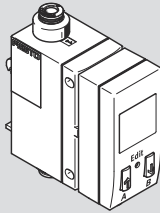


SFAB-...-EX2

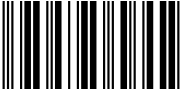
Flow sensor



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8261879

Addendum document | Operating conditions EX

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Original instructions

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1 Identification EX

Marking		
	II 3G II 3D	Ex ec IIC T5 Gc X Ex tc IIIB T80°C Dc X

Tab. 1: Identification EX

2 Applicable documents

Document	Product
Operating instructions	Flow sensor SFAB

Tab. 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

Type	
Flow sensor	SFAB-...-EX2-... Variants in accordance with declaration of conformity ➔ www.festo.com/sp

Tab. 3: Certified products

Type		Part number
Connecting cable	NEBA-M12G5-U-2.5-N-LE5	8078242
	NEBA-M12G5-U-5-N-LE5	8078243
	NEBA-M12W5-U-2.5-N-LE5	8078251
	NEBA-M12W5-U-5-N-LE5	8078252
Adapter plate	SDE1-...-W	194297
Safety clip	NEAU-M12-GD	548068

Tab. 4: Approved Accessories

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.
- Work on the product may only be carried out by qualified personnel who can evaluate the work and detect dangers.
- All work must be carried out outside of explosive areas.
- Use the device in its original status, without any unauthorised modifications.
- Draw in of the operating medium outside the explosive area.
- Only operate the device with a suitable operating medium ➔ Technical data
- Use approved accessories.
- Observe the product labelling.
- Repairs to the product are not permissible.

4.2 Intended use

The flow sensor monitors the flow rate, volume and temperature of gaseous media in piping systems or terminals in industry.

4.3 Specific conditions of use

- Do not disconnect when powered.
- Danger of electrostatic discharge.
- Install the device in a housing with at least IP54. The housing must conform to the requirements of IEC 60079-0.
- Protect the device from UV radiation.

5 Function

The SFAB uses a thermal measurement method. This determines the amount of heat that is removed from a heated area of the sensor by the medium as it flows past. Through the amount of heat removed, the flow rate or accumulated air consumption is determined and shown on the display.

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.

⚠ WARNING

Electrically generated sparks can ignite an explosive atmosphere and cause an explosion.

- Do not disconnect or open when powered.

NOTICE

Escaping exhaust air can swirl up dust and create an explosive dust atmosphere.

- Connect the free line ends outside the potentially explosive zone or in a type of (ignition) protection.
- Prevent disconnection of the M12 plug connector with a safety clip NEAU-M12-GD.
- Include the adapter plate separately in the system equipotential bonding.

7 Technical data

Operating conditions		
Certificates, declaration of conformity		➔ www.festo.com/sp
Operating pressure	[MPa]	0 ... 1
	[bar]	0 ... 10
	[psi]	0 ... 145
Operating voltage range DC	[V]	15 ... 30
Max. output current	[mA]	100
analogue output		0 ... 10 V
		4 ... 20 mA
Ambient temperature	[°C]	0 ... 50
Temperature of medium	[°C]	0 ... 50
Operating medium		– Compressed air to ISO 8573-1:2010 [6:4:4] – Nitrogen
Operating medium		– Compressed air to ISO 8573-1:2010 [7:4:4] – Nitrogen
Degree of protection in accordance with EN 60529		IP 54
Protection class		III
Electrical connection		M12 x 1, A-coded in accordance with EN 61076-2-101
Mounting position		Any
Plug tightening torque	[Nm]	≤ 0.3
Information on materials		All alloys used contain less than 7.5 %magnesium (Mg).

Tab. 5: Technical Data