# RZT7

Reed contact cylinder sensors for T-slot

**SICK**
Sensor Intelligence.

# RZT7
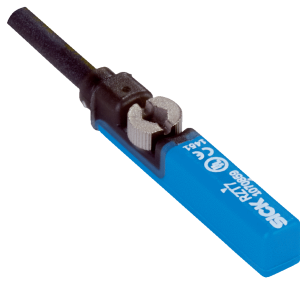
## Technical data overview

| | |
|---|---|
| **Output function** | NO<br>NC<br>NC or NO  (depending on type) |
| **Special features** | Extended operating temperature |
| **Cylinder types with adapter** | Profile cylinder<br>Tie rod cylinder<br>Round body cylinder<br>Dovetail groove cylinder<br>SMC rail CDQ2<br>SMC rail ECDQ2 |
| **Housing length** | 29.5 mm / 32.5 mm  (depending on type) |

## Product description

The SICK RZT7 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

- End position detection in pneumatic cylinders

## Ordering information

Other models and accessories ➜ 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 | RZT7-03ZV0-KW0 | 1070866 |
|  |  | RZT7-03ZV0-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 | RZT7-03ZU0-KP0S13 | 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 |

# RZT7

- **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 |
| 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**

SICK AG   |   Waldkirch   |   Germany   |   www.sick.com

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