



MPS-T

Position sensors for T-slot cylinders

SICK
Sensor Intelligence.



Technical data overview

| | |
|------------------------------------|--|
| Output function | Analog / IO-Link (depends on variant) |
| IO-Link | ✓ |
| Teach-in | Yes / no (depends on variant) |
| 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 |
| Measuring range | 32 mm ... 256 mm (depends on variant) |
| Housing length | 45 mm ... 269 mm (depends on variant) |

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, stripped, 2 m | MPS-032TSNU0 | 1050918 |
| | | MPS-032TSTU0 | 1045667 |
| 64 mm | Cable with M8 male connector, 4-pin, 0.3 m | MPS-032TSTUB | 1119767 |
| | | MPS-064THTP0S06 | 1111946 |
| | | MPS-064TSNP0 | 1053836 |
| | Cable, 4-wire, stripped, 2 m | MPS-064TSTP0 | 1045668 |
| | | MPS-064TSNU0 | 1050919 |
| 96 mm | Cable with M8 male connector, 4-pin, 0.3 m | MPS-064TSTU0 | 1045669 |
| | | MPS-096THTP0S02 | 1054049 |
| | | MPS-096TSNP0 | 1053837 |
| | Cable with connector M8, 4-pin, with knurled nut, 0.18 m | MPS-096TSTP0 | 1045670 |
| | | MPS-096TSTRDS05 | 1098033 |
| | Cable, 4-wire, stripped, 2 m | MPS-096TSNU0 | 1050920 |
| | | MPS-096TSTU0 | 1045671 |
| 128 mm | Cable with male connector, M8, 4-pin, angled, with knurled screws, 0.14 m | MPS-096TSTRDS04 | 1097992 |
| | Cable with M12 male connector, 4-pin, 0.3 m | MPS-128TSNQ0 | 1066719 |
| | | MPS-128TSNP0 | 1053838 |
| | | MPS-128TSTP0 | 1045672 |
| | Cable with M8 male connector, 4-pin, 0.3 m | MPS-128TSTPOS01 | 1048206 |
| | | MPS-128TSNUD | 1092678 |
| | | MPS-128TSNU0 | 1050921 |
| 160 mm | Cable, 4-wire, stripped, 10 m | MPS-128TSTU0 | 1045673 |
| | | MPS-128TSTRDS04 | 1099501 |
| | Cable, 4-wire, stripped, 2 m | MPS-160TSNP0 | 1053839 |
| | | MPS-160TSTP0 | 1050685 |
| | | MPS-160TSNU0 | 1050922 |
| | Cable, 4-wire, stripped, 2 m | 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, stripped, 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, stripped, 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, stripped, 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 |

SICK AT A GLANCE

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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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