

Compact and low-maintenance Slip rings SR060E

New generation of slip rings. The slip rings SR060E have been developed especially for the packaging industry. Their smooth and straight surfaces allow easy cleaning and therefore meet the requirements of the food processing industry.

Thanks to innovative contact materials, these slip rings do not require oiling any more. A particularly long service life is ensured.



Characteristics and advantages at a glance

- High load current transmission, up to 20A
 - ▶ Shorter and faster temperature control e.g. of sealing rollers
- IP64 protection level
 - ▶ Easy cleaning with a damp cloth or a water jet
- Innovative contact material silver/bronze, silver/precious metal
 - ▶ Vacuum cleaning is sufficient, no contact oil required, long service life
- 10 times longer maintenance intervals (100 million revolutions) than with conventional gold/gold wire slip rings
 - ▶ Less machine standstills, increased productivity

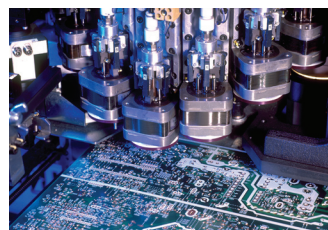


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information

Applications

On packaging devices, slip rings are in charge of the rotary transmission of currents, signals or data between stationary and rotating platforms. The SR060E is designed for up to 3 load and 2 signal transmissions and shows its strengths in many different applications:

from the heating and monitoring of the sealing rollers in blister or tubular bag machines (or Flow Pack) to the use in balancing devices and indexing tables.



Slip Rings

Compact

SR060E

Low-maintenance



c US 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 - XX 2 - V100

Type

a

b

c

d

e

f

g

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)

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
4 = silver / bronze

f Protection
2 = IP64

g 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
signal channels	240 V AC/DC, max. 20 A (order option 2)
	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 Ohm
signal channel	≤ 0.1 Ohm
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

Slip Rings

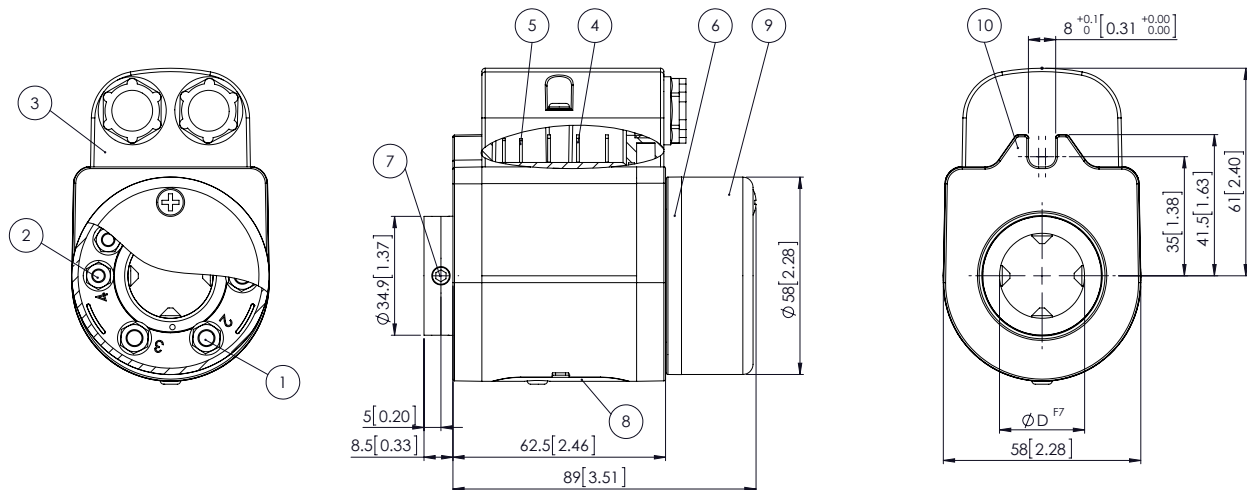
Compact	SR060E	Low-maintenance
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Contact material for electrical signal / data transmission

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

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
- 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