

# Slip rings

<b>Compact</b>	<b>Low-maintenance</b>	<b>SR060U</b>
----------------	------------------------	---------------



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

The SR060U 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.

<b>Compact</b> <ul style="list-style-type: none"> <li>• Dimensions 60 x 98 mm.</li> <li>• Can be used as a pair starting from just 60 mm shaft distance of the sealing rollers.</li> <li>• Various component configurations for the transmission paths, max. 3 x load and 2 x signal transmission.</li> <li>• Easily accessible connections.</li> <li>• Load current up to 16 A.</li> </ul>	<b>Low-maintenance</b> <ul style="list-style-type: none"> <li>• Maintenance cycles only every 100 million revolutions.</li> <li>• No contact oil required.</li> <li>• Easy cleaning – high protection level IP64.</li> </ul>
<b>Applications for slip rings</b> Flowpack and blister packaging machines, robots and handling equipment, rotary tables	

<b>Order code</b> for standard versions	<b>SR060U - XX - X - X - XX 2 - V100</b>							
Type	<table border="1"> <tr> <td style="background-color: #cccccc;">a</td> <td style="background-color: #cccccc;">b</td> <td style="background-color: #cccccc;">c</td> <td style="background-color: #cccccc;">d</td> <td style="background-color: #cccccc;">e</td> <td style="background-color: #cccccc;">f</td> <td style="background-color: #cccccc;">g</td> </tr> </table>	a	b	c	d	e	f	g
a	b	c	d	e	f	g		
<b>a</b> 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"] 1N = ø 1 inch (other diameters on request)	<b>b</b> Number of signal / data channels 0 or 2  <b>c</b> Number of load channels 0, 2 or 3	<b>d</b> Max. load current 0 = no load channels 1 = 16 A, 240 V AC/DC	<b>e</b> Contact material signal / data channels 0 = no signal / data channels 3 = silver / precious metal	<b>f</b> Protection 2 = IP64  <b>g</b> 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, 50/60 Hz, max. 16 A
signal / data channels	Class 2, 48 V AC/DC, 50/60 Hz, 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>Rated surge strength</b>	U <sub>imp</sub> = 4kV
<b>Speed max.</b>	500 min <sup>-1</sup>
<b>Torque</b>	< 0.2 Nm
<b>Type of connection stator</b> <sup>3)</sup>	
load channels	flat pin 6.3 x 0.8 mm
signal / data channels	flat pin 2.8 x 0.8 mm
<b>Type of connection rotor</b> <sup>3)</sup>	
load channels	M5 connection screws
signal / data channels	M4 connection screws

<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 ... +45 °C [+32 °F ... +113 °F]
<b>Protection acc. to EN 60529</b>	IP64
<b>UL approval</b>	file no. E364011

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.  
 3) For the electrical connection, use marked copper cables terminated with insulated connectors suitable for the application..

# Slip rings

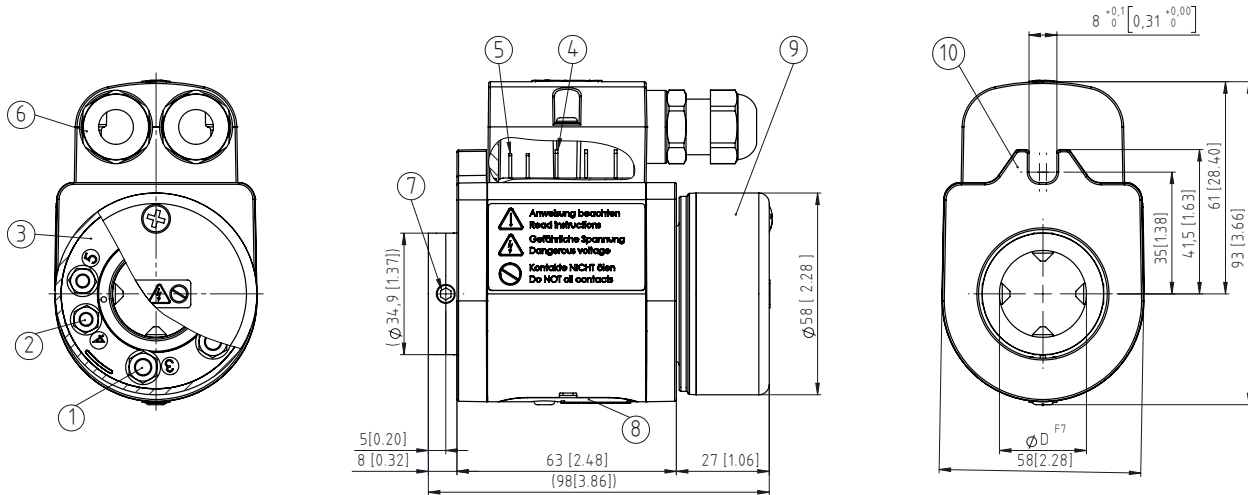
**Compact**

**Low-maintenance**

**SR060U**

## Dimensions

Dimensions in mm [inch]



- 1 – Screw terminal M5 for load transmission (rotor)
- 2 – Screw terminal M4 for signal transmission (rotor)
- 3 – Rotating connection ring
- 4 – Flat pin connection for power transmission

- 5 – Flat pin connection for signal transmission
- 6 – Protective cover for the stator connections with cable gland M16x1.5
- 7 – 4 x socket set screw DIN 914 M6x8

- 8 – Maintenance window
- 9 – Protective cover for rotation connections
- 10 – Torque stop