



MZT8

Cylinder sensors with precise switching point for T-slot

SENSORS FOR T-SLOT CYLINDERS

SICK
Sensor Intelligence.



Technical data overview

Output function	NO / NC (depending on type)
Special features	20 ms pulse stretching (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 (depending on type)
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 through 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/MGT8

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

Connection type	Switching output	Output function	Type	Part no.
Cable with M12 male connector, 4-pin, 0.3 m	PNP	NO	MGT8-1V9PS-KQ0S34	1101002
Cable with MOLEX-connector, 3-pin, 0.16 m	NPN	NO	MGT8-03VNS-KUDS29	1092473
Cable with MOLEX-connector, 3-pin, 0.36 m	NPN	NO	MGT8-03VNS-KUDS30	1092474
Cable with connector M12, 4-pin, with knurled nuts, 0.3 m	PNP	NO	MGT8-03VPS-KQ0	1044460
			MGT8-28VPS-KQ0	1048051
			MGT8-2V8PSWKQ0S40	1135895
Cable with connector M12, 4-pin, with knurled nuts, 0.5 m	PNP	NO	MGT8-28VPS-KQD	1058311
Cable with connector M12, 4-pin, with knurled nuts, 1 m	PNP	NO	MGT8-03VPS-KQD	1058317
Cable with connector M8, 3-pin, 0.12 m	PNP	NO	MGT8-03VPS-KPDS38	1121966
Cable with connector M8, 3-pin, 0.3 m	NPN	NO	MGT8-03VNS-KP0	1044932
	PNP	NC	MGT8-03VPO-KP0	1044930
		NO	MGT8-03VPS-KP0	1044458
			MGT8-03VPS-KP0S06	1053415
			MGT8-19VPS-KP0	1053014
			MGT8-28VPS-KP0	1048048
			MGT8-28VPS-KP0S10	1054250
			MGT8-2V6PSTKP0	1073268
			MGT8-03VPS-KPD	1044461
Cable with connector M8, 3-pin, 0.75 m	PNP	NO	MGT8-03VPS-KRD	1044464
Cable with connector M8, 3-pin, with knurled nuts, 0.3 m	PNP	NO	MGT8-03VPS-KRDS04	1048502
			MGT8-03VPS-KRDS12	1067400

Connection type	Switching output	Output function	Type	Part no.
Cable with connector M8, 3-pin, with knurled nuts, 0.5 m	NPN	NC	MZT8-03VNO-KRDS16	1069395
		NO	MZT8-03VNS-KR0	1044935
			MZT8-03VNS-KRDS15	1069394
	PNP	NC	MZT8-03VPO-KRDS14	1069393
		NO	MZT8-03VPS-KR0	1044459
			MZT8-03VPS-KR0S01	1046374
			MZT8-03VPS-KR0S05	1048503
			MZT8-03VPS-KRDS13	1069392
			MZT8-28VPS-KR0	1048050
			MZT8-28VPS-KR0S02	1048174
Cable with connector M8, 3-pin, with knurled nuts, 2 m	PNP	NO	MZT8-03VPS-KRDS35	1106079
Cable with connector M8, 3-pin, with knurled nuts, 5 m	PNP	NO	MZT8-03VPS-KRB	1044463
Cable with male connector, M12, 4-pin, with knurled screws, with PTFE hose, 0.5 m	PNP	NO	MZT8-2V8PSWKQDS39	1127307
Cable with male connector, M8, 3-pin, with knurled screws, with PTFE hose, 0.5 m	PNP	NO	MZT8-2V8PSWKR0	1109451
Cable, 3-wire, 10 m	PNP	NC	MZT8-03VPO-KUD	1060429
		NO	MZT8-03VPS-KUD	1054051
			MZT8-2V6PSTKWD	1073271
Cable, 3-wire, 2.5 m	PNP	NO	MZT8-03VPS-KUDS08	1054237
Cable, 3-wire, 2 m	NPN	NO	MZT8-03VNS-KU0	1044934
			MZT8-03VNS-KW0	1044468
			MZT8-2V6NSTKW0	1088313
	PNP	NC	MZT8-03VPO-KU0	1044931
		NO	MZT8-03VPS-KU0	1044469
			MZT8-03VPS-KW0	1044349
			MZT8-28VPS-KU0	1048049
			MZT8-2V6PSTKW0	1073269
Cable, 3-wire, 3.6 m	PNP	NO	MZT8-03VPS-KUDS09	1054238

Connection type	Switching output	Output function	Type	Part no.
Cable, 3-wire, 3 m	NPN	NC	MZT8-1V9NO-KUA	1094836
		NO	MZT8-03VNS-KUA	1068912
			MZT8-1V9NS-KUA	1093836
			MZT8-28VNS-KUA	1068535
			MZT8-2V8NS-KUAS31	1092766
	PNP	NO	MZT8-03VPS-KUA	1044466
Cable, 3-wire, 5 m	PNP	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, 9 m	NPN	NO	MZT8-03VNS-KUDS28	1091033

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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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