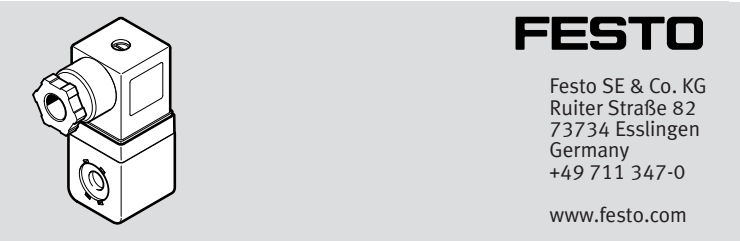


VACN-N-A1-...-EX2-N

Solenoid coil



Operating instructions

8247293
2026-01b
[8247295]



Original instructions

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1 Identification EX

Marking		
	II 3G II 3D	Ex ec IIC T5 Gc X Ex tc IIIC T95°C Dc X

Tab. 1: Identification EX

2 Applicable documents

NOTICE

Technical data for the product can have different values in other documents. For operation in an explosive atmosphere, the information in this document always have priority.

All available documents for the product → www.festo.com/sp.

3 Certified products

Voltage	Type	Part no.
24 V DC	VACN-N-A1-1-EX2-N	8029136
110/120 V AC	VACN-N-A1-16B-EX2-N	8029137
230 V AC	VACN-N-A1-3A-EX2-N	8029138

Tab. 2: Certified solenoid coils

4 Safety

4.1 Safety instructions

- The device can be used under the stated operating conditions in zone 2, explosive gas atmospheres, and in zone 22, explosive dust atmospheres.
- Prevent short circuit or interruption resulting from bending the connecting cable too tightly.
- All work must be carried out outside of explosive areas.
- Work on the product may only be carried out by qualified personnel who can evaluate the work and detect dangers.
- Use the device in its original status, without any unauthorised modifications.
- Do not commission the solenoid coil until after mounting.
- Fit a suitable valve with a suitable armature guide tube → www.festo.com/catalogue.

4.2 Intended use

The solenoid coil is an actuator for Festo valves.

4.3 Specific conditions of use

- Do not disconnect or open when powered.
- Protect the device from mechanical impact.
- Protect the device from UV radiation.
- Use only metal anchor guides.
- Use an additional strain relief for cables upstream of the plug.
- Select suitable mounting clearances from external heat sources to prevent the device from overheating. Observe minimum clearances with block mounting of devices of the same type → 7 Technical data.
- Prevent electrostatic charging by taking appropriate installation and cleaning measures.
- Prevent processes that generate high charges.

5 Function

When switching on the voltage, the solenoid is energised, and the valve is actuated.

6 Maintenance

WARNING

The discharge of electrostatically charged parts can lead to ignitable sparks. If used in group IIC:

- Only clean the device with a damp cloth.

- Repairs to the solenoid coil are not permitted.
- The device is maintenance-free.

7 Technical data

VACN-N-A1	-1-EX2-N	-16B-EX2-N	-3A-EX2-N
Certificates, declaration of conformity → www.festo.com/sp			
Nominal voltage U _N	[V DC]	24	–
	[V AC]	–	110 (50 Hz) 110 (60 Hz) 120 (60 Hz) 230 (50 Hz) 230 (60 Hz)
Rated current	[mA]	87	36 28 33 17.5 13.5
Rated output	[W]	2.1	4.0 3.1 4.0 4.0 3.1
Minimum clearance for block mounting devices of the same type	[mm]	0	30 0 30 30 0
Ambient temperature	[°C]	–20 ≤ Ta ≤ +50	
Degree of protection		IP65	
Duty cycle		100% in continuous operation	

Tab. 3: Technical Data