

Proximity sensors SMPO-8E, for T-slot, pneumatic

FESTO



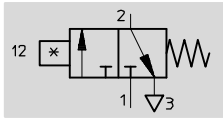
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Technical data

Function
3/2-way valve,
normally closed

- Pneumatic proximity sensor
- Magnetic measuring principle



Design		
Constructional design	For T-slot	
Type of mounting	Insertable in the slot from above	
	Via through-holes	
	Via accessories	
Connection direction	Lateral	
Reproducibility of switching point ¹⁾	[mm]	±0.2
Switching status display	Optical	

1) Only applicable to drives secured against rotation

Technical data		
Switching element function	3/2-way valve, normally closed	
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [6:4:4]	
Note on operating/pilot medium	Operation with lubricated medium not possible	
Operating pressure	[bar]	2 ... 8
Switch-on time	[ms]	22
Switch-off time	[ms]	52
Pneumatic connection	Female thread M5	
Protection class	IP65	

Operating and environmental conditions		
Ambient temperature	[°C]	–15 ... +60
Corrosion resistance class CRC ¹⁾	2	

1) Corrosion resistance class CRC 2 to Festo standard FN 940070
Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.

Materials		
Housing	Anodised aluminium	
	High-alloy steel	
	PA	
Note on materials	Free of copper and PTFE	
	RoHS-compliant	

Product weights [g]		
Pneumatic proximity sensor	11	

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Dimensions

Download CAD data → www.festo.com

Technical drawing of the SMPO-8E proximity sensor. The drawing includes two views: a front view (top) and a side view (bottom). The front view shows dimensions B1, B2, B3, B4, L1, L2, L3, L4, and callouts 1, 2, 3, and 4. The side view shows dimensions B5, B6, B7, H1, H2, H3, and callout 3. A legend on the right lists the callouts: 1 M5 for barbed fitting, 2 Yellow LED, 3 Max. tightening torque 0.6 Nm (NW 2.5), and 4 Mounting kit SMB-8E.

- 1 M5 for barbed fitting
- 2 Yellow LED
- 3 Max. tightening torque 0.6 Nm (NW 2.5)
- 4 Mounting kit SMB-8E

Dimensions	B1	B2	B3	B4	B5 ±0.3	B6 ±0.05	B7 ±0.2	H1	H2	H3	L1	L2	L3	L4
SMPO-8E	25	20.5	12.5	4.5	10.5	5.1	4.5	18	7.5	4.5	21	16	10.5	5

Ordering data		Part No.	Type
	Pneumatic connection		
	3/2-way valve, normally closed		
	Female thread M5	178563	SMPO-8E

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Accessories

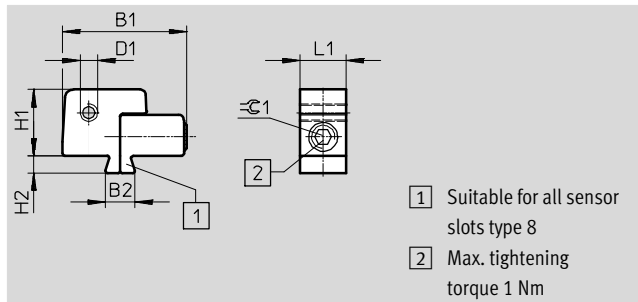
Mounting kit SMB-8E

Material:

Profile: Anodised aluminium,

RoHS-compliant

Screws: High-alloy stainless steel



Dimensions and ordering data									
For piston Ø	B1 +0.5/-1	B2 -0.2	D1	H1	H2 +0.2	L1 ±0.2	⌀	Part No.	Type
10 ... 125	21.5	5.1	M3	11.5	3	8	2.5	178230	SMB-8E

Mounting SMBZ-8-...

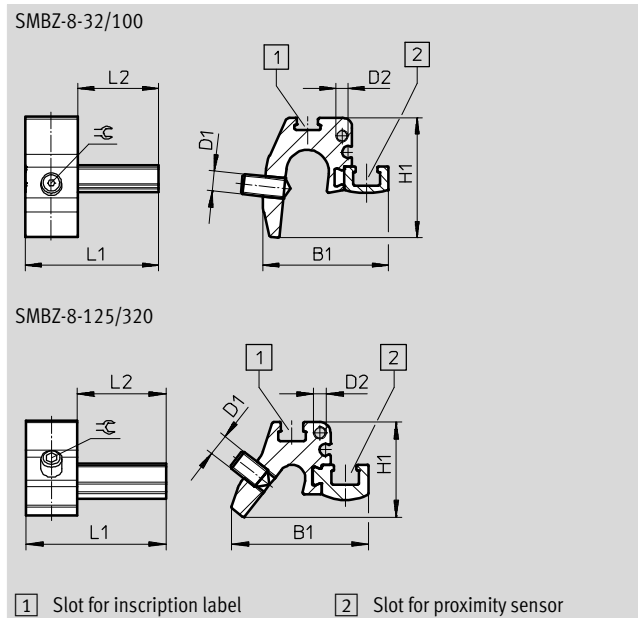
Materials:

Rail: Anodised wrought aluminium alloy

Screws: High-alloy stainless steel

Free of copper and PTFE

RoHS-compliant



Dimensions and ordering data									
For piston Ø	B1	D1	D2	H1	L1	L2	⌀	Part No.	Type
32 ... 100	31	M5	M3	30	33	20	1.5	537806	SMBZ-8-32/100
125 ... 320	32.3			22			2.5	537808	SMBZ-8-125/320

Ordering data				Technical data → Internet: qs	
		[mm]	Part No.	Type	
	Push-in fitting with connecting thread M5 for tubing O.D.	3	153302	QSM-M5-3	
		4	153304	QSM-M5-4	
		6	153306	QSM-M5-6	
	Push-in L-fitting with connecting thread M5 for tubing O.D.	3	153331	QSML-M5-3	
		4	153333	QSML-M5-4	
		6	153335	QSML-M5-6	

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