



MPS-T

Position sensors for T-slot cylinders

SICK
Sensor Intelligence.



Technical data overview

Output function	Analog / IO-Link (depending on type)
IO-Link	✓
Teach-in	Yes / no (depending on type)
Special features	Modified part for use on hydraulic cylinders
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	32 mm ... 256 mm (depending on type)
Housing length	45 mm ... 269 mm (depending on type)

Product description

MPS-T position sensors continuously detect the piston position of pneumatic actuators using a direct, non-contact method. They can be mounted in T-slots without the need for additional accessories. The sensor settings can be adjusted during installation and during operation later on, using a teach pad or – depending on the variant – using IO-Link. The sensors continuously supply data via analog outputs or IO-Link, enabling flexible machine concepts and making it possible to solve tasks in areas such as quality monitoring and process control in conjunction with pneumatic cylinders and drives. This continuous transfer of position data upgrades the functionality of the pneumatic cylinders by making them more intelligent – and, as a result, more versatile.

At a glance

- Position sensor for direct mounting in T-slots on pneumatic cylinders
- Sensor variants with measuring ranges of 32 mm to 256 mm
- Analog outputs (for current or voltage), switching output, and IO-Link
- Mounting on other cylinder types (e.g., round body cylinders) is possible with adapters

Your benefits

- Rapid mounting and exchange of sensors with drop-in
- Straightforward installation as no additional mechanical components or position elements are required
- Can be integrated into the machine at any time, as the sensor is attached to the cylinder externally
- Easy adjustment of sensor settings and parameters during operation using a teach field or IO-Link
- More flexibility compared to conventional cylinder sensors, as it is possible to define multiple switching points in the smallest of spaces
- Long service life thanks to non-contact measurement principle
- Advanced diagnostic options thanks to data transmission via IO-Link

Fields of application

- Continuous position detection in pneumatic cylinders

Ordering information

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

- **Communication interface:** -
- **Output function:** Analog
- **Electrical wiring:** DC 4-wire
- **Cable material:** PUR

Measuring range	Connection type	Type	Part no.
32 mm	Cable with M12 male connector, 4-pin, 1 m	MPS-032TSNQDS04	1073318
	Cable with M8 male connector, 4-pin, 0.3 m	MPS-032THNP0	1072897
		MPS-032THTP0	1054862
		MPS-032TSNP0	1053835
		MPS-032TSTP0	1045666
	Cable, 4-wire, 2 m	MPS-032TSNU0	1050918
		MPS-032TSTU0	1045667
	Cable, 4-wire, 5 m	MPS-032TSTUB	1119767
64 mm	Cable with M8 male connector, 4-pin, 0.3 m	MPS-064THTPOS06	1111946
		MPS-064TSNP0	1053836
		MPS-064TSTP0	1045668
	Cable, 4-wire, 2 m	MPS-064TSNU0	1050919
		MPS-064TSTU0	1045669
96 mm	Cable with M8 male connector, 4-pin, 0.3 m	MPS-096THTPOS02	1054049
		MPS-096TSNP0	1053837
		MPS-096TSTP0	1045670
	Cable with connector M8, 4-pin, with knurled nuts, 0.18 m	MPS-096TSTRDS05	1098033
	Cable, 4-wire, 2 m	MPS-096TSNU0	1050920
		MPS-096TSTU0	1045671
	Cable with male connector, M8, 4-pin, angled, with knurled screws, 0.14 m	MPS-096TSTRDS04	1097992
	128 mm	Cable with M12 male connector, 4-pin, 0.3 m	MPS-128TSNQ0
Cable with M8 male connector, 4-pin, 0.3 m		MPS-128TSNP0	1053838
		MPS-128TSTP0	1045672
		MPS-128TSTPOS01	1048206
Cable, 4-wire, 10 m		MPS-128TSNUD	1092678
Cable, 4-wire, 2 m		MPS-128TSNU0	1050921
		MPS-128TSTU0	1045673
Cable with male connector, M8, 4-pin, angled, with knurled screws, 0.15 m		MPS-128TSTRDS04	1099501
160 mm	Cable with M8 male connector, 4-pin, 0.3 m	MPS-160TSNP0	1053839
		MPS-160TSTP0	1050685
	Cable, 4-wire, 2 m	MPS-160TSNU0	1050922
		MPS-160TSTU0	1050740

Measuring range	Connection type	Type	Part no.
192 mm	Cable with M8 male connector, 4-pin, 0.3 m	MPS-192TSNP0	1053840
		MPS-192TSTP0	1047728
	Cable, 4-wire, 2 m	MPS-192TSNU0	1050923
		MPS-192TSTU0	1050738
224 mm	Cable with M8 male connector, 4-pin, 0.3 m	MPS-224TSNP0	1053841
		MPS-224TSTP0	1050686
	Cable, 4-wire, 2 m	MPS-224TSNU0	1050924
		MPS-224TSTU0	1050741
256 mm	Cable with M8 male connector, 4-pin, 0.3 m	MPS-256TSNP0	1053842
		MPS-256TSTP0	1050551
	Cable, 4-wire, 2 m	MPS-256TSNU0	1050925
		MPS-256TSTU0	1050739

- **Communication interface:** IO-Link
- **Smart Sensor:** Enhanced Sensing, efficient communication, diagnosis
- **Output function:** IO-Link
- **Electrical wiring:** DC 4-wire
- **Cable material:** PUR
- **Connection type:** Cable with M12 male connector, 4-pin, 0.3 m

Measuring range	Type	Part no.
32 mm	MPS-032TLTQ0	1062506
64 mm	MPS-064TLTQ0	1062507
96 mm	MPS-096TLTQ0	1062508
128 mm	MPS-128TLTQ0	1062518
160 mm	MPS-160TLTQ0	1062521
192 mm	MPS-192TLTQ0	1062519
224 mm	MPS-224TLTQ0	1062522
256 mm	MPS-256TLTQ0	1062520

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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.”

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