



## MZT7

Cylinder sensors with very good price-performance ratio for T-slot

**SICK**  
Sensor Intelligence.



## Technical data overview

<b>Output function</b>	NO / NC (depending on type)
<b>Special features</b>	Two sensor heads on one plug
<b>Cylinder types with adapter</b>	Profile cylinder Tie rod cylinder Round body cylinder Dovetail groove cylinder SMC rail CDQ2 SMC rail ECDQ2
<b>Housing length</b>	29.5 mm

## Product description

The SICK MZT7 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

- End position detection in pneumatic cylinders

## Ordering information

Other models and accessories → [www.sick.com/MZT7](http://www.sick.com/MZT7)

- **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

- **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-KU0	1112160
		10 mm	MZT7-03VNO-KU0	1070832
	NO	3 mm	MZT7-2V2NS-KU0	1112159
		10 mm	MZT7-03VNS-KU0	1070831
			MZT7-03VNS-KUB	1070835
			MZT7-03VNS-KW0	1070840
			MZT7-03VNS-KWB	1070844
		PNP	NC	3 mm
10 mm	MZT7-03VPO-KU0			1070830
	MZT7-03VPO-KUDS11			1094617
NO	3 mm		MZT7-2V2PS-KU0	1112225
			MZT7-2V2PS-KW0	1092259
	10 mm		MZT7-03VPS-KU0	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-KR0S03	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

## 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](http://www.sick.com)