MZT8

Cylinder sensors with precise switching point for T-slot cylinders

SICK

Sensor Intelligence.

MZT8

Technical data overview

Output function	NO / NC (depends on variant)
Teach-in	No
Special features	20 ms pulse streching (off delay) Magnetic field and welding field resistance (interference fields) PTFE hose Stainless steel connector Increased weld field immunity with 600 ms interference suppression time Extended operating temperature (depends on variant)
Cylinder types with adapter	Profile cylinder Tie rod cylinder Round body cylinder Dovetail groove cylinder SMC rail CDQ2 SMC rail ECDQ2
Housing length	24 mm

Product description

The MZT8 cylinder sensor from SICK is the flexible solution for detecting the piston position in pneumatic actuators. The sensor can be inserted into cylinders very easily and, with the screw-and-washer assembly, tightened with just a quarter turn of a slotted screwdriver or hex key. It is not only the perfect fit in the slot that makes the MZT8 ideal for use in pneumatic cylinders with T-slots. Patented GMR technology and the SICK ASIC ensure that the sensor only needs one attempt to deliver precise switching. Multiple switching operations are suppressed, which results in increased machine performance. The MZT8 is available in a range of variants up to an enclosure rating of IP 69K and with a temperature resistance of up to 100 °C. 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 T-slot and – with the help of adapters – in round rod, tie-rod, and profile cylinders, and cylinders with a dovetail groove
- Insertion of the sensor into the slot from above makes mounting quick and easy
- Combined fixing screw (hexagon socket screw and slotted screw)
- High-temperature variants: temperature-resistant up to 100 °C
- Very short sensor housing for use in short stroke cylinders
- Enclosure ratings: IP 67, IP 68, IP 69K

Your benefits

- Can be used at temperatures up to 100 °C
- Very rugged housing with enclosure rating IP 67, IP 68, or IP 69K extends the service life of the sensor
- Increases machine output though precise switching at the first attempt
- Quick and easy mounting using an Allen key or flat-head screwdriver
- 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.
- Low maintenance costs as the sensor is resistant to shock and vibration, meaning it does not slide about in the slot

Fields of application

- End position detection in pneumatic cylinders

Ordering information

Other models and accessories → www.sick.com/MZT8

- **Electrical wiring:** DC 3-wire
- **Communication interface:** -

Connection type	Output function	Type	Part no.
Cable with M12 male connector, 4-pin, 0.3 m	NO	MZT8-1V9PS-KQ0S34	1101002
Cable with MOLEX-connector, 3-pin, 0.16 m	NO	MZT8-03VNS-KUDS29	1092473
Cable with MOLEX-connector, 3-pin, 0.36 m	NO	MZT8-03VNS-KUDS30	1092474
Cable with connector M12, 4-pin, with knurled nut, 0.3 m	NO	MZT8-03VPS-KQ0	1044460
		MZT8-28VPS-KQ0	1048051
		MZT8-2V8PSWKQ0S40	1135895
Cable with connector M12, 4-pin, with knurled nut, 0.5 m	NO	MZT8-28VPS-KQD	1058311
Cable with connector M12, 4-pin, with knurled nut, 1 m	NO	MZT8-03VPS-KQD	1058317
Cable with connector M8, 3-pin, 0.12 m	NO	MZT8-03VPS-KPDS38	1121966
Cable with connector M8, 3-pin, 0.1 m	NO	MZT8-2V8PS-KPDS26	1089849
Cable with connector M8, 3-pin, 0.3 m	NC	MZT8-03VP0-KP0	1044930
	NO	MZT8-03VNS-KP0	1044932
		MZT8-03VPS-KP0	1044458
		MZT8-03VPS-KP0S06	1053415
		MZT8-19VPS-KP0	1053014
		MZT8-28VPS-KP0	1048048
		MZT8-28VPS-KP0S10	1054250
		MZT8-2V6PSTKP0	1073268
Cable with connector M8, 3-pin, 0.75 m	NO	MZT8-03VPS-KPD	1044461
Cable with male connector, M12, 4-pin, with knurled screws, with PTFE hose, 0.5 m	NO	MZT8-2V8PSWKQDS39	1127307
Cable with male connector, M8, 3-pin, with knurled screws, with PTFE hose, 0.5 m	NO	MZT8-2V8PSWKR0	1109451
Cable with plug M8, 3-pin, with knurled nut, 0.3 m	NO	MZT8-03VPS-KRD	1044464
		MZT8-03VPS-KRDS04	1048502
		MZT8-03VPS-KRDS12	1067400
Cable with plug M8, 3-pin, with knurled nut, 0.5 m	NC	MZT8-03VN0-KRDS16	1069395
		MZT8-03VP0-KRDS14	1069393
	NO	MZT8-03VNS-KR0	1044935
		MZT8-03VNS-KRDS15	1069394
		MZT8-03VPS-KR0	1044459
		MZT8-03VPS-KR0S01	1046374
		MZT8-03VPS-KR0S05	1048503
		MZT8-03VPS-KRDS13	1069392
		MZT8-28VPS-KR0	1048050
		MZT8-28VPS-KR0S02	1048174

Connection type	Output function	Type	Part no.
Cable with plug M8, 3-pin, with knurled nut, 1.5 m	NO	MZT8-03VPS-KRDS46	1144310
Cable with plug M8, 3-pin, with knurled nut, 2 m	NO	MZT8-03VPS-KRDS35	1106079
Cable with plug M8, 3-pin, with knurled nut, 5 m	NO	MZT8-03VPS-KRB	1044463
Cable, 3-wire, ferrules, 10 m	NC	MZT8-03VP0-KUD	1060429
	NO	MZT8-03VPS-KUD	1054051
		MZT8-2V6PSTKWD	1073271
Cable, 3-wire, ferrules, 2.5 m	NO	MZT8-03VPS-KUDS08	1054237
Cable, 3-wire, ferrules, 2 m	NC	MZT8-03VP0-KU0	1044931
	NO	MZT8-03VNS-KU0	1044934
		MZT8-03VNS-KW0	1044468
		MZT8-03VPS-KU0	1044469
		MZT8-03VPS-KW0	1044349
		MZT8-28VPS-KU0	1048049
		MZT8-2V6NSTKW0	1088313
		MZT8-2V6PSTKW0	1073269
Cable, 3-wire, ferrules, 3.6 m	NO	MZT8-03VPS-KUDS09	1054238
Cable, 3-wire, ferrules, 3 m	NC	MZT8-1V9N0-KUA	1094836
	NO	MZT8-03VNS-KUA	1068912
		MZT8-03VPS-KUA	1044466
		MZT8-1V9NS-KUA	1093836
		MZT8-28VNS-KUA	1068535
		MZT8-2V8NS-KUAS31	1092766
Cable, 3-wire, ferrules, 5 m	NO	MZT8-03VPS-KUB	1044470
		MZT8-03VPS-KWB	1048314
		MZT8-1V9PS-KUB	1071438
		MZT8-28VPS-KUB	1075262
		MZT8-28VPS-KWB	1057030
		MZT8-2V6PSTKWB	1073270
Cable, 3-wire, ferrules, 9 m	NO	MZT8-03VNS-KUDS28	1091033

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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."

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