



## Magnetic Cylinder Sensors Sensors for T-slot cylinders

RZT6-03ZRS-KP0S10



**Model Name** > [RZT6-03ZRS-KP0S10](#)  
**Part No.** > [1064569](#)



#### At a glance

- Compact housing design
- Enclosure rating: IP 68 / IP 69K
- Combined Allen and flathead fixing 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

- High resistance to shock, vibration and liquids
- Drop-in T-slot mounting from above makes assembly easy
- Easy installation with Allen wrench or flat head screwdriver



#### Features

|                              |                                                                                                                                                                |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Output type:                 | Reed                                                                                                                                                           |
| Output function:             | NO                                                                                                                                                             |
| Electrical wiring:           | AC/DC 3-wire                                                                                                                                                   |
| Enclosure rating:            | IP 68                                                                                                                                                          |
| Sensing face:                | Front                                                                                                                                                          |
| Cylinder types with adapter: | Profile cylinder<br>Roundbody cylinder<br>Dove-tail groove cylinder<br>SMC rail cylinder CDQ2 (T-Slot)<br>SMC rail cylinder ECDQ2 (T-Slot)<br>Tie rod cylinder |
| Housing length:              | 31.5 mm                                                                                                                                                        |
| Switching frequency typ.:    | ± 400 Hz                                                                                                                                                       |
| Cylinder type:               | T-slot                                                                                                                                                         |

<sup>1)</sup> According to EN 60529

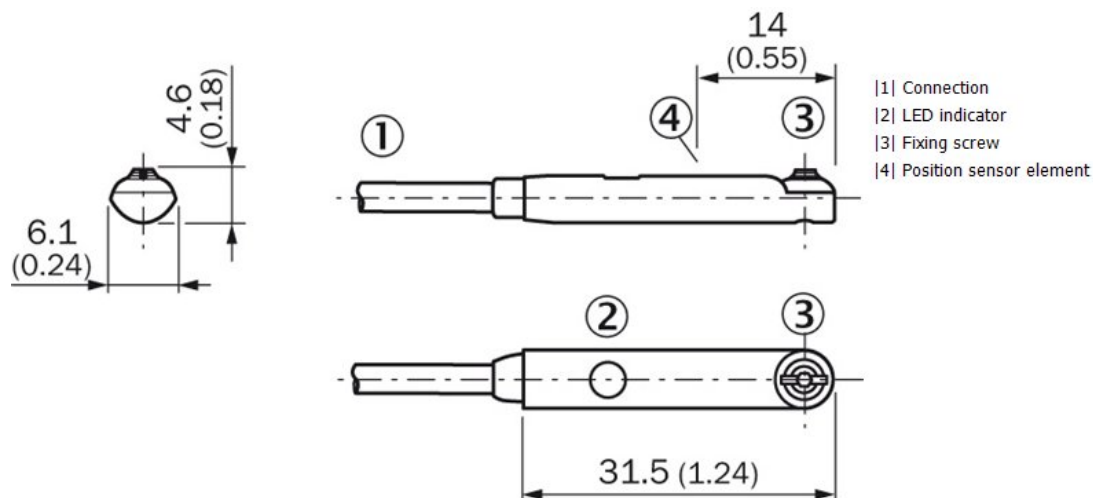
#### Mechanics/electronics

|                                 |                                       |
|---------------------------------|---------------------------------------|
| Connection type:                | Cable with connector M8, 3-pin, 0.3 m |
| Supply voltage:                 | 10 V AC/DC ... 30 V AC/DC             |
| Power consumption:              | ≤ 10 mA <sup>1)</sup>                 |
| Voltage drop:                   | ≤ 0.1 V                               |
| Output current I <sub>a</sub> : | ≤ 500 mA                              |

|                                   |                                                 |
|-----------------------------------|-------------------------------------------------|
| Hysteresis:                       | > 0.5 mT                                        |
| Repeatability:                    | $\leq 0.1 \text{ mT}^{2)}$                      |
| EMC:                              | According to EN 60947-5-2                       |
| Cable material:                   | PUR                                             |
| Short-circuit protection:         | -                                               |
| Housing material:                 | Plastic                                         |
| Sensing face material:            | Plastic                                         |
| Ambient operating temperature:    | -30 °C ... 80 °C                                |
| Thread size:                      | M8                                              |
| Magnetic field sensitivity, min.: | 3 mT                                            |
| ATEX marking:                     | Ex II 3D T100 °C IP 67, Ex II 3G EEx nA II T4 X |
| Overrun distance typ.:            | 9 mm                                            |
| Hazardous area category:          | 3D, 3G                                          |
| Shock/vibration:                  | 30 g, 11 ms/10 ... 55 Hz, 1 mm                  |
| Switching power:                  | 6 W                                             |

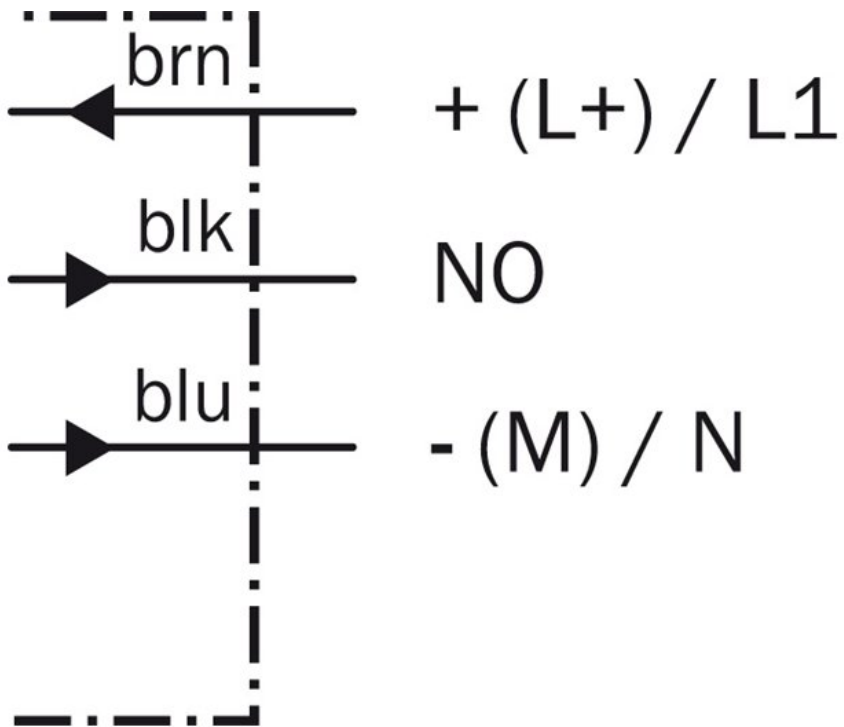
1) Without load 2)  $U_b$  and  $T_a$  constant

## Dimensional drawing



# Connection diagram

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