



MPS-G50CSH55D43ZZZ

MPS-G

CYLINDER SENSORS

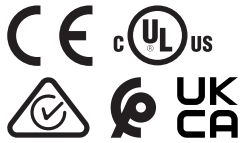
SICK
Sensor Intelligence.



Ordering information

Type	part no.
MPS-G50CSH55D43ZZZ	1108674

Other models and accessories → www.sick.com/MPS-G



Detailed technical data

Features

Cylinder type	C-slot
Preferred manufacturer slot	SMC, Schunk, PHD, Bimba
Detection zone	0 mm ... 50 mm ¹⁾
Cylinder types with adapter	T-slot cylinders Round body cylinder Profile cylinders and tie-rod cylinders
Measuring range	50 mm
Housing length	25 mm
Output function	Analog
Electrical wiring	DC 4-wire
Analog output (voltage)	0 V ... 10 V
Enclosure rating	IP67
Adjustment	Teach-in button Initialization of dynamic teach for measuring range Resetting of measuring range Manual adjustment of measuring range
Special features	Completely embedded mounting in the slot, providing protection

¹⁾ Deviations are possible depending on the drive.

Mechanics/electronics

Supply voltage	13 V DC ... 30 V DC ¹⁾
Min. load resistance	≥ 2 kΩ
Protection class	III
Time delay before availability	0.15 s
Power consumption	≤ 550 mW
Required magnetic field sensitivity, typ.	2 mT ... 20 mT ²⁾

¹⁾ 12 V DC ... 30 V DC for deactivated out-of-range display.

²⁾ The sensor must not be subjected to magnetic fields strengths of > 20 mT!

³⁾ For measuring range > 37 mm, the following applies for the resolution: Measuring range / 3,723.

⁴⁾ At 25 ° C, linearity error (maximum deviation) depending on response curve and minimal deviation function.

⁵⁾ At 25 ° C, repeatability magnet movement in one direction.

⁶⁾ The analog measured value can deviate under transient conditions.

Resolution, typ.	0,01 mm ³⁾
Linearity error, typ.	0.3 mm ⁴⁾
Repeat accuracy, typ.	0.05 mm ⁵⁾
Sampling rate, typ.	1 ms
Reverse polarity protection	Yes
Short-circuit protection	Yes
Status indicator LED	Yes
Teach-in	Yes
Ambient operating temperature	-20 °C ... +70 °C
Shock and vibration resistance	30 g, 11 ms / 10 ... 55 Hz, 1 mm
EMC	According to EN 60947-5-7 ⁶⁾
Connection type	Cable with connector M8, 4-pin, with knurled nut, 0.5 m
Connection type Detail	
Conductor cross section	0.08 mm ²
Cable diameter	Ø 2.6 mm
Bending radius	For flexible use > 10 x cable diameter
	With fixed installation > 5 x cable diameter
Cable outlet	Axial
Control elements connection cable	
Connection type	Cable, 4-wire, 0.5 m
Control elements connection cable detail	
Conductor size	0.09 mm ²
Cable diameter	Ø 2.2 mm
Bending radius	For flexible use > 10 x cable diameter
	With fixed installation > 5 x cable diameter
Cable outlet	Axial
Material	
Housing	Plastic, PA, strengthened
Cable	PUR
Control element	Plastic, TPU, reinforced

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Safety-related parameters

MTTF_D	358 years
DC_{avg}	0 %
T_M (mission time)	20 years

Certificates

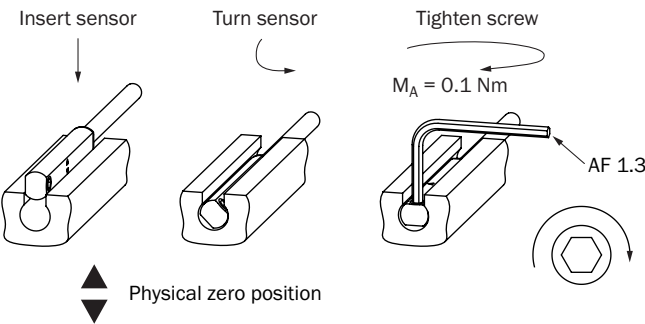
EU declaration of conformity	✓
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UK declaration of conformity	✓
ACMA declaration of conformity	✓
Moroccan declaration of conformity	✓
China-RoHS	✓
cULus certificate	✓

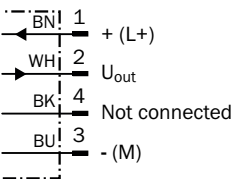
Classifications

ECLASS 5.0	27270104
ECLASS 5.1.4	27270104
ECLASS 6.0	27270104
ECLASS 6.2	27270104
ECLASS 7.0	27270104
ECLASS 8.0	27270104
ECLASS 8.1	27270104
ECLASS 9.0	27270104
ECLASS 10.0	27270104
ECLASS 11.0	27270104
ECLASS 12.0	27274301
ETIM 5.0	EC002544
ETIM 6.0	EC002544
ETIM 7.0	EC002544
ETIM 8.0	EC002544
UNSPSC 16.0901	39122230

Installation note



Connection diagram Cd-465



Part no.	Type	L1	Number of cores
1127849	MPS-G50CSH15D31DZZ	100 mm	4

Recommended accessories

Other models and accessories → www.sick.com/MPS-G

	Brief description	Type	part no.
Mounting systems			
	Description: Mounting is by means of the enclosed adhesive pad, 2x M3 countersunk screws or 2x cable ties Material: Plastic Details: Plastic Items supplied: Including double-sided adhesive pad Usable for: MPS-G	BEF-CPMPS-G	2117133
	Description: Preferred manufacturer slot Festo, SMC, Pneumax, Airtec Material: Plastic Details: Plastic Usable for: MPS-G, MZC2, MZ2Q-C	BEF-KHZ-TC3	2117770
connectors and cables			
	Connection type head A: Female connector, M8, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals, Uncontaminated zones	YF8U14-050VA3XLEAX	2095889
	Connection type head A: Male connector, M8, 4-pin, straight, A-coded Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: 0.14 mm² ... 0.5 mm²	STE-0804-G	6037323

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We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

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