TAA000011J FM 3053936	CCC 2021322307003994 DNV 15.0189X/02 DNV TAA000011J GYJ21.1327X IECEx PTB 15.0016X PTB 14 ATEX 2027 X	CSA 265489 DNV TAA000011J FM 3053936	CCC 2021322307003994 DNV 15.0189X/02 DNV TAA000011J GYJ21.1327X IECEx PTB 15.0016X PTB 14 ATEX 2027 X

Materials - Solenoid coils N for Armature tube 9 mm, with electrical connection Cable						
Nominal operating voltage	24 V DC [1]		230 V AC/50-60 Hz [3A]		120 V AC/60 Hz and 110V AC/50-60 Hz [16B]	
EU certification	None	II 2GD	None	II 2GD	None	II 2GD
Material housing	Polymer, Steel					
Material winding	Copper					
Note on materials	RoHS-compliant					
LABS (PWIS) conformity	VDMA24364 zone III	VDMA24364-B2-L	VDMA24364 zone III	VDMA24364-B2-L	VDMA24364 zone III	VDMA24364-B2-L

Operating and environmental conditions - Solenoid coils N for Armature tube 9 mm, with electrical connection Cable		
Nominal operating voltage	24 V DC	
EU certification	None	II 2GD
Ambient temperature	-20 ... 60°C	
Corrosion resistance class CRC ¹⁾	2 - Moderate corrosion stress	
CE mark (see declaration of conformity) ²⁾	–	To EU Explosion Protection Directive (ATEX) In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	–	To UK EX instructions To UK RoHS instructions
Maritime classification ³⁾	See certificate	
Certificate issuing authority	CSA 265489 DNV TAA000011J FM 3053936	CCC 2021322307003994 DNV 15.0189X/02 DNV TAA000011J GYJ21.1327X IECEx PTB 15.0016X PTB 14 ATEX 2027 X

1) More information www.festo.com/x/topic/kbk2) More information www.festo.com/catalogue/... Support/Downloads.3) More information www.festo.com/catalogue/... Support/Downloads.

Datasheet

Operating and environmental conditions - Solenoid coils N for Armature tube 9 mm, with electrical connection Cable

Nominal operating voltage	230 V AC/50-60 Hz		120 V AC/60 Hz and 110V AC/50-60 Hz	
EU certification	None	II 2GD	None	II 2GD
Ambient temperature	-20 ... 60°C	-20 ... 50°C	-20 ... 60°C	-20 ... 50°C
Corrosion resistance class CRC ¹⁾	2 - Moderate corrosion stress			
CE mark (see declaration of conformity) ²⁾	—	To EU Explosion Protection Directive (ATEX) In accordance with EU RoHS Directive	—	To EU Explosion Protection Directive (ATEX) In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	—	To UK EX instructions To UK RoHS instructions	—	To UK EX instructions To UK RoHS instructions
Maritime classification ³⁾	See certificate			
Certificate issuing authority	CSA 265489 DNV TAA000011J FM 3053936	CCC 2021322307003994 DNV 15.0189X/02 DNV TAA000011J GYJ21.1327X IECEX PTB 15.0016X PTB 14 ATEX 2027 X	CSA 265489 DNV TAA000011J FM 3053936	CCC 2021322307003994 DNV 15.0189X/02 DNV TAA000011J GYJ21.1327X IECEX PTB 15.0016X PTB 14 ATEX 2027 X

1) More information www.festo.com/x/topic/kbk2) More information www.festo.com/catalogue/... Support/Downloads.3) More information www.festo.com/catalogue/... Support/Downloads.

