RZC1

Reed contact cylinder sensors for C-slot

SICK
Sensor Intelligence.

RZC1

Technical data overview

Output function	NO
Cylinder types with adapter	SMC rail CDQ2 SMC rail ECDQ2
Housing length	26.3 mm

Product description

The RZC1 cylinder sensor with reed contact from SICK is the flexible solution for detecting the piston position in pneumatic actuators. The RZC1 can be mounted directly into all cylinders with standard C-slots. SICK also has an extensive range of adapters which enable the RZC1 to be used with other cylinder types. The RZC1 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. Furthermore, the RZC1 is available in a range of variants up to an enclosure rating of IP 69K. This ensures the sensor has a long service life and reduces maintenance costs.

At a glance

- Can be used in all standard cylinders, linear slides, and grippers using the C-slot and – with the help of adapters – in round rod, tie-rod, and profile cylinders
- 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 ratings: IP 67, IP 68, IP 69K
- Supply voltage up to 120 V DC

Your benefits

- A sensor for a wide range of applications: The sensor design fits into all standard C-slots used around the world, regardless of the cylinder profile or make
- Quick and easy mounting using an Allen key or flat-head screwdriver
- Low maintenance costs as the sensor is resistant to shock and vibration, meaning it does not slide about in the slot
- Saves time on initial installation and when replacing devices as the sensor can be easily inserted into the slot from above. The end caps of the cylinder do not have to be removed.
- Very rugged housing with enclosure rating IP 67, IP 68, or IP 69K extends the service life of the sensor

Fields of application

- End position detection in pneumatic cylinders

Ordering information

Other models and accessories ➜ www.sick.com/RZC1

- **Connection type:** Cable, 2-wire, 2 m
- **Switching output:** Reed
- **Output function:** NO
- **Overrun distance, typ.:** 7 mm
- **Enclosure rating:** IP67
- **Electrical wiring:** AC/DC 2-wire

Supply voltage	Type	Part no.
5 V AC/DC ... 120 V AC/DC	RZC1-04ZUS-KU0	1059750
5 V AC/DC ... 30 V AC/DC	RZC1-04ZUS-KU0S01	1065397

- **Connection type:** Cable, 2-wire, 3 m
- **Switching output:** Reed
- **Output function:** NO

Overrun distance, typ.	Enclosure rating	Supply voltage	Electrical wiring	Type	Part no.
7 mm	IP67	5 V AC/DC ... 30 V AC/DC	AC/DC 2-wire	RZC1-04ZUS-KUAS02	1070035

- **Connection type:** Cable, 2-wire, 5 m
- **Switching output:** Reed
- **Output function:** NO

Overrun distance, typ.	Enclosure rating	Supply voltage	Electrical wiring	Type	Part no.
7 mm	IP67	5 V AC/DC ... 30 V AC/DC	AC/DC 2-wire	RZC1-04ZUS-KUBS03	1073286

- **Connection type:** Cable, 3-wire, 2 m
- **Switching output:** Reed
- **Output function:** NO

Overrun distance, typ.	Enclosure rating	Supply voltage	Electrical wiring	Type	Part no.
7 mm	IP68, IP69K	5 V AC/DC ... 30 V AC/DC	AC/DC 3-wire	RZC1-04ZRS-KU0	1059746

- **Connection type:** Cable, 3-wire, 5 m
- **Switching output:** Reed
- **Output function:** NO

Overrun distance, typ.	Enclosure rating	Supply voltage	Electrical wiring	Type	Part no.
7 mm	IP68, IP69K	5 V AC/DC ... 30 V AC/DC	AC/DC 3-wire	RZC1-04ZRS-KUB	1059749

- **Connection type:** cable with connector M8, 2-pin, 0.3 m
- **Switching output:** Reed
- **Output function:** NO

Overrun distance, typ.	Enclosure rating	Supply voltage	Electrical wiring	Type	Part no.
7 mm	IP67	5 V AC/DC ... 30 V AC/DC	AC/DC 2-wire	RZC1-04ZUS-KP0	1059751

- **Connection type:** Cable with connector M8, 3-pin, 0.3 m
- **Switching output:** Reed
- **Output function:** NO

Overrun distance, typ.	Enclosure rating	Supply voltage	Electrical wiring	Type	Part no.
7 mm	IP67	5 V AC/DC … 30 V AC/DC	AC/DC 3-wire	RZC1-04ZRS-KP0	1059747

- **Connection type:** Cable with connector M8, 3-pin, with knurled nuts, 0.5 m
- **Switching output:** Reed
- **Output function:** NO

Overrun distance, typ.	Enclosure rating	Supply voltage	Electrical wiring	Type	Part no.
7 mm	IP68	5 V AC/DC … 30 V AC/DC	AC/DC 3-wire	RZC1-04ZRS-KRD	1060130

- **Connection type:** Cable with connector M8, 3-pin, with knurled nuts, 0.3 m
- **Switching output:** Reed
- **Output function:** NO

Overrun distance, typ.	Enclosure rating	Supply voltage	Electrical wiring	Type	Part no.
7 mm	IP68	5 V AC/DC … 30 V AC/DC	AC/DC 3-wire	RZC1-04ZRS-KR0	1059748

- **Connection type:** Cable with connector M12, 3-pin, 0.3 m
- **Switching output:** Reed
- **Output function:** NO

Overrun distance, typ.	Enclosure rating	Supply voltage	Electrical wiring	Type	Part no.
7 mm	IP68	5 V AC/DC … 30 V AC/DC	AC/DC 3-wire	RZC1-04ZRS-KQ0	1059745

- **Connection type:** Cable with connector M12, with knurled nuts, 0.3 m
- **Switching output:** Reed
- **Output function:** NO

Overrun distance, typ.	Enclosure rating	Supply voltage	Electrical wiring	Type	Part no.
7 mm	IP67	5 V AC/DC … 120 V AC/DC	AC/DC 2-wire	RZC1-04ZVS-KQ0S04	1125038

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."

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