



MPS-032TSNQDS04

MPS-T

POSITION SENSORS





Ordering information

Туре	Part no.
MPS-032TSNQDS04	1073318

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



Detailed technical data

Features

Cylinder type	T-slot
Cylinder types with adapter	Round body cylinder Profile cylinders and tie-rod cylinders Dovetail groove cylinder SMC rail CDQ2 SMC rail ECDQ2 SMC cylinders with C-slot
Measuring range	128 mm ¹⁾
Housing length	141 mm
Output function	Analog
Electrical wiring	DC 4-wire
Analog output (voltage)	0 V 10 V ²⁾
Analog output (current)	4 mA 20 mA ²⁾
Enclosure rating	IP67 ³⁾

¹⁾, ± 1 mm.

Mechanics/electronics

Supply voltage	15 V DC 30 V DC ¹⁾
Power consumption	≤ 22 mA ²⁾
Max. load resistance	500 Ω ³⁾

 $^{^{1)}}$ Reverse-polarity protected, operation in short-circuit protected network: max. 8 A.

²⁾ The sensor only activates the wired output.

³⁾ According to EN 60529.

²⁾ Without load.

³⁾ Power Output, at 24 V.

⁴⁾ Voltage output.

 $^{^{5)}}$ FSR: Full Scale Range; max. measuring range.

 $^{^{6)}}$ At 25 $^{\circ}$ C, linearity error (maximum deviation) depending on response curve and minimal deviation function.

 $^{^{7)}\,\}mathrm{At}\,25\,$ ° C, repeatability magnet movement in one direction.

⁸⁾ Only in standard mode, not in IO-Link mode.

⁹⁾ The analog measured value can deviate under transient conditions.

¹⁰⁾ Do not bend below 0 °C.

2 kΩ ⁴⁾
5 s
mT
03 % FSR (max. ≥ 0.05 mm) ⁵⁾
3 mm ⁶⁾
06 % FSR (≥ 0.1 mm) ⁷⁾
ms ⁸⁾
20 °C +70 °C
0 g, 11 ms / 10 55 Hz, 1 mm
ccording to EN 60947-5-2 ⁹⁾
astic
able with M12 male connector, 4-pin, 1 m ¹⁰⁾
JR
אנ
08 mm ²
5 m 0 3 0 m 22(() ccc as

¹⁾ Reverse-polarity protected, operation in short-circuit protected network: max. 8 A.

Classifications

ECI@ss 5.0	27270104
ECI@ss 5.1.4	27270104
ECI@ss 6.0	27270104
ECI@ss 6.2	27270104
ECI@ss 7.0	27270104
ECI@ss 8.0	27270104
ECI@ss 8.1	27270104
ECI@ss 9.0	27270104
ETIM 5.0	EC002544
ETIM 6.0	EC002544
UNSPSC 16.0901	39122230

²⁾ Without load.

³⁾ Power Output, at 24 V.

⁴⁾ Voltage output.

⁵⁾ FSR: Full Scale Range; max. measuring range.

⁶⁾ At 25 ° C, linearity error (maximum deviation) depending on response curve and minimal deviation function.

 $^{^{7)}}$ At 25 $^{\circ}$ C, repeatability magnet movement in one direction.

 $^{^{8)}}$ Only in standard mode, not in IO-Link mode.

⁹⁾ The analog measured value can deviate under transient conditions.

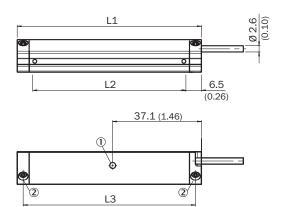
¹⁰⁾ Do not bend below 0 °C.

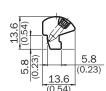
Connection diagram

Cd-034

Dimensional drawing (Dimensions in mm (inch))

Without teach-in





	Total length (L1) mm	Measuring range (L2) mm	Distance mounting screws (L3) mm
MPS-32	45	32	40
MPS-64	77	64	72
MPS-96	109	96	104
MPS-128	141	128	136
MPS-160	173	160	168
MPS-192	205	192	200
MPS-224	237	224	232
MPS-256	269	256	264

