

Proximity switch SMPO-8E

FESTO



Type code

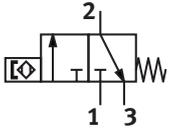
001	Series
SMPO	Proximity sensor

003	Sensor version
E	Mounting with accessories

002	Design type
8	For T-slot

Datasheet

General technical data



- 3/2-way valve, normally closed
- Pneumatic proximity sensor
- Magnetic measuring principle

Design	For T-slot
Measuring principle	Magnetic
Valve function	3/2
Pneumatic connection	M5
Operating medium	Compressed air to ISO 8573-1:2010 [6:4:4]
Note on operating and pilot medium	Lubricated operation not possible
Operating pressure	2 ... 8 bar
Ambient temperature	-15 ... 60°C
LABS (PWIS) conformity	VDMA24364-B2-L
RoHS status	RoHS compliant in accordance with EU directive
Exemption according to EU-RoHS annex III	Exemption 6c

Input signal/measuring element

Measuring principle	Magnetic
Reproducibility of switching value ¹⁾	+/-0.2 mm

¹⁾ Only applies to non-rotating drives.

Switching output

Reproducibility of switching value ¹⁾	+/-0.2 mm
Switching status indication	Optical
Switch-on time	22 ms
Switch-off time	52 ms

¹⁾ Only applies to non-rotating drives.

Display/operation

Switching status indication	Optical
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Mechanics

Type of mounting	With through-hole, With accessories, Insertable in the slot from above
Material housing	Aluminium, PA, Anodised, High-alloy stainless steel
Product weight	11 g

Immission/emission

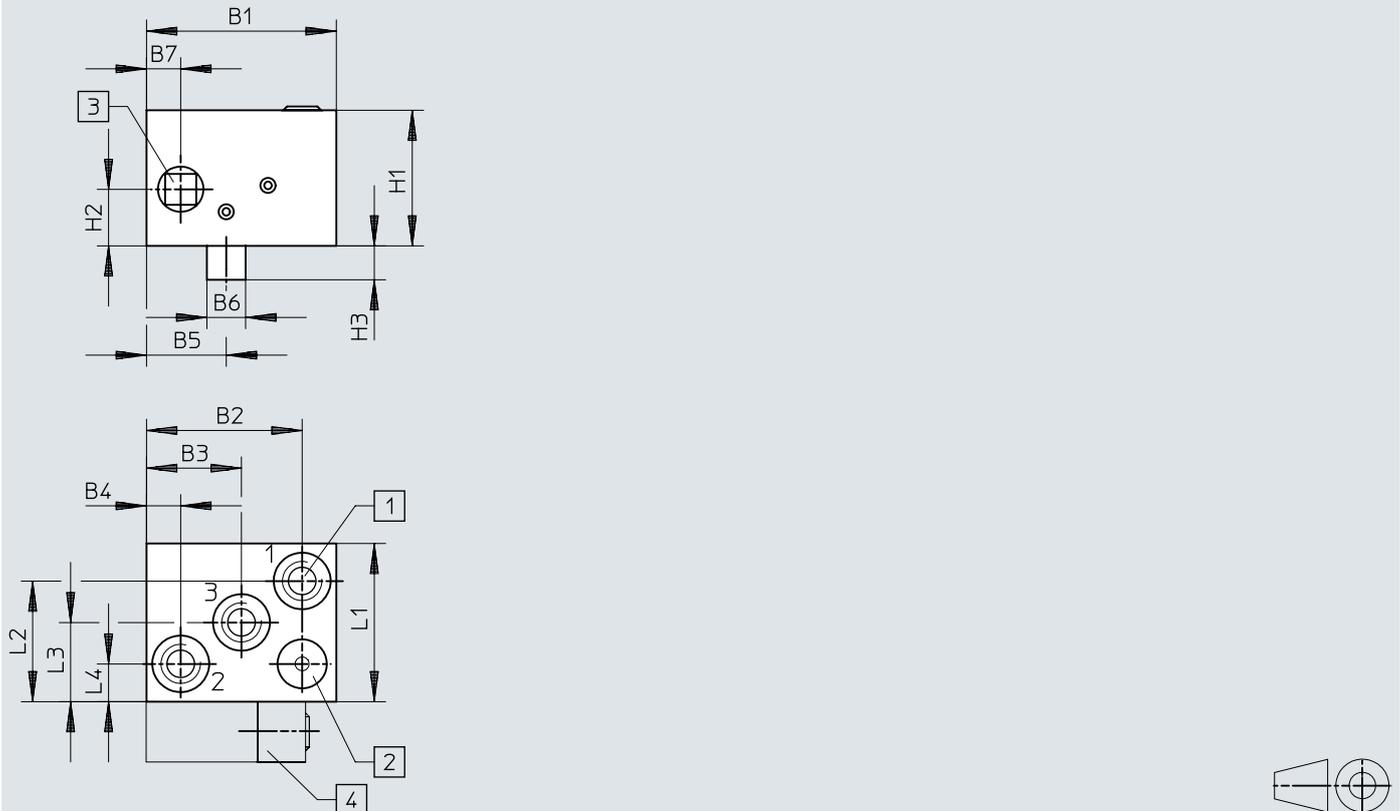
Degree of protection	IP65
Explosion protection	Zone 1 (ATEX), Zone 2 (ATEX), Zone 21 (ATEX), Zone 22 (ATEX)
ATEX declaration	For zone 1, 2, 21, 22
Corrosion resistance class CRC ¹⁾	2 - Moderate corrosion stress