General technical data - Solenoid coils H1 for Armature tube 14 mm, with electrical connection form A



Electrical connection	Type A, Plugs, To DIN EN 175301-803, Square design
Type of mounting	Via lock nut
Max. tightening torque for fitting	2 Nm
Mounting position	optional
Switching position indicator	no

Electrical data - Solenoid coils H1 for Armature tube 14 mm, with electrical connection form A

Nominal operating voltage	24 V DC	110 V AC/50-60 Hz	230 V AC/50-60 Hz
Characteristic coil data	24 V DC: 11.9 W	110 V AC: 50/60 Hz, pick-up power 36.0 VA, holding power 18.5 VA	230 V AC: 50/60 Hz, pick-up power 36.0 VA, holding power 18.9 VA
Permissible voltage fluctuations	+/- 10%		
Permissible frequency fluctuations	+/- 10%		
Immunity to surge	—	2.5 kV	4 kV
Duty cycle	100%		
Power factor (cos phi)	0.7		
Min. pick-up time	12 ms		
Degree of protection	IP65		
Note on degree of protection	In assembled state		
Pollution degree	—	3	

Datasheet

Materials - Solenoid coils H1 for Armature tube 14 mm, with electrical connection form A

Material solenoid coil	Copper, Steel, Thermoplastic
Material winding	Copper
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364 zone III

Operating and environmental conditions - Solenoid coils H1 for Armature tube 14 mm, with electrical connection form A

Nominal operating voltage	24 V DC	110 V AC/50-60 Hz	230 V AC/50-60 Hz
Ambient temperature	-20 ... 50°C		
Restrictions for environmental and media temperature	(with limited duty cycle), -20 ... 60° C		
Corrosion resistance class CRC ¹⁾	4 - Very high corrosion stress		
CE mark (see declaration of conformity) ²⁾	—	To EU Low Voltage Directive	
UKCA marking (see declaration of conformity)	—	To UK regulations for electrical equipment	

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

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

Dimensions

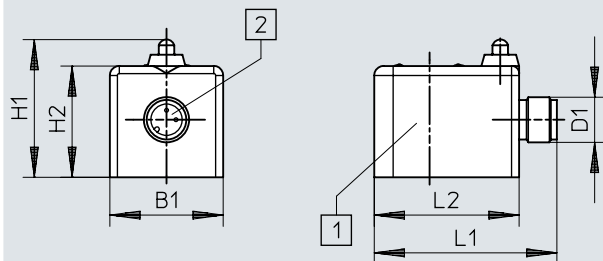
Dimensions – Solenoid coils VACN-N-A1 Download CAD data www.festo.com

[1] Plug pattern according to EN 175301-803, type A
[2] Solenoid coil
[3] Retaining screw M3

	B1	H1	H3	L1	L2	L4
VACN-N-A1-...	30	29,5	15,3	47,6	35,5	14,7

Dimensions

Dimensions – Solenoid coils VACN-N-R3-1

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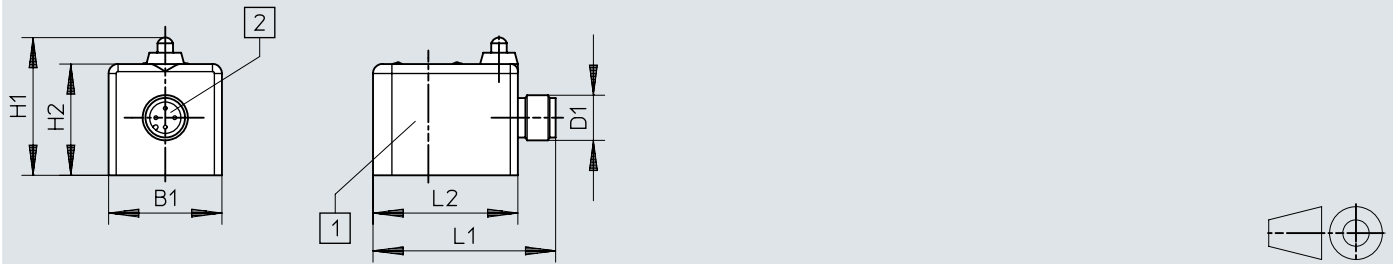
[1] Solenoid coil

