

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		

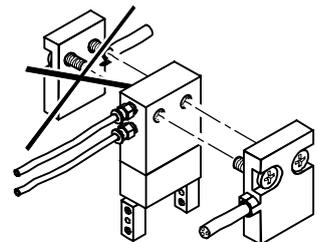
Key features

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
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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