Product family overview

MZC1

Cylinder sensors with precise switching point for C-slot

SICK
Sensor Intelligence.

Technical data overview

Output function	NO / NC (depending on type)
Special features	Sensor element distance: 7.95 mm
Cylinder types with adapter	SMC rail CDQ2 SMC rail ECDQ2 Round body cylinder Profile cylinders and tie-rod cylinders
Housing length	23.7 mm

Product description

The MZC1 cylinder sensor from SICK is the flexible solution for detecting the piston position in pneumatic actuators. The MZC1 can be mounted directly into all cylinders with standard C-slots. SICK also has an extensive range of adapters which enable the MZC1 to be used with other cylinder types. The MZC1 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. Furthermore, the MZC1 is available in a range of variants up to an enclosure rating of IP 69K. This ensures the sensor has a long service life and reduces maintenance costs.

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)
- LED for indicating the output state
- Enclosure ratings: IP 67, IP 68, IP 69K

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
- 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

Fields of application

- End position detection in pneumatic cylinders

Ordering information

Other models and accessories ➜ www.sick.com/MZC1

- **Communication interface:** -

Connection type	Switching output	Output function	Electrical wiring	Type	Part no.
Cable with connector M12, 3-pin, 0.3 m	NPN	NO	DC 3-wire	MZC1-2V2NS-KQ0	1077026
	PNP	NO	DC 3-wire	MZC1-2V2PS-KQ0	1059736
				MZC1-4V3PS-KQ0	1059754
Cable with connector M12, 3-pin, 1 m	PNP	NO	DC 3-wire	MZC1-2V2PS-KQD	1083652

Connection type	Switching output	Output function	Electrical wiring	Type	Part no.
Cable with connector M8, 2-pin, with knurled nuts, 0.3 m	–	–	DC 2-wire	MZC1-2V2DS-KR0	1092528
Cable with connector M8, 3-pin, 0.3 m	NPN	NO	DC 3-wire	MZC1-2V2NS-KP0	1059744
				MZC1-4V3NS-KP0	1059757
	PNP	NO	DC 3-wire	MZC1-2V2PS-KP0	1059735
				MZC1-4V3PS-KP0	1059752
Cable with connector M8, 3-pin, with knurled nuts, 0.3 m	NPN	NO	DC 3-wire	MZC1-2V2NS-KR0	1059742
	PNP	NC	DC 3-wire	MZC1-4V3PO-KR0	1145710
		NO	DC 3-wire	MZC1-2V2PS-KR0	1059737
				MZC1-2V2PS-KR0S10	1084696
				MZC1-2V2PS-KR0S19	1119997
				MZC1-2V2PS-KR0S20	1144625
				MZC1-4V3PS-KR0	1059753
Cable with connector M8, 3-pin, with knurled nuts, 0.5 m	PNP	NO	DC 3-wire	MZC1-2V2PS-KRD	1060129
Cable, 2-wire, 3 m	–	–	DC 2-wire	MZC1-2V2DS-KUA	1086137
Cable, 2-wire, 5 m	–	–	DC 2-wire	MZC1-2V2DS-KUB	1087248
Cable, 3-wire, 2 m	NPN	NO	DC 3-wire	MZC1-2V2NS-KU0	1059743
				MZC1-4V3NS-KU0	1059756
	PNP	NC	DC 3-wire	MZC1-4V3PO-KU0	1063549
		NO	DC 3-wire	MZC1-2V2PS-KU0	1059738
				MZC1-2V2PS-KW0	1059740
				MZC1-4V3PS-KU0	1059755
Cable, 3-wire, 5 m	PNP	NO	DC 3-wire	MZC1-2V2PS-KUB	1059739
				MZC1-2V2PS-KWB	1059741
				MZC1-2Z2PS-KUB	1068831
Cable with connector M8, 2-pin, 0.3 m	–	–	DC 2-wire	MZC1-2V2DS-KP0	1087247

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

SICK
Sensor Intelligence.