[2] Plug M12x1, A-coded, 2-pin according to ISO 20401

	B1	D1	H1	H2	L1	L2
VACN-N-R3-1	30	M12x1	36,5	29,5	48,4	38,4

Dimensions

Dimensions – Solenoid coils VACN-N-R4-1 [Download CAD data](#) www.festo.com

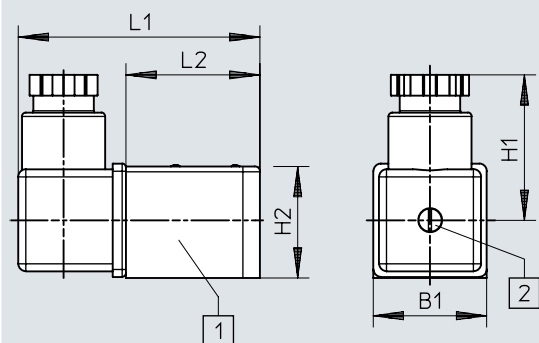


- [1] Solenoid coil
- [2] Plug M12x1, A-coded, 4-pin according to Desina

	B1	D1	H1	H2	L1	L2
VACN-N-R4-1	30	M12x1	34,4	29,5	48,4	38,4

Dimensions

Dimensions – Solenoid coils VACN-N-A1-...-EX2-N

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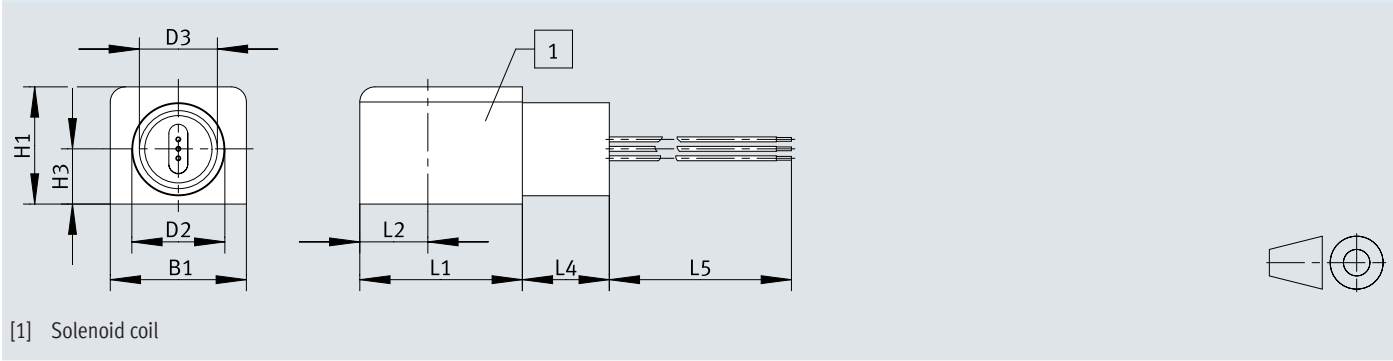
- [1] Solenoid coil
[2] Retaining screw M3



