



## RZT7

Reed contact cylinder sensors for T-slot

SENSORS FOR T-SLOT CYLINDERS

**SICK**  
Sensor Intelligence.



### Technical data overview

<b>Output function</b>	NO NC NC or NO (depending on type) (depending on type)
<b>Special features</b>	Extended operating temperature
<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 / 32.5 mm (depending on type) (depending on type)
<b>Supply voltage</b>	5 V AC/DC ... 30 V AC/DC 5 V AC/DC ... 230 V AC/DC <sup>1)</sup> 5 V AC/DC ... 120 V AC/DC <sup>2)</sup> 10 V AC/DC ... 48 V AC/DC <sup>3)</sup> (depending on type)

<sup>1)</sup> Mains fuse F < 0.5 A IEC60127-2 sheet 1.

<sup>2)</sup> Mains fuse F < 0.8 A IEC60127-2 sheet 1.

<sup>3)</sup> Rated supply voltage: Contains all fluctuations of the supply voltage.

### Product description

The SICK RZT7 magnetic cylinder sensor with reed contact reliably detects the piston position in pneumatic drives. The RZT7 can be mounted directly into all cylinders with standard T-slots. SICK also has an extensive range of adapters which enable the RZT7 to be used with other cylinder types. The RZT7 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 (depending on type)
- Enclosure rating: IP 67
- Supply voltage up to 230 V

### 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/RZT7](http://www.sick.com/RZT7)

- **Connection type:** Cable, 2-wire
- **Switching output:** Reed
- **Overrun distance, typ.:** 10 mm
- **Enclosure rating:** IP65, IP67
- **Electrical wiring:** AC/DC 2-wire

Output function	Supply voltage	Type	Part no.
NC	5 V AC/DC ... 120 V AC/DC	RZT7-03ZVO-KW0	1070866
		RZT7-03ZVO-KWDS19	1115151
NO	10 V AC/DC ... 30 V AC/DC	RZT7-03ZUSTKUA	1093627
		RZT7-03ZUSTKUB	1120494
	5 V AC/DC ... 230 V AC/DC	RZT7-03ZWS-KU0	1070869
		RZT7-03ZWS-KUB	1070870
		RZT7-03ZWS-KW0	1070871
		RZT7-03ZWS-KWB	1070872
	5 V AC/DC ... 30 V AC/DC	RZT7-03ZUS-KU0	1070861
		RZT7-03ZUS-KUB	1070863
		RZT7-03ZUS-KW0	1070865
		RZT7-03ZUS-KWB	1070867

- **Connection type:** Cable with connector M8, 3-pin
- **Switching output:** Reed
- **Overrun distance, typ.:** 10 mm
- **Enclosure rating:** IP65, IP67

Output function	Supply voltage	Electrical wiring	Type	Part no.
NC	10 V AC/DC ... 48 V AC/DC	AC/DC 2-wire	RZT7-03ZUO-KPOS13	1103085
NO	5 V AC/DC ... 30 V AC/DC	AC/DC 2-wire	RZT7-03ZUS-KP0	1070855
		AC/DC 3-wire	RZT7-03ZRS-KP0	1070847

- **Connection type:** Cable with connector M8, 3-pin, with knurled nuts
- **Switching output:** Reed
- **Output function:** NO
- **Overrun distance, typ.:** 10 mm
- **Enclosure rating:** IP65, IP67
- **Supply voltage:** 5 V AC/DC ... 30 V AC/DC

Electrical wiring	Type	Part no.
AC/DC 2-wire	RZT7-03ZUS-KR0	1070857
AC/DC 3-wire	RZT7-03ZRS-KR0	1070848
	RZT7-03ZRS-KRD	1085067
	RZT7-03ZRS-KRDS20	1121860

- **Connection type:** Cable with connector M12, 3-pin, with knurled nuts
- **Switching output:** Reed
- **Overrun distance, typ.:** 10 mm
- **Enclosure rating:** IP65, IP67
- **Supply voltage:** 5 V AC/DC ... 30 V AC/DC

Output function	Electrical wiring	Type	Part no.
NC	AC/DC 2-wire	RZT7-03ZU0-KQ0	1082730
		RZT7-03ZU0-KQ0S17	1109287
NC or NO	AC/DC 3-wire	RZT7-03ZUP-KQ0S18	1110064
NO	AC/DC 2-wire	RZT7-03ZUS-KQ0	1070859
	AC/DC 3-wire	RZT7-03ZRS-KQ0	1070849

- **Connection type:** Cable, 3-wire
- **Switching output:** Reed
- **Output function:** NO
- **Overrun distance, typ.:** 10 mm
- **Enclosure rating:** IP65, IP67
- **Supply voltage:** 5 V AC/DC ... 30 V AC/DC
- **Electrical wiring:** AC/DC 3-wire

Type	Part no.
RZT7-03ZRS-KU0	1070850
RZT7-03ZRS-KUB	1070851
RZT7-03ZRS-KW0	1070852
RZT7-03ZRS-KWB	1070853
RZT7-03ZRS-KWD	1070854

## 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)