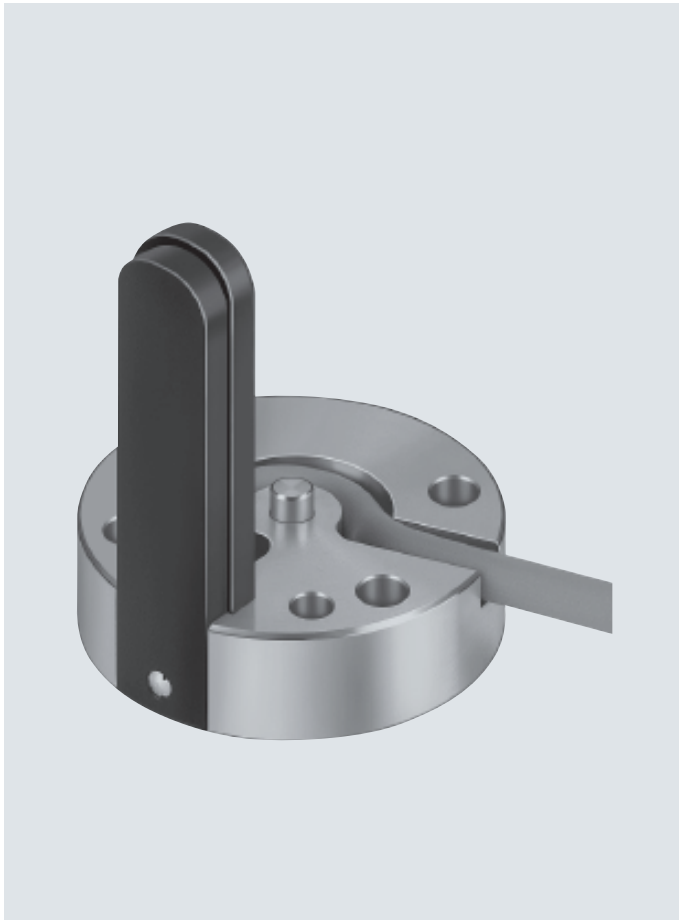


Product range overview



- Position sensors matched to Festo grippers
- Freely selectable switching points

Detailed product information

→ www.festo.com/catalogue/smh

Detailed product information

→ www.festo.com/catalogue/smh

Product range overview							
Design	Type of mounting	Measuring principle	Operating voltage range	Analogue output	Switching output	Switching element function	→ Page/Internet
Position sensor SMH-S1							
For grippers	Screwed onto gripper	Magnetic Hall	24 V DC	–	–	–	2
Signal converter SVE4							
For position sensor SMH-S1	Via mounting hole	–	10 ... 30 V DC	–	2x PNP	Switchable	sve4
		–			2x NPN		

Key features

The position sensor SMH-S1 is specifically designed for position sensing on Festo grippers. An analogue electrical signal is generated in the proximity switch according to the gripper position. The conversion to 3 digital output signals (corresponding to 3 gripper jaw positions) is performed using signal converters SVE4.



Note

Sensors that detect magnetic fields, such as position sensors SMH, must not be secured onto the drive using mountings made from ferritic materials, as this can lead to malfunction.

To ensure the position sensor functions correctly, the cable outlet and the tubing outlet must point in the same direction when installed.

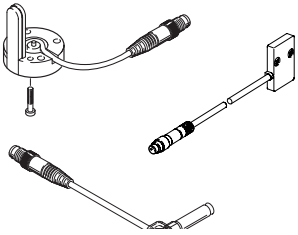
Type codes, technical data – Position sensors

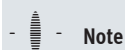
001	Series
SMH-S1	Position sensor for gripper

002	Gripper type
HGD	Three-point gripper DHDS
HGP	Parallel gripper DHPS
HGR	Radial gripper DHRS
HGW	Angle gripper DHWS
HGPP	Parallel gripper HGPP

003	Gripper size
06	6
10	10
16	16
32	32
10/12	10/12
20/25	20/25

Technical data		
Design		
Design	For grippers	
Type of mounting	Screwed onto gripper	
Electrical data		
Electrical connection	Cable with plug M8x1, 4-pin	
Cable length	[m]	0.5
Short circuit current rating	No	
Reverse polarity protection	No	
Degree of protection	IP65	
Measuring principle	Magnetic Hall	
Operating and environmental conditions		
Ambient temperature	[°C]	5 ... 60
CE marking (see declaration of conformity)	To EU EMC Directive	
Materials		
Housing	PA	
Cable sheath	TPE-U (PUR)	
Note on materials	Free of copper and PTFE	

Ordering data			
	Associated gripper	Part no.	Type
	DHDS-16-A	175713	SMH-S1-HGD16
	DHPS-06-A	175710	SMH-S1-HGP06
	DHRS-10-A	175712	SMH-S1-HGR10
	DHWS-10-A	175711	SMH-S1-HGW10
	HGPP-10, HGPP-12	189040	SMH-S1-HGPP1 0/12
	HGPP-16	189041	SMH-S1-HGPP16
	HGPP-20, HGPP-25	189042	SMH-S1-HGPP2 0/25
	HGPP-32	526895	SMH-S1-HGPP32

**Note**

For signal converters adapted to position sensors SMH-S1-HG...

→ Internet: sve4-hs.

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1 Festo Inc.
5300 Explorer Drive
Mississauga, ON L4W 5G4
Canada

Festo Customer Interaction Center
Tel: 1 877 463 3786
Fax: 1 877 393 3786
Email: customer.service.ca@festo.com



2 Festo Pneumatic
Av. Ceylán 3,
Col. Tequesquináhuac
54020 Tlalnepantla,
Estado de México

Multinational Contact Center
01 800 337 8669
ventas.mexico@festo.com



3 Festo Corporation
1377 Motor Parkway
Suite 310
Islandia, NY 11749

Festo Customer Interaction Center
1 800 993 3786
1 800 963 3786
customer.service.us@festo.com



4 Regional Service Center
7777 Columbia Road
Mason, OH 45040

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