

# Slip rings

**Compact**

**Low-maintenance**

**SR060E**



In general slip rings are used to transmit power, signals or data from a stationary to a rotating platform.

The SR060E is a compact, economical slip ring for up to 3 power and 2 signal transmissions.

New innovative contact materials ensure long service life and extremely low-maintenance operation. The round shape with smooth surfaces and high protection level allows easy cleaning.

## Compact

- Dimensions 60 x 98 mm.
- Can be used as a pair starting from just 60 mm shaft distance of the sealing rollers.
- Various component configurations for the transmission paths, max. 3 x load and 2 x signal transmission.
- Easily accessible connections.
- Load current up to 20 A.

## Low-maintenance

- Maintenance cycles only every 100 million revolutions.
- No contact oil required.
- Easy cleaning – high protection level IP64.

## Applications for slip rings

Flowpack and blister packaging machines, robots and handling equipment, rotary tables

## Order code

for standard versions

**SR060E** - **XX** - **X** - **X** - **XX** **2** - **V100**

Type

**a**

**b**

**c**

**d**

**e**

**f**

**g**

**a** *Hollow shaft*

20 = ø 20 mm [0.79"]  
 21 = ø 21 mm [0.83"]  
 22 = ø 22 mm [0.87"]  
 24 = ø 24 mm [0.94"]  
 25 = ø 25 mm [0.98"]  
 (other diameters on request)

**b** *Number of signal / data channels*  
 0 or 2

**c** *Number of load channels*  
 0, 2 or 3

**d** *Max. load current*  
 0 = no load channels  
 1 = 16 A, 240 V AC/DC  
 2 = 20 A, 240 V AC/DC

**e** *Contact material signal / data channels*  
 0 = no signal / data channels  
 3 = silver / precious metal

**f** *Protection*  
 2 = IP64

**g** *Version number (options)*  
 V100 = without option  
 > V100 = option on request

## Technical data

<b>Hollow shaft diameter</b>	up to max. ø 25 mm [0.98"]
<b>Voltage/current loading</b>	
load channels	240 V AC/DC, max. 16 A
signal / data channels	240 V AC/DC, max. 20 A (order option 2) 48 V AC/DC, max. 2 A
<b>Contact resistance</b>	
load channels	≤ 1 Ohm (dynamic) <sup>1)</sup>
signal / data channels	≤ 0.1 Ohm (silver / precious metal) <sup>2)</sup>
<b>Insulation resistance</b>	10 <sup>3</sup> MOhm (at 500 V DC)
<b>Dielectric strength</b>	1000 V eff. (60 sec.)
<b>Speed max.</b>	500 min <sup>-1</sup>
<b>Torque</b>	< 0,2 Nm

<b>Service life</b>	typ. 500 million revolutions (at room temperature) depends on installation position
<b>Maintenance cycles</b>	first maintenance after 50 million revolutions, all further maintenance intervals after 100 million revolutions
<b>Maintenance</b>	contact oil not required
<b>Material pairing</b>	
load channels	copper / bronze
signal / data channels	silver / precious metal
<b>Operating temperature</b>	0°C ... +75°C [+32°F ... +167°F]
<b>Protection acc. to EN 60529</b>	IP64

1) Voltage measurement, ambient temperature, DC series connection, ohmic load, min. 4 A test current.

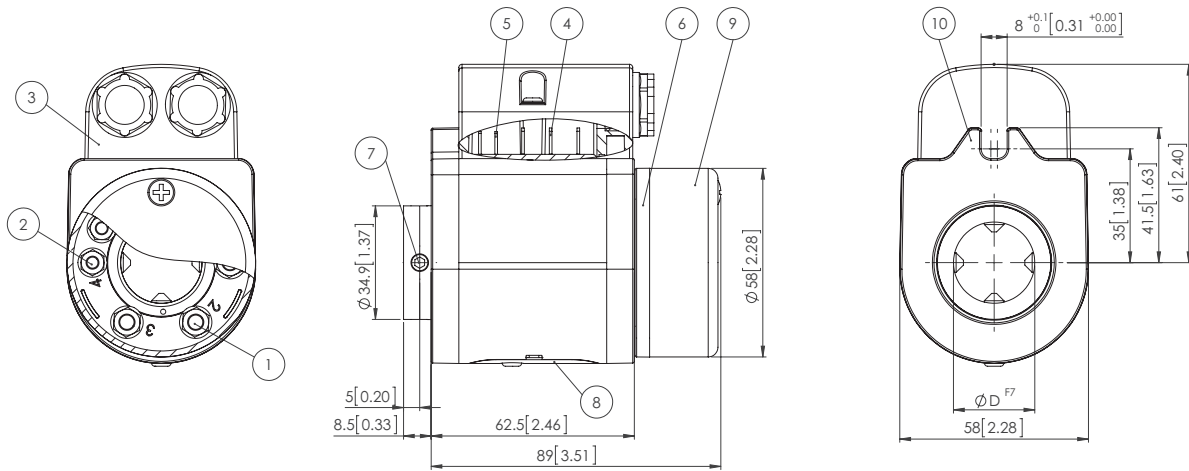
2) 2-wire resistance measurement, ambient temperature, 6.5-digit digital multimeter or similar, values without testing cable.

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## Dimensions

Dimensions in mm [inch]



- |   |   |                                      |
|---|---|--------------------------------------|
| 1 – Screw terminal M5 for load transmission                                       | 4 – Flat pin connection for load transmission   | 8 – Maintenance window               |
| 2 – Screw terminal M4 for signal transmission                                     | 5 – Flat pin connection for signal transmission | 9 – Protective cover for connections |
| 3 – Protective cover for the stator connections with screwed assembly (only IP64) | 6 – Rotating connection ring                    | 10 – Torque stop                     |
|   | 7 – 4 x socket set screw DIN 914 M6             |                                      |

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