## **Slip Rings**



Compact

**SR060** 



### **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 power and 2 x signal transmission

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

The transmission between the stator and rotor units occurs extremely reliably via sliding contacts.

The SR060 is a compact, economical slip ring for up to 3 power and 2 signal transmissions from a stationary to a rotating platform.

### Efficient

- Economical thanks to minimization of individual components, favourable mounting and component part design to suit
- Fully encapsulated in high-grade glass reinforced plastic housing shells
- Ideally suited for the heating of sealing drums (rollers) in packaging machines

### Application areas for slip rings

Packaging machines, textile machines, robots and handling equipment, pipeline inspection, video surveillance equipment (CCTV), bottling plants, rotary tables

Standard versions			Delivery time is 10 working days for a maximum o Larger quantities have a delivery time of 15 worki (or alternatively on request).	10510	
	Signal / data channels	Load channels	Contact material	Order-No.	
Hollow shaft 25 mm [0.98"]	2 x	3 x	silver/precious metal	SR060-25-2-3-131-V100	

Order code for standard versions	SR060 - XX - X - X Type 3 - 0 - 0			
<ul> <li>Hollow shaft</li> <li>20 = Ø 20 mm [0.79"]</li> <li>22 = Ø 22 mm [0.87"]</li> <li>24 = Ø 24 mm [0.94"]</li> </ul>	<ul> <li>Number of signal / data channels 0 or 2</li> </ul>	<ul> <li>Max. current loading</li> <li>0 = no load channels</li> <li>1 = 16 A, 240 V AC/DC</li> </ul>	<ul> <li>Contact material signal / data channels <sup>1)</sup></li> <li>no signal / data channels</li> <li>a silver / precious metal</li> </ul>	Protection <ol> <li>1 = IP50</li> <li>2 = IP64</li> </ol>
25 = Ø 25 mm [0.98"] (other diameters on request)	C Number of power (load) channels 0, 2 or 3		4 = silver / bronze	• Version number (options) V100 = without option > V100 = option on request

#### **Easily accessible connections**





Version with IP64 protection

1) Contact material gold/gold and copper/bronze on request



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### Contact material for electrical signal / data transmission

Contact material	Silver / Bronze	Silver / Precious metal
	contact brush	contact brush
Suitable for		
Very low currents and voltages	х	х
Digital and switching signals	х	х
Fieldbus signals		х
High shock and vibration levels	х	х
Intermittent operation (constant contact resistance < 0.1 ohm when stopped and when rotating)		x
Maintenance		
Contact oil not required for maintenance	х	х

# Calculation of time intervals for maintenance

Calculation of time intervals for maintenance with contact material silver/precious metal or silver/bronze (Maintenance intervals 100 million revolutions)

<u>100,000,000 revolutions</u> 200 rpm x 60 min x 24 h = 350 days

Technical data			
Hollow shaft diameter	up to max. ø 25 mm [0.98"]		
Voltage/current loading			
load channels	240 V AC/DC, max. 16 A		
signal channels	48 V AC/DC, max. 2 A		
Contact resistance			
(dynamic only with contact mate	erial copper/bronze and silver/bronze)		
load channel	≤ 1 Ohm		
signal channel	≤ 0.1 0hm		
Insulation resistance	10 <sup>3</sup> Ohm (at 500 V DC)		
Dielectric strength	1000 V eff. (60 sec.)		
Speed max.	500 rpm		

Service life	typ. 500 million revolutions (depends on installation position)
Maintenance cycles	first maintenance after 50 million revolutions, all further maintenance intervals after 100 million revolutions
	100 11111011 10001010115
Material pairing load channels	copper / bronze
Operating temperature	0° +75°C [+32°F +167°F]
Protection	max. IP64
Standards	VDE 0110 and VDE 0295/6.92

## **Slip Rings**



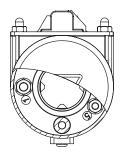
### Compact

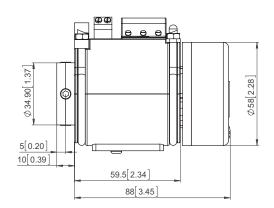
SR060

### Dimensions

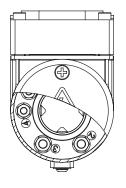
Dimensions in mm [inch]

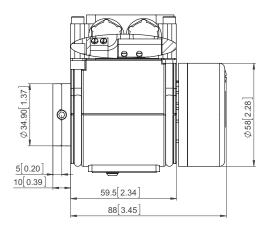
#### Version IP50

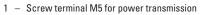




#### Version IP64



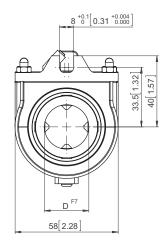


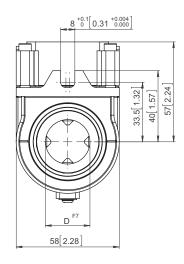


2 – Screw terminal M4 for signal transmission

3 - Terminal clamp for power without wire protection, with shock-hazard touch protection 4  $\,-\,$  Wire lead-in for power possible on both sides

- 5 Terminal clamp for signal transmission
- 6 Rotating connection ring
- 7 4 x socket set screw DIN 914 M6





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