	B1	H1	H2	L1	L2
VACN-N-A1-...-EX2-N	30	38,5	29,5	64	35,5

Dimensions

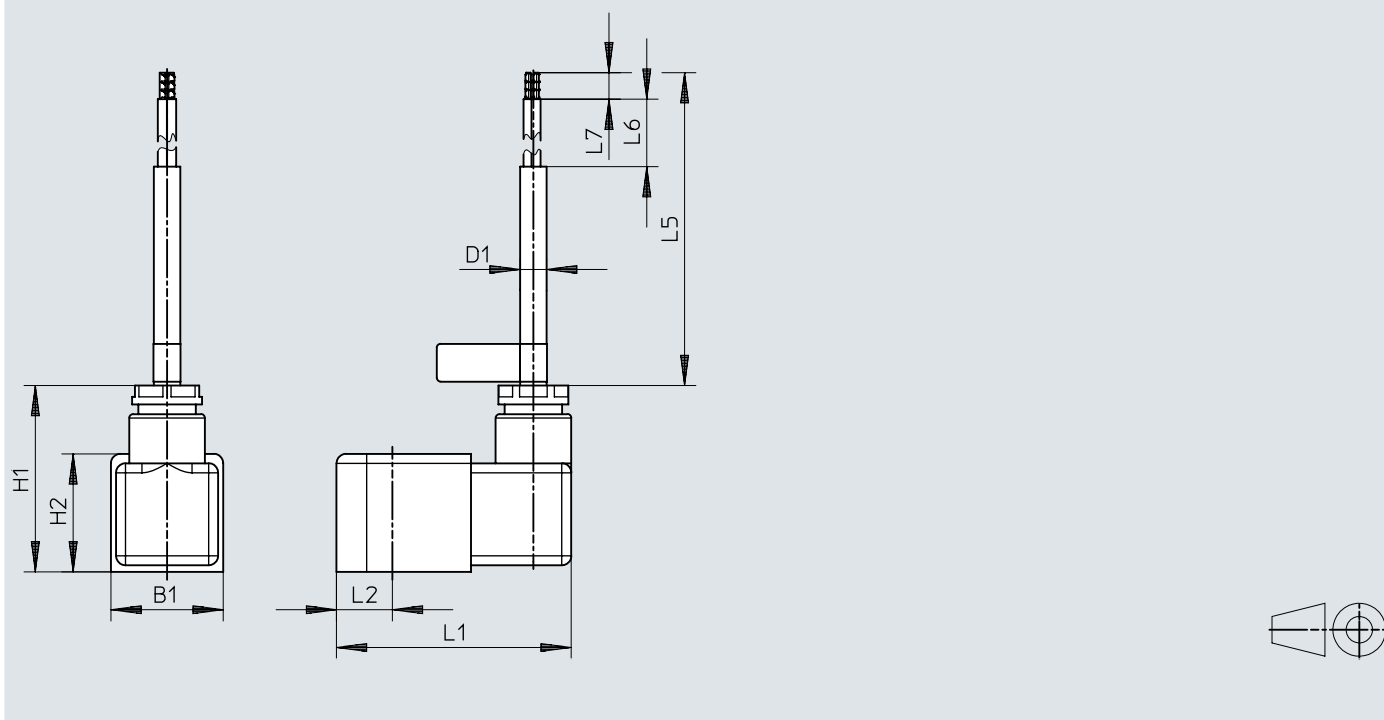
Dimensions – Solenoid coils VACN-N-K11...-U4-M Download CAD data www.festo.com



	B1 +0,2 -0,5	D2 ø	D3	H1 +0,35 -0,15	H3	L1	L2	L4	L5 ±10
VACN-N-K11-...	36	24,6	1/2NPT	31	14,5	43	18	23	610

Dimensions

Dimensions – Solenoid coils VACN-N-K1-...-EX4-M

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	B1	D1	H1	H2	L1	L2	L5	L6	L7
VACN-N-K1-1-EX4-M	29,7	7	49,3	31,3	67	14,8	3000	43	7
VACN-N-K1-1-10-EX4-M	29,7	7	49,3	31,3	67	14,8	10000	43	7
VACN-N-K1-16B-EX4-M	29,7	7	49,3	31,3	67	14,8	3000	43	7
VACN-N-K1-3A-EX4-M	29,7	7	49,3	31,3	67	14,8	3000	43	7

