

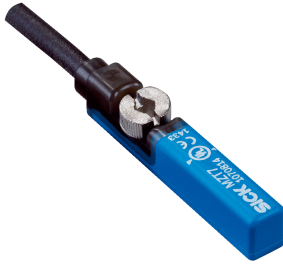


MZT7

Magnetic cylinder sensors with optimal price-performance ratio for T-slot

SENSORS FOR T-SLOT CYLINDERS

SICK
Sensor Intelligence.



Technical data overview

Output function	NO / NC (depending on type) (depending on type)
Special features	2 x label holders attached Two sensor heads on one plug (depending on type) (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	29.5 mm
Supply voltage	10 V DC ... 30 V DC

Product description

The SICK MZT7 magnetic cylinder sensor with GMR technology reliably detects the piston position in pneumatic drives. The MZT7 can be mounted directly into all cylinders with standard T-slots. SICK also has an extensive range of adapters which enable the MZT7 to be used with other cylinder types. The MZT7 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.

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
- Drop-in mounting from above simplifies handling and assembly
- Combined fixing screw (hexagon socket screw and slotted screw)
- LED for indicating the output state
- Enclosure rating: IP 67

Your benefits

- A sensor for a wide range of applications: The sensor design fits into all standard T-slots used around the world, regardless of the cylinder profile or make
- Simple mounting: Thanks to the retaining ribs on the side, the sensor holds its position even before the screw is tightened, ensuring that it does not fall out
- Fast mounting: The sensor is fixed quickly and securely in the slot simply by rotating the fixing screw a quarter turn
- The rugged fixing screw holds the sensor in the required position, even when exposed to shock and vibration
- It is easy to replace the sensor during servicing without removing the end caps

Fields of application

- Packaging machines
- Handling and assembly technology
- Woodworking machines
- Electronics production
- Textile machinery
- Special machine construction

Ordering information

Other models and accessories → www.sick.com/MZT7

- **Connection type:** Cable, 3-wire
- **Enclosure rating:** IP65, IP67
- **Supply voltage:** 10 V DC ... 30 V DC
- **Electrical wiring:** DC 3-wire

Switching output	Output function	Overrun distance, typ.	Type	Part no.
NPN	NC	3 mm	MZT7-2V2NO-KUO	1112160
		10 mm	MZT7-03VNO-KUO	1070832
	NO	3 mm	MZT7-2V2NS-KUO	1112159
		10 mm	MZT7-03VNS-KUO	1070831
			MZT7-03VNS-KUB	1070835
			MZT7-03VNS-KW0	1070840
			MZT7-03VNS-KWB	1070844
PNP	NC	3 mm	MZT7-2V2PO-KUO	1112158
		10 mm	MZT7-03VPO-KUO	1070830
			MZT7-03VPO-KUDS11	1094617
	NO	3 mm	MZT7-2V2PS-KUO	1112225
			MZT7-2V2PS-KW0	1092259
		10 mm	MZT7-03VPS-KUO	1070829
			MZT7-03VPS-KUB	1070833
			MZT7-03VPS-KUD	1070837
			MZT7-03VPS-KUDS06	1085193
			MZT7-03VPS-KUDS15	1105431
			MZT7-03VPS-KW0	1070838
			MZT7-03VPS-KWB	1070842
			MZT7-03VPS-KWD	1089027

- **Connection type:** Cable, 3-wire, wire end ferrule
- **Switching output:** PNP
- **Output function:** NO

Overrun distance, typ.	Enclosure rating	Supply voltage	Electrical wiring	Type	Part no.
10 mm	IP65, IP67	10 V DC ... 30 V DC	DC 3-wire	MZT7-03VPS-KUDS16	1108567

- **Connection type:** Cable with connector M8, 3-pin
- **Overrun distance, typ.:** 10 mm
- **Enclosure rating:** IP65, IP67
- **Supply voltage:** 10 V DC ... 30 V DC
- **Electrical wiring:** DC 3-wire

Switching output	Output function	Type	Part no.
NPN	NC	MZT7-03VNO-KP0	1070820
	NO	MZT7-03VNS-KP0	1070819
PNP	NC	MZT7-03VPO-KP0	1070818
	NO	MZT7-03VPS-KP0	1070814
		MZT7-03VPS-KPD	1104369

- **Connection type:** Cable with connector M8, 3-pin, with knurled nuts
- **Output function:** NO
- **Overrun distance, typ.:** 10 mm
- **Enclosure rating:** IP65, IP67
- **Supply voltage:** 10 V DC ... 30 V DC
- **Electrical wiring:** DC 3-wire

Switching output	Type	Part no.
NPN	MZT7-03VNS-KR0	1070823
	MZT7-03VNS-KRD	1089066
PNP	MZT7-03VPS-KR0	1070821
	MZT7-03VPS-KROS03	1084694
	MZT7-03VPS-KRD	1082422
	MZT7-03VPS-KRDS04	1084695
	MZT7-03VPS-KRDS08	1088702
	MZT7-03VPS-KRDS10	1094040

- **Connection type:** Cable with connector M12, 3-pin, with knurled nuts
- **Output function:** NO
- **Overrun distance, typ.:** 10 mm
- **Enclosure rating:** IP65, IP67
- **Supply voltage:** 10 V DC ... 30 V DC
- **Electrical wiring:** DC 3-wire

Switching output	Type	Part no.
NPN	MZT7-03VNS-KQ0	1070827
PNP	MZT7-03VPS-KQ0	1070825

- **Connection type:** Cable with connector M8, 4-pin, with knurled nuts
- **Switching output:** PNP
- **Output function:** NO

Overrun distance, typ.	Enclosure rating	Supply voltage	Electrical wiring	Type	Part no.
10 mm	IP65, IP67	10 V DC ... 30 V DC	DC 3-wire	MZT7-03VPS-KRTS13	1104066

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