

Slip Rings

Compact SR060E Low-maintenance

c Sus pending



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 power 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

Applications for slip rings

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

Order code for standard versions SR060E - XX - X - X - X X 2 - V100 Type Max. load current

signal / data channels

a Hollow shaft 20 = Ø 20 mm [0.79"] 22 = Ø 22 mm [0.87"] 24 = Ø 24 mm [0.94"] 25 = Ø 25 mm [0.98"]

(other diameters on request)

Number of load channels 0, 2 or 3

0 or 2

d Max. load current 0 = no load channels

1 = 16 A, 240 V AC/DC 2 = 20 A, 240 V AC/DC Contact material signal / data channels

0 = no signal / data channels

3 = silver / precious metal

4 = silver / bronze

Protection
Protection
Protection

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

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		
	240 V AC/DC, max. 20 A (order option 2)		
signal channels	48 V AC/DC, max. 2 A		
Contact resistance	dynamic only with contact material copper/bronze (load channel) and silver/bronze (data channel)		
load channel	≤ 1 0hm		
signal channel	≤ 0.1 0hm		
Insulation resistance	10 ³ Ohm (at 500 V DC)		
Dielectric strength	1000 V eff. (60 sec.)		
Speed max.	500 min ⁻¹		

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
Material pairing load channels	copper / bronze
Operating temperature	0°C +75°C [+32°F +167°F]
Protection	IP64
Standards	VDE 0110 and VDE 0295/6.92



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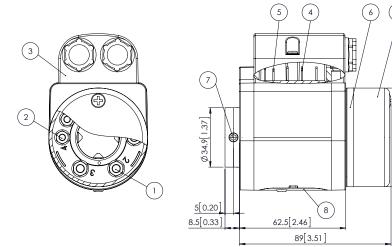
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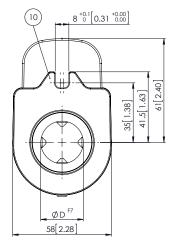
Contact material for electrical signal / data transmission

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

Dimensions

Dimensions in mm [inch]





- 1 Screw terminal M5 for power transmission
- 2 Screw terminal M4 for signal transmission
- 3 Protective cover for the stator connections with screwed assembly (only IP64)
- 4 Flat pin connection for power transmission

Ø 58[2.28]

- 5 Flat pin connection 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