¹⁾ More information: www.festo.com/x/topic/crc

Dimensions

Dimensions – Proximity switch SMPO-8E

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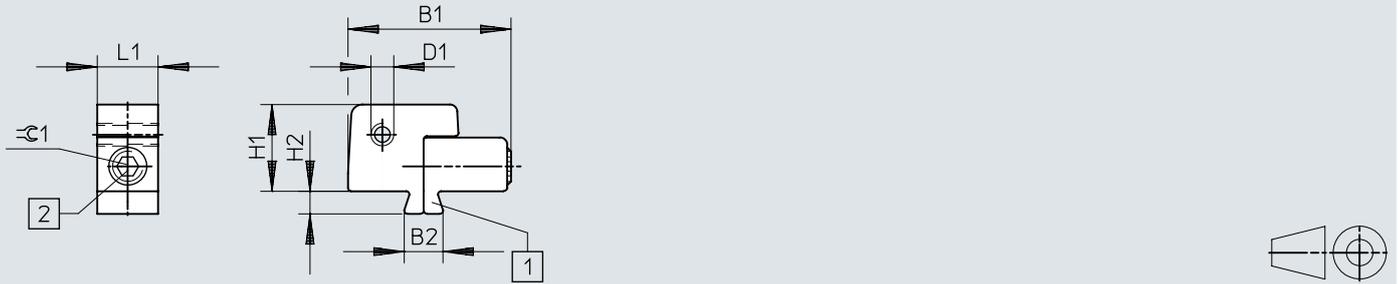


- [1] M5 for barbed fitting
- [2] Optical switching status display
- [3] Max. tightening torque 0.6 Nm (SW 2.5)
- [4] Mounting kit SMB-8E

	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

Dimensions

Dimensions – Mounting kit SMB-8E

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[1] Suitable for all sensor slots type 8

[2] Max. tightening torque 1 Nm

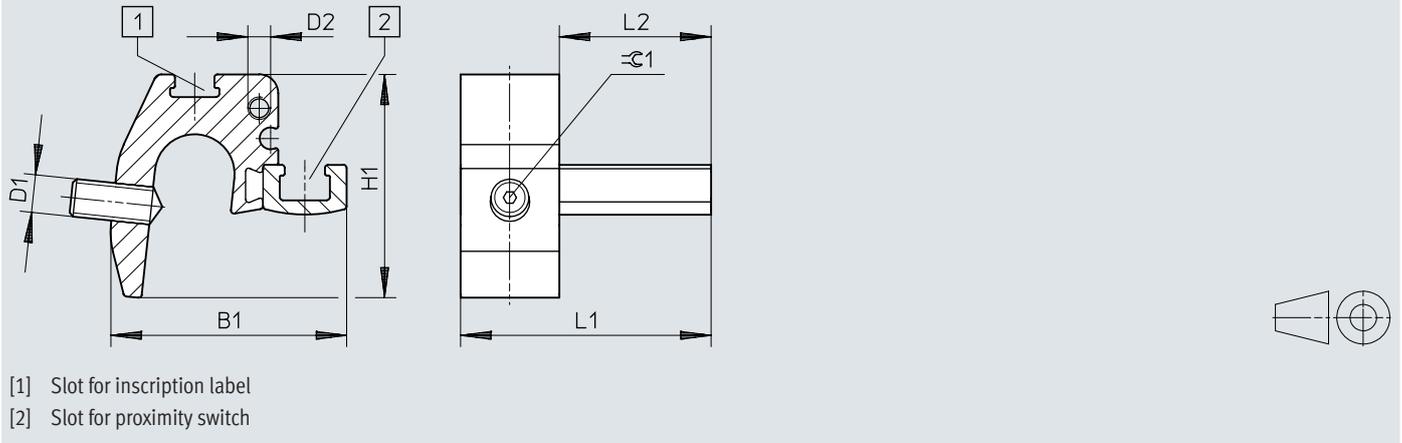
	1)	B1 +0,5/-1	B2 -0,2	D1	H1	H2 +0,2	L1 ±0,2	⊕
SMB-8E	10 ... 125	21,5	5,1	M3	11,5	3	8	2,5

