Product family overview

MZC1 VIA

Cylinder sensors with optical adjustment indicator for C-slot

SENSORS FOR C-SLOT CYLINDERS

SICK
Sensor Intelligence.

Technical data overview

Output function	NO
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 Round body cylinder Profile cylinders and tie-rod cylinders
Housing length	23.7 mm
Supply voltage	10 V DC ... 30 V DC

Product description

The MZC1 VIA cylinder sensor from SICK is the flexible solution for detecting the piston position in pneumatic actuators. The MZC1 VIA can be mounted directly into all cylinders with standard C-slots. SICK also has an extensive range of adapters which enable the MZC1 VIA to be used with other cylinder types. The MZC1 VIA is characterized by its simple mounting principle: Insert the sensor into the slot and rotate the fixing screw a quarter turn to fix it securely to the cylinder. The yellow LED serves as an optical adjustment indicator and makes it easier to install the sensor and monitor its mounting position. The additional green LED indicates whether the MZC1 VIA is in operation.

At a glance

- Can be used in all standard cylinders, linear slides, and grippers using the C-slot and – with the help of adapters – in round rod, tie-rod, and profile cylinders
- Insertion of the sensor into the slot from above makes mounting quick and easy
- Combined fixing screw (hexagon socket screw and slotted screw)
- Yellow LED as optical adjustment indicator and output state display
- Green LED acts as a status indicator
- Enclosure ratings: IP 67, IP 68, IP 69K
- IO-Link and automation functions

Your benefits

- A sensor for a wide range of applications: The sensor design fits into all standard C-slots used around the world, regardless of the cylinder profile or make
- Easy installation and mounting position monitoring thanks to yellow LED
- Additional powerful green LED acts as a status indicator
- Quick and easy mounting using an Allen key or flat-head screwdriver
- Low maintenance costs as the sensor is resistant to shock and vibration, meaning it does not slide about in the slot
- Saves time on initial installation and when replacing devices as the sensor can be easily inserted into the slot from above. The end caps of the cylinder do not have to be removed.
- Very rugged housing with enclosure rating IP 67, IP 68, or IP 69K extends the service life of the sensor
- Flexible sensor settings and visualization thanks to IO-Link

Fields of application

- End position detection in pneumatic cylinders

Ordering information

Other models and accessories ➜ www.sick.com/MZC1_VIA

- **Switching output:** PNP
- **Output function:** NO
- **Electrical wiring:** DC 3-wire
- **Communication interface:** IO-Link

Connection type	Type	Part no.
Cable with connector M12, 3-pin, 0.3 m	MZC1-2V2PSAKQ0	1079048
Cable with connector M8, 3-pin, 0.3 m	MZC1-2V2PSAKP0	1079046
Cable with connector M8, 3-pin, with knurled nuts, 0.3 m	MZC1-2V2PSAKR0	1079047
Cable with connector M8, 3-pin, with knurled nuts, 0.5 m	MZC1-2V2PSAKRD	1089290
Cable, 3-wire, 2 m	MZC1-2V2PSAKU0	1079049
Cable, 3-wire, 5 m	MZC1-2V2PSAKUB	1079050

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

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