

Compact

Power and signal transmission

SR060E



Version V100

Version V200

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.
- Standard version V100 with load current up to 20 A.
- Version V200 with plug connectors for load and signal connections.

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.

V200 version:

Additional connection options through implementation of M12 connectors for easiest mounting and maintenance.

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

SR060E | -XX| -X| -X| -X| X| 2| -| VXXX

Type

a Hollow shaft
20 = ø 20 mm [0.79"]
25 = ø 25 mm [0.98"]
IN = ø 1 Inch
(others 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
(Version V200 max. 12 A)

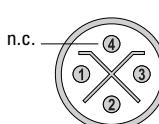
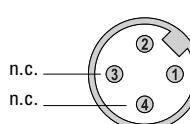
e Contact material signal / data channels
0 = no signal / data channels
3 = silver / precious metal

f Protection
2 = IP64

g Version number (options)
V100 = without option
V200 = with connectors
other options on request

Stock types
SR060E-25-2-3-132-V100
SR060E-25-2-2-132-V100

Slip rings

Compact	Power and signal transmission	SR060E
Technical data		Approvals
Hollow shaft diameter up to max. ø 25 mm [0.98"]		CE compliant in accordance with
Voltage/current loading		Low Voltage Directive 2014/35/EU
load channels 240 V AC/DC, 50/60 Hz, max. 20 A		RoHS Directive 2011/65/EU
signal / data channels 48 V AC/DC, 50/60 Hz, max. 2 A		
Contact resistance		
load channels ≤ 1 Ohm (dynamic) ¹⁾		
signal / data channels ≤ 0.1 Ohm (silver / precious metal) ²⁾		
Insulation resistance 10 ³ MΩ (at 500 V DC)		
Dielectric strength 1000 V eff. (60 sec.)		
Speed max. 500 min ⁻¹		
Torque < 0.2 Nm		
Service life typ. 500 million revolutions (at room temperature) depends on installation position		
Maintenance cycles first maintenance after 50 million revolutions, all further maintenance intervals after 100 million revolutions		
Maintenance contact oil not required		
Material pairing		
load channels copper / brass		
signal / data channels silver / precious metal		
Operating temperature 0 °C ... +75 °C [+32 °F ... +167 °F]		
Protection acc. to EN 60529 IP64		
Type of connection		
Connection stator	Load channels	Signal / data channels
Version V100	Flat pin 6.3 x 0.8 mm	Flat pin 2.8 x 0.8 mm
Version V200	M12 connector, 4-pin, S coded, male 	M12 connector, 4-pin, A coded, male 
Connection rotor	Load channels	Signal / data channels
Version V100 / V200	M5 connection screws	M4 connection screws

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.

Compact

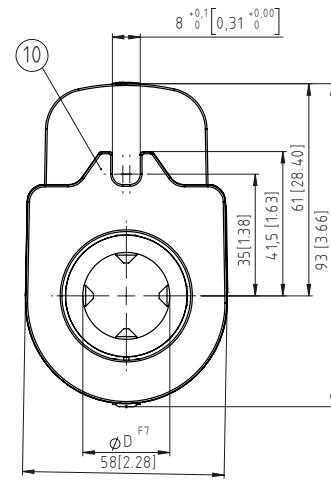
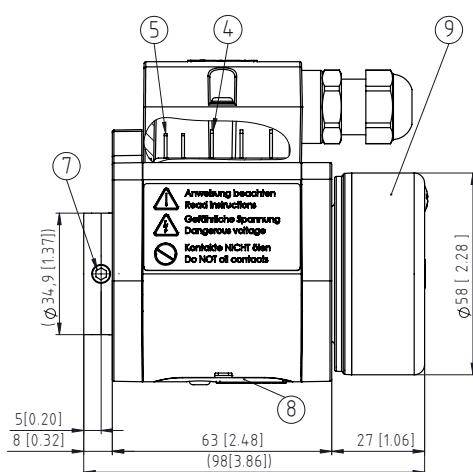
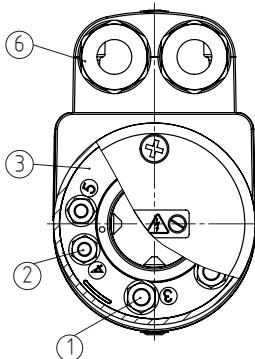
Power and signal transmission

SR060E

Dimensions

Dimensions in mm [inch]

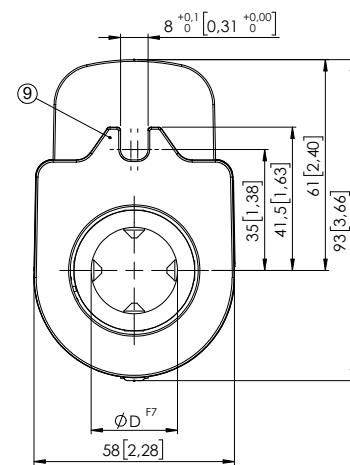
