



MZT6

Widest portfolio for versatile tasks

SICK
Sensor Intelligence.



Technical data overview

Output function	NO / NC (depending on type)
Special features	Switching width approx. 9 mm
Cylinder types with adapter	Profile cylinder Tie rod cylinder Round body cylinder Dovetail groove cylinder SMC rail CDQ2 SMC rail ECDQ2
Housing length	31.5 mm
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Product description

The MZT6 magnetic cylinder sensor is used for determining the positions of pistons in pneumatic cylinders. The MZT6 can be mounted by dropping it directly into the T-slot from above. With the patented GMR (giant magneto-resistive) technology from SICK and SICK ASIC (application-specific integrated circuit), the switching response of the MZT6 is unsurpassed. The MZT6 features a leakproof design that is highly resistant to shock, vibration and liquids, making it suitable for harsh environments.

At a glance

- Compact housing design
- Combined Allen and flathead installation screw
- LED function indicator
- For all commonly used cylinders with T-slots, e.g., Festo or SMC and it can be applied to multiple cylinders types such as round, tie-rod, integrated profile or dove-tail cylinders with mounting brackets

Your benefits

- Reduced maintenance cost as the sensor keeps its position under shock and vibration and does not move out
- Convenient installation and sensor replacement due to drop-in installation – installer does not need to disassemble the cylinder from the machine for sensor replacement.
- Flexible installation via Allen wrench or flathead screwdriver
- Leakproof design with high resistance to liquids increases application reliability

Ordering information

Other models and accessories → www.sick.com/MZT6

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

Connection type	Switching output	Output function	Type	Part no.
Cable with connector M12, 3-pin, 0.3 m	PNP	NO	MZT6-03VPS-KQ0	1025550
	NPN	NO	MZT6-03VNS-KP0	1029402
Cable with connector M8, 3-pin, 0.3 m	PNP	NC	MZT6-03VPO-KP0	1028741
		NO	MZT6-03VPS-KP0	1023971
				MZT6-03VPS-KPOS08

Connection type	Switching output	Output function	Type	Part no.
Cable with connector M8, 3-pin, 0.75 m	PNP	NO	MZT6-03VPS-KPD	1025642
Cable with connector M8, 3-pin, with knurled nuts, 0.3 m	PNP	NC	MZT6-03VPO-KRD	1048294
		NO	MZT6-03VPS-KRD	1025872
Cable with connector M8, 3-pin, with knurled nuts, 0.5 m	PNP	NO	MZT6-03VPS-KRO	1023972
			MZT6-03VPS-KROS02	1041848
Cable with connector M8, 3-pin, with knurled nuts, 5 m	PNP	NO	MZT6-03VPS-KRB	1027089
Cable, 3-wire, 10 m	PNP	NC	MZT6-03VPO-KWD	1029639
			MZT6-03VPS-KUD	1064723
		NO	MZT6-03VPS-KWD	1026246
			MZT6-03VPS-KWDS09	1044214
Cable, 3-wire, 2 m	NPN	NO	MZT6-03VNS-KW0	1029401
	PNP	NO	MZT6-03VPS-KU0	1043369
			MZT6-03VPS-KW0	1023970
			MZT6-35VPS-KUBS10	1049012
Cable, 3-wire, 5 m	PNP	NO	MZT6-03VPS-KUB	1043407
			MZT6-03VPS-KWB	1025809

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