



MZCG VIA

Very short magnetic cylinder sensors with optical adjustment indicator for grippers

SENSORS FOR C-SLOT CYLINDERS

SICK
Sensor Intelligence.



Technical data overview

Output function	NO
IO-Link	✓
Special features	Visual installation aid/LED indicator (yellow) Power LED (green) Interior housing temperature (via IO-Link) Counter function (via IO-Link)
Cylinder types with adapter	SMC rail CDQ2 SMC rail ECDQ2
Housing length	12.2 mm
Supply voltage	10 V DC ... 30 V DC

Product description

The MZCG magnetic cylinder sensor detects the piston position in pneumatic grippers and pneumatic miniature cylinders. Thanks to its very small design, the MZCG is particularly well-suited for the C-slots of very small pneumatic actuators such as are used in handling and assembly, robotics or the electronics industry. The sensor is simply inserted in the C-slot and can be quickly and safely fastened to the cylinder. The MZCG fits in a wide range of C-slots of various manufacturers due to its universal housing design. This reduces storage costs, enables flexible machine design and easier service.

At a glance

- Extremely short housing (12.2 mm) for applications in pneumatic grippers and miniature cylinders
- Fits in all commonly-used C-slots, e.g. from Schunk, Zimmer, Festo or SMC
- Short, precise switching point, ideal for applications with small stroke
- Cable suitable for drag chain
- IP68 enclosure rating
- Yellow LED as optical adjustment indicator and output state display
- Green LED acts as a status indicator
- IO-Link and automation functions

Your benefits

- Extremely small housing saves installation space, thereby increasing efficiency of the system
- Shorter switching point optimized for gripper applications increases process efficiency due to higher PSDI times
- Suitable for a wide range of applications: It fits into all standard C-slots, regardless of the cylinder profile or make.
- Reduced storage costs, flexible machine design and easier service
- Inserting the sensor into the slot is quick and easy
- The rugged mounting holds the sensor in the required position, even when exposed to shock and vibration, and increases the reliability
- Flexible sensor settings and visualization thanks to IO-Link

Fields of application

- Open-close position detection in pneumatic grippers
- End position detection in pneumatic miniature cylinders
- Industries: Electronics, handling and assembly (e.g. small part assembly), robotics and packaging

Ordering information

Other models and accessories → www.sick.com/MZCG_VIA

Connection type	Switching output	Output function	Electrical wiring	Communication interface	Type	Part no.
Cable with connector M8, 3-pin, with knurled nuts, 0.5 m	PNP	NO	DC 3-wire	IO-Link	MZCG-1Z7PSAKR0	1091296

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