

# Slip rings

<b>Compact</b>	<b>Power and signal transmission</b>	<b>SR060U</b>
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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.



## 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 16 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

**SR060U - XX - X - X - XX 2 - V100**

Type      a      b      c      d      e      f      g

**a** *Hollow shaft*  
20 = ø 20 mm [0.79"]  
25 = ø 25 mm [0.98"]  
1N = ø 1 inch  
(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

**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

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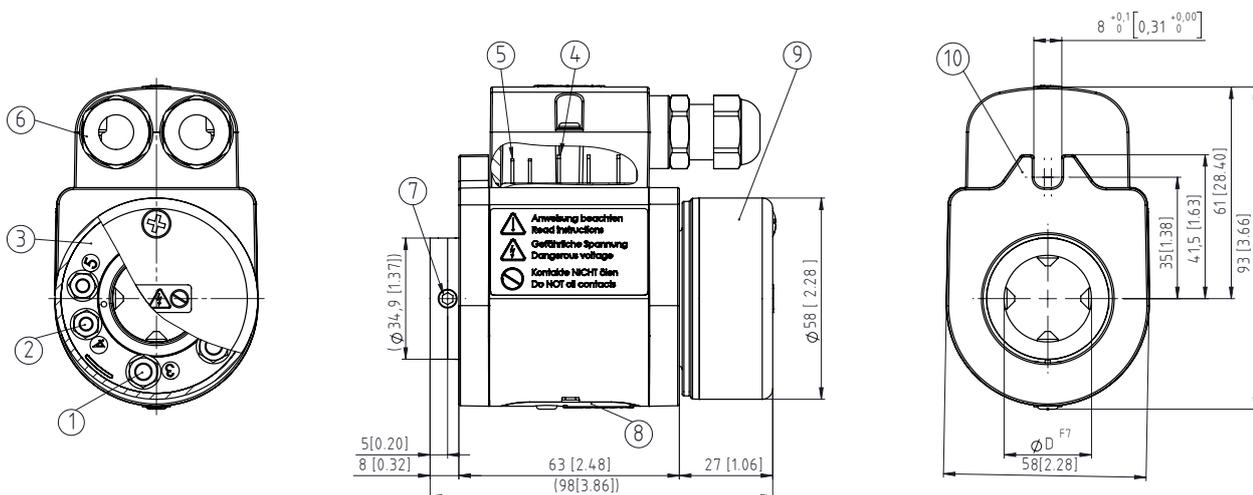
Technical data	
<b>Hollow shaft diameter</b>	up to max. $\varnothing$ 25 mm [0.98"]
<b>Voltage/current loading</b>	
load channels	240 V AC/DC, 50/60 Hz, max. 16 A
signal / data channels	Class 2, 48 V AC/DC, 50/60 Hz, max. 2 A
<b>Contact resistance</b>	
load channels	$\leq 1$ Ohm (dynamic) <sup>1)</sup>
signal / data channels	$\leq 0.1$ Ohm (silver / precious metal) <sup>2)</sup>
<b>Insulation resistance</b>	$10^3$ MOhm (at 500 V DC)
<b>Dielectric strength</b>	1000 V eff. (60 sec.)
<b>Rated surge strength</b>	$U_{imp} = 4$ kV
<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 / brass
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

Types of connection	
<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

Approvals	
<b>UL compliant</b> in accordance with	File-Nr. E364011
<b>CE compliant</b> in accordance with	
Low Voltage Directive	2014/35/EU
RoHS Directive	2011/65/EU

## Dimensions

Dimensions in mm [inch]



- |  |  |
|--|--|
| 1 – Screw terminal M5 for load transmission (rotor)          | 6 – Protective cover for the stator connections with cable gland M16x1.5 |
| 2 – Screw terminal M4 for signal transmission (rotor)        | 7 – 4 x socket set screw DIN 914 M6x8                                    |
| 3 – Rotating connection ring                                 | 8 – Maintenance window   |
| 4 – Flat pin connection for power transmission 6.3 x 0.8 mm  | 9 – Protective cover for rotation connections                            |
| 5 – Flat pin connection for signal transmission 2.8 x 0.8 mm | 10 – Torque stop   |

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.