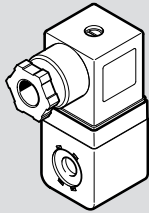


VACN-N-A1-...-EX2-N
Solenoid coil



FESTO

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Operating instruction

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Translation of the original instructions

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1 Identification EX

Identification	
	II 3G Ex nA IIC T5/T4 X Gc II 3D Ex tc IIIC T95°C/T105°C X Dc

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 technical data 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 potentially 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.

4.2 Intended use

The solenoid coil is an actuator for Festo valves.

4.3 Identification X: special conditions

- Do not disconnect or open when powered.
- Use an additional strain relief before the plug connector.
- Protect the device from mechanical impact.
- Ambient temperature $-20\text{ °C} \leq T_a \leq +50\text{ °C}$:
Ex nA IIC T5 X Gc
Ex tc IIIC T95 °C X Dc
- Ambient temperature $-20\text{ °C} \leq T_a \leq +60\text{ °C}$:
Ex nA IIC T4 X Gc
Ex tc IIIC T105 °C X Dc

5 Function

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

6 Commissioning

 **WARNING**

The discharge of electrostatically charged parts can lead to ignitable sparks.

- Prevent electrostatic charging by taking appropriate installation and cleaning measures.
- Include the device in the system equipotential bonding.

7 Maintenance and care

 **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.

8 Technical data

VACN-...-EX2-N		
Assembly	Individual mounting	
Degree of protection	IP65	
Duty cycle	100% in continuous operation	
Nominal voltage U _N		
– VACN-N-A1-1-EX2-N	[V DC] [W]	24 2.1
– VACN-N-A1-16B-EX2-N	[V AC] [Hz] [VA]	110 50 ... 60 4.1
– VACN-N-A1-3A-EX2-N	[V AC] [Hz] [VA]	120 50 ... 60 4.1
Ambient temperature		
– Ex nA IIC T5 X Gc – Ex tc IIIC T95°C X Dc	[°C]	$-20 \leq T_a \leq +50$
– Ex nA IIC T4 X Gc – Ex tc IIIC T105°C X Dc	[°C]	$-20 \leq T_a \leq +60$

Tab. 3: Technical data