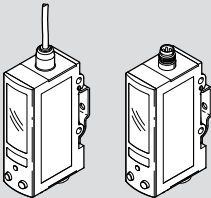


SDE3-...-EX2

Pressure sensor



FESTO

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Addendum document | Operating conditions EX

8241133
2025-07h
[8241135]



Original instructions

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1 Identification EX

Marking		
	II 3G II 3D	Ex ec IIC T6 Gc X Ex tc IIIC T80°C Dc X 0°C ≤ Ta ≤ +50°C

Tab. 1: Identification EX

2 Applicable documents

Document	Product
Operating instruction	Pressure sensor SDE3

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	
Pressure sensor	SDE3-...-EX2-... Variants in accordance with declaration of conformity ➔ www.festo.com/sp

Tab. 3: Certified products

Type		Part number
Adapter plate	SXE3-W	540214
Connecting cable	NEBA-M8W4-U-2.5-N-LE4	8078233
	NEBA-M8W4-U-5-N-LE4	8078234
	NEBA-M8G4-U-2.5-N-LE4	8078227
	NEBA-M8G4-U-5-N-LE4	8078228
	NEBA-M12W5-U-2.5-N-LE4	8078248
	NEBA-M12W5-U-5-N-LE4	8078249
	NEBA-M12G5-U-2.5-N-LE4	8078239
	NEBA-M12G5-U-5-N-LE4	8078240
Safety clip	NEAU-M8-GD	548067
	NEAU-M12-GD	548068

Tab. 4: Approved Accessories

4 Safety

4.1 Safety instructions

- 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.
- Draw in of the operating medium outside the explosive area.
- Use approved accessories.
- Observe the product labelling.

4.2 Specific conditions of use

- Do not disconnect the plug connector for the electrical connection when powered. Prevent the disconnection of the M8 plug connector with a safety clip NEAU-M8-GD. Prevent the disconnection of the M12 plug connector with a safety clip NEAU-M12-GD.
- Operate the pressure sensor in a control cabinet in accordance with the requirements of IEC 60079-0.
- The device may only be used in an area with minimum pollution degree 2 as defined in IEC 60664-1.
- Ambient temperature 0 °C ≤ Ta ≤ +50 °C.
- Block mounting is not permissible. When mounting several pressure sensors next to one other, observe a minimum distance of 20 mm.
- Avoid overheating of the device by cyclical compression of the compressed air. Ensure a minimum permissible duty cycle in case of pressure fluctuations. This applies: duty cycle [s] = differential pressure [bar]/2.
Example: ensure duty cycle is at least 5 s with a differential pressure of 10 bar.

5 Technical data

SDE3-...-EX2	Operating conditions
Certificates, declaration of conformity	➔ www.festo.com/sp
Ambient temperature [°C]	0 ≤ Ta ≤ +50
Operating voltage [V DC]	24 ± 10 %, PELV
Max. output current per output [mA]	20
Minimum permissible duty cycle with pressure changes [s]	Differential pressure [bar]/2
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [7:4:4]
Degree of protection	IP65 in accordance with EN 60529
Protection class	III according to DIN VDE 0106-1
Pollution degree	2
Electrical connection SDE3-...-K-...	Cable 2.5 m, 4-core, assignment in accordance with DIN EN 60 947-5-2
Electrical connection SDE3-...-M8 Connection	M8x1 plug, A-coded, assignment in accordance with EN 61076-2-104
Tightening torque [Nm]	≤ 0.3 Nm
Electrical connection SDE3-...-M12 Connection	M12x1 plug, A-coded, assignment in accordance with EN 61076-2-101
Tightening torque [Nm]	≤ 0.5 Nm

Tab. 5: Technical Data