



MPS-C

Position sensors for C-slot cylinders

SICK
Sensor Intelligence.



Technical data overview

Output function	Analog, IO-Link, Switching output
IO-Link	✓
Teach-in	Yes
Cylinder types with adapter	Round body cylinder Profile cylinders and tie-rod cylinders SMC rail CDQ2 SMC rail ECDQ2
Measuring range	25 mm ... 200 mm (depending on type)
Housing length	41 mm ... 215 mm (depending on type)

Product description

MPS-C position sensors continuously detect the piston position of pneumatic actuators using a direct, non-contact method. They can be mounted in C-slots without the need for additional accessories. The sensor settings can be adjusted during installation and during operation later on, using a teach field or 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 C-slots on pneumatic cylinders and grippers
- Sensor variants with measuring ranges of 25 mm to 200 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 pad or IO-Link
- More flexibility compared to conventional cylinder sensors, as it is possible to define multiple switching points in the smallest of spaces
- Excellent reliability thanks to the rugged sensor design and 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-C

- **Communication interface:** IO-Link
- **Smart Sensor:** Enhanced Sensing, efficient communication, diagnosis
- **Output function:** Analog, IO-Link, Switching output
- **Switching output:** push-pull: PNP/NPN
- **Electrical wiring:** DC 4-wire
- **Cable material:** PUR

Measuring range	Connection type	Type	Part no.
25 mm	Cable with M8 male connector, 4-pin, 0.3 m	MPS-025CLTP0	1079358
	Cable with connector M12, 4-pin, with knurled nuts, 0.6 m	MPS-025CLTQDS01	1111002
	Cable, 4-wire, 2 m	MPS-025CLTU0	1079359
50 mm	Cable with M8 male connector, 4-pin, 0.3 m	MPS-050CLTP0	1079360
	Cable, 4-wire, 2 m	MPS-050CLTU0	1079361
100 mm	Cable with M8 male connector, 4-pin, 0.3 m	MPS-100CLTP0	1079362
	Cable with connector M12, 4-pin, with knurled nuts, 0.3 m	MPS-100CLTQ0	1127298
	Cable, 4-wire, 2 m	MPS-100CLTU0	1079363
200 mm	Cable with M8 male connector, 4-pin, 0.3 m	MPS-200CLTP0	1079364
	Cable with connector M12, 4-pin, with knurled nuts, 0.3 m	MPS-200CLTQ0	1111086
	Cable, 4-wire, 2 m	MPS-200CLTU0	1079365

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.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com