- Function indicator
- ② Fixing screw

Recommended accessories

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

	Brief description	Туре	Part no.
Brackets for cylinder sensors			
	Mounting bracket for cylinder with dovetail slot, Aluminum, without mounting hardware	BEF-KHZ-ST1	2022703
	Mounting bracket for integrated profile cylinder/tie-rod cylinder, Zinc diecast, mounting hardware included	BEF-KHZ-PT1	2022702
8	1 piece, Mounting bracket on round body cylinder with piston diameter of 12 mm, ambient temperature min 0 °C max 50 °C, Plastic, Aluminum	BEF-KHZ-RT-12	2077681
	1 piece, Mounting bracket on round body cylinder with piston diameter of 16 mm, ambient temperature min 0 °C max 50 °C, Plastic, Aluminum	BEF-KHZ-RT-16	2077680
	1 piece, Mounting bracket on round body cylinder with piston diameter of 20 mm, ambient temperature min 0 °C max 50 °C, Plastic, Aluminum	BEF-KHZ-RT-20	2077679
	1 piece, Mounting bracket on round body cylinder with piston diameter of 25 mm, ambient temperature min 0 °C max 50 °C, Plastic, Aluminum	BEF-KHZ-RT-25	2077678

	Brief description	Туре	Part no.
	1 piece, Mounting bracket on round body cylinder with piston diameter of 32 mm, ambient temperature min 0 °C max 50 °C, Plastic, Aluminum	BEF-KHZ-RT-32	2077677
	1 piece, Mounting bracket on round body cylinder with piston diameter of 40 mm, ambient temperature min 0 °C max 50 °C, Plastic, Aluminum	BEF-KHZ-RT-40	2077676
	1 piece, Mounting bracket on round body cylinder with piston diameter of 50 mm, ambient temperature min 0 °C max 50 °C, Plastic, Aluminum	BEF-KHZ-RT-50	2077675
	1 piece, Mounting bracket on round body cylinder with piston diameter of 63 mm, ambient temperature min 0 °C max 50 °C, Plastic, Aluminum	BEF-KHZ-RT-63	2077674
	1 piece, Mounting bracket on round body cylinder with piston diameter of 8 mm \dots 130 mm, ambient temperature min –30 °C max 80 °C, Stainless steel, Zinc cast	BEF-KHZ-RT1-130	2077684
	1 piece, Mounting bracket on round body cylinder with piston diameter of 8 mm 25 mm, ambient temperature min –30 °C max 80 °C, Stainless steel, Zinc cast	BEF-KHZ-RT1-25	2077682
	1 piece, Mounting bracket on round body cylinder with piston diameter of 8 mm 63 mm, ambient temperature min -30 °C max 80 °C, Stainless steel, Zinc cast	BEF-KHZ-RT1-63	2077683
	Mounting bracket with T-slot for mounting a MPS on SMC C-slot cylinders. For each MPS a minimum of 2 brackets is recommended., Aluminum	BEF-KHZ-CT23	2074119
	Mounting bracket for mounting on SMC rails CDQ2 (T-slot), Aluminum, without mounting hardware	BEF-KHZ-TT2	2046440
0	Mounting bracket for mounting on SMC rails ECDQ2 (T-slot), Aluminum, without mounting hardware	BEF-KHZ-TT1	2046439
Other mounting	ng accessories		
43	Cable clips T-slot, 10 pcs./bag	CABLE CLIPS	2059322
NE	10 pieces, Label Holder, 2.5 mm to 3.5 mm, 10 pcs., TPU	LABEL HOLDER	2086019
Plug connecto	ors and cables		
No.	Head A: female connector, M12, 4-pin, straight Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 2 m	DOL-1204-G02MC	6025900
	Head A: female connector, M12, 4-pin, straight Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 5 m	DOL-1204-G05MC	6025901
6	Head A: female connector, M12, 4-pin, angled Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 2 m	DOL-1204-W02MC	6025903
	Head A: female connector, M12, 4-pin, angled Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 5 m	DOL-1204-W05MC	6025904
	Head A: female connector, M12, 4-pin, straight Head B: - Cable: unshielded	DOS-1204-G	6007302
	Head A: female connector, M12, 4-pin, angled Head B: - Cable: unshielded	DOS-1204-W	6007303
	Head A: male connector, M12, 4-pin, straight Head B: - Cable: unshielded	STE-1204-G	6009932

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Brief description	Туре	Part no.
Head A: male connector, M12, 4-pin, angled Head B: - Cable: unshielded	STE-1204-W	6022084

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

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."

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