Dimensions

Dimensions – Solenoid coils VACN-N-A1...-EX4-A

[Download CAD data](#) www.festo.com

[1] Solenoid coil
[2] Retaining screw M3

	B1	H1	H2	L1	L2
VACN-N-A1...-EX4-A	30	38,5	29,5	67,7	39,2

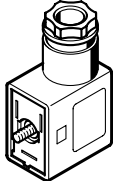
Ordering data

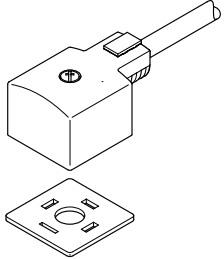
Ordering data - Solenoid coils N for Armature tube 9 mm, with electrical connection plug						
Nominal operating voltage	Electrical connection	Conforms to standard	EU certification	Product weight	Part no.	Type
	Single plug M12 A-coded, according to EN 61076-2-101	ISO 20401		100 g	8104526	VACN-N-R3-1
	Single plug M12 A-coded, pin assignment according to DESINA	DESINA			8104527	VACN-N-R4-1
24 V DC	Plug pattern type A, to EN 175301-803		None	95 g	8029144	VACN-N-A1-1
230 V AC/50-60 Hz			II 3GD	114 g	8029136	VACN-N-A1-1-EX2-N
			II 2GD		8029139	VACN-N-A1-1-EX4-A
			None		8029135	VACN-N-A1-3A
120 V AC/60 Hz and 110V AC/50-60 Hz			II 3GD	95 g	8029138	VACN-N-A1-3A-EX2-N
			None		8029134	VACN-N-A1-16B
			II 3GD		8029137	VACN-N-A1-16B-EX2-N

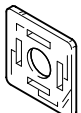
Ordering data - Solenoid coils N for Armature tube 9 mm, with electrical connection cable						
Nominal operating voltage	Electrical connection	EU certification	Cable length	Product weight	Part no.	Type
24 V DC	Cable	II 2GD	3 m	353 g	8029143	VACN-N-K1-1-EX4-M
			10 m	762 g	8141606	VACN-N-K1-1-10-EX4-M
	Cable with insulating conduit connection	None	0.61 m	207 g	8029146	VACN-N-K11-1-0.5-U4-M
230 V AC/50-60 Hz	Cable	II 2GD	3 m	353 g	8029141	VACN-N-K1-3A-EX4-M
	Cable with insulating conduit connection	None	0.61 m	207 g	8029140	VACN-N-K11-3A-0.5-U4-M
120 V AC/60 Hz and 110V AC/50-60 Hz	Cable	II 2GD	3 m	353 g	8029142	VACN-N-K1-16B-EX4-M
	Cable with insulating conduit connection	None	0.61 m	207 g	8029145	VACN-N-K11-16B-0.5-U4-M

Ordering data - Solenoid coils H1 for Armature tube 14 mm, with electrical connection plug					
Nominal operating voltage	Electrical connection	EU certification	Product weight	Part no.	Type
24 V DC	Plug pattern type A, to EN 175301-803	None	150 g	8022877	VACN-H1-A1-1
110 V AC/50-60 Hz				8022878	VACN-H1-A1-2A
230 V AC/50-60 Hz				8022879	VACN-H1-A1-3A

Accessories

Plug socket				
	Electrical connection	Cable fitting	Part no.	Type
	3-pin, Angled socket, Type A, To DIN EN 175301-803, Square design	M16	539709	MSSD-C-M16
	3-pin, Angled socket, Type A, To DIN EN 175301-803, Square design MSC, Square design MSN1	Pg 9	34583	MSSD-C

Connecting cable							
	Electrical connection	Electrical connection 1, connector system	Nominal operating voltage DC	Nominal operating voltage AC	Cable length	Part no.	Type
		Connection pattern type A based on EN 175301-803	24 V	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
			110 V	110 V	0.3 m	3679772	NEBV-A1W3F-P-K-0.6-N-M12W3
					0.6 m	3579461	NEBV-A1W3-K-0.3-N-M12W3
			230 V	230 V	0.6 m	3579462	NEBV-A1W3-K-0.6-N-M12W3
					0.6 m	3579466	NEBV-A1W3-K-0.6-N-LE3
	Socket, Type A				2.5 m	30932	KMC-1-230AC-2,5
					5 m	30934	KMC-1-230AC-5
			24 V		2.5 m	30931	KMC-1-24DC-2,5-LED
					5 m	30933	KMC-1-24DC-5-LED
					10 m	193459	KMC-1-24-10-LED

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