1) For piston Ø

Dimensions

Dimensions – Mounting SMBZ-8-32/100

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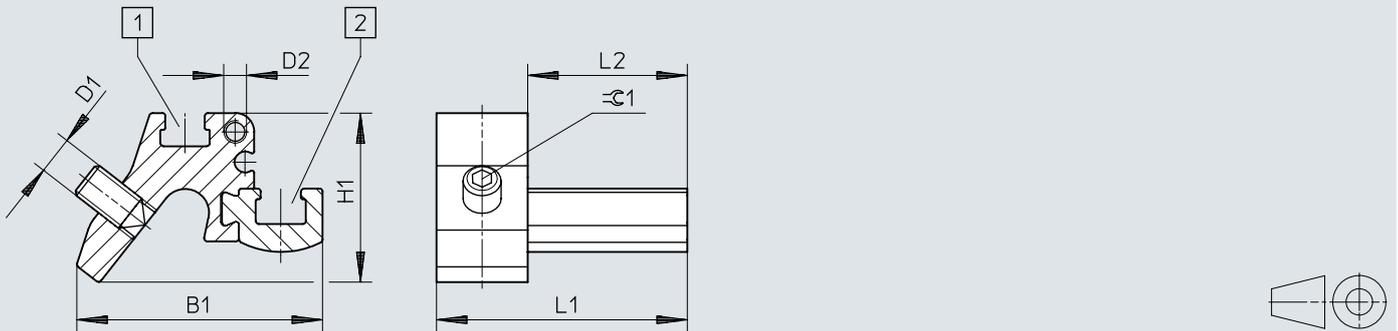


	1)	B1	D1	D2	H1	L1	L2	±0.1
SMBZ-8-32/100	32 ... 100	31	M5	M3	30	33	20	1,5

1) For piston Ø

Dimensions

Dimensions – Mounting SMBZ-8-125/320

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[1] Slot for inscription label

[2] Slot for proximity switch

	1)	B1	D1	D2	H1	L1	L2	$\varnothing 1$
SMBZ-8-125/320	125 ... 320	32,3	M5	M3	22	33	20	2,5

1) For piston \varnothing

Ordering data

Ordering data	Valve function	Pneumatic connection	Part no.	Type
	3/2	M5	178563	SMPO-8E

Accessories

Mounting kit SMB-8E					
	Material profile	Material screws	LABS (PWIS) conformity	Part no.	Type
	Aluminium, Anodised	High-alloy stainless steel	VDMA24364-B2-L	178230	SMB-8E

Mounting SMBZ-8					
	For piston diameter	Material housing	Corrosion resistance class CRC	Part no.	Type
	Ø32 - Ø100	Anodised wrought aluminium alloy	2 - Moderate corrosion stress	537806	SMBZ-8-32/100
	Ø125 - Ø320			537808	SMBZ-8-125/320

Push-in fitting					
	Design	Pneumatic connection, port 1	Pneumatic connection, port 2	Part no.	Type
	Straight design	Male thread M5	For tubing outer diameter of 3 mm	153302	QSM-M5-3
			For tubing outside diameter of 4 mm	153304	QSM-M5-4
			For tubing outside diameter of 6 mm	153306	QSM-M5-6

Push-in fitting					
	Design	Pneumatic connection, port 1	Pneumatic connection, port 2	Part no.	Type
	L-shape	Male thread M5	For tubing outer diameter of 3 mm	153331	QSML-M5-3
			For tubing outside diameter of 4 mm	153333	QSML-M5-4
			For tubing outside diameter of 6 mm	153335	QSML-M5-6