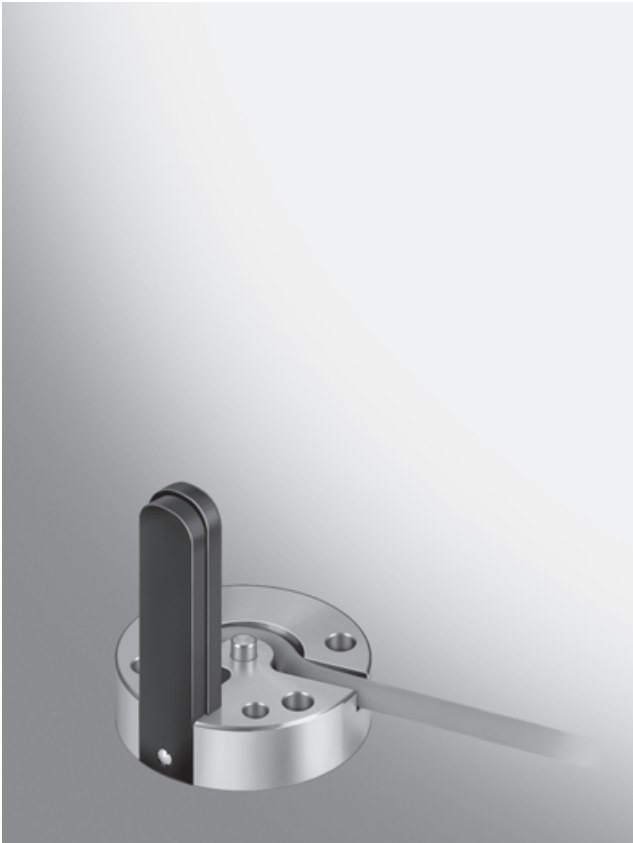


Position sensors SMH-S1, for grippers

Product overview



- Position sensors, adapted to Festo grippers
- Freely selectable switching points

Detailed product information
 ➔ www.festo.com/catalogue/smh

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

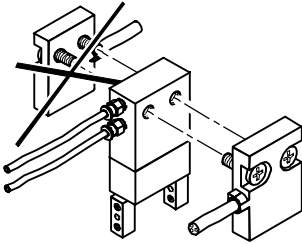
Key features

The position sensor SMH-S1 has been specially developed for use with Festo grippers. An analogue electrical signal is generated in the proximity sensor depending on the gripper position. The conversion to 3 digital output signals (corresponding to 3 gripper jaw positions) takes place via the 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.

In order to ensure the correct functioning of the position sensor the outlet cables and the compressed air tubing must be mounted in the same direction.



Position sensors SMH, for grippers



Type codes, technical data – Position sensors

SMH-S1		HGP06	
Type			
SMH-S1	Position sensor for gripper		
Associated grippers			
HGD16	Three-point gripper DHDS-16-A		
HGP06	Parallel gripper DHPS-06-A		
HGR10	Radial gripper DHRS-10-A		
HGW10	Angle gripper DHWS-10-A		
HGPP-10/12	Parallel gripper HGPP-10 and HGPP-12		
HGPP-16	Parallel gripper HGPP-16		
HGPP20/25	Parallel gripper HGPP-20 and HGPP-25		
HGPP-32	Parallel gripper HGPP-32		

Technical data		
Design		
Constructional design		Adapted for grippers
Type of mounting		Screwed to gripper
Electrical data		
Electrical connection		Cable with plug M8x1, 4-pin
Cable length	[m]	0.5
Protection against short circuit		No
Protection against polarity reversal		No
Protection class		IP65
Measuring principle		Magnetic Hall
Operating and environmental conditions		
Ambient temperature	[°C]	5 ... 60
CE mark (see declaration of conformity)		In accordance with EU EMC directive
Materials		
Housing		Polyamide
Cable sheath		TPE-U (PUR)
Note on materials		Free of copper and PTFE

Ordering data			
	Associated grippers	Part No.	Type
	DHDS-16-A	175 713	SMH-S1-HGD16
	DHPS-06-A	175 710	SMH-S1-HGP06
	DHRS-10-A	175 712	SMH-S1-HGR10
	DHWS-10-A	175 711	SMH-S1-HGW10
	HGPP-10, HGPP-12	189 040	SMH-S1-HGPP10/12
	HGPP-16	189 041	SMH-S1-HGPP16
	HGPP-20, HGPP-25	189 042	SMH-S1-HGPP20/25
	HGPP-32	526 895	SMH-S1-HGPP32

Note

For position sensors SMH-S1-HG...:

Adapted signal converters SVE4-HS

➔ 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 Tlalneptla,
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

Connect with us

www.festo.com/socialmedia



www.festo.com

Subject to change