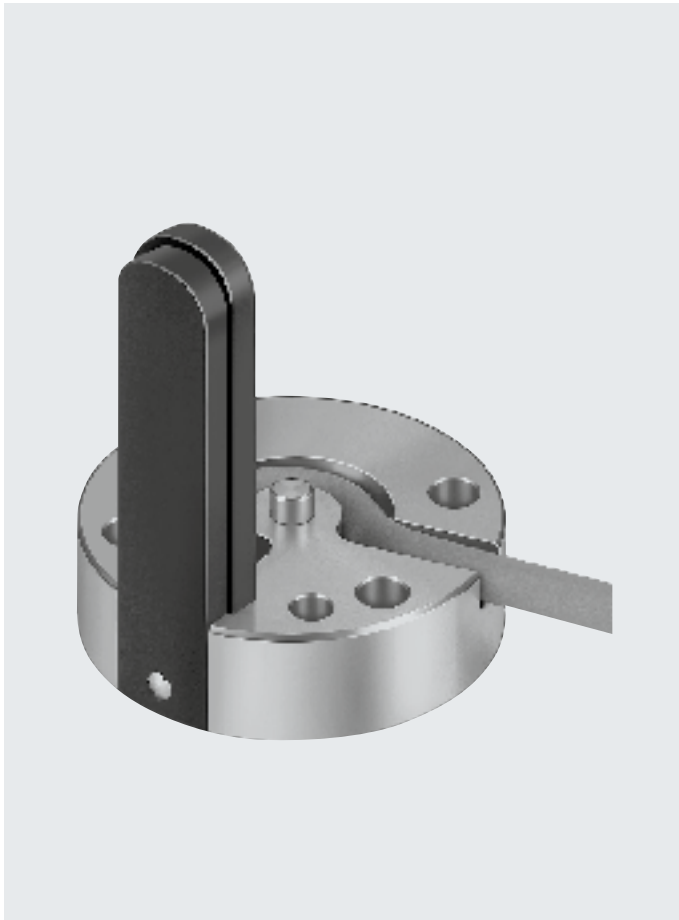


Product range overview



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

Detailed product information

→ www.festo.com/catalogue/smh


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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.

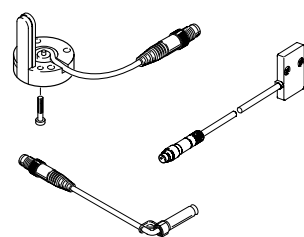
Type codes, technical data – Position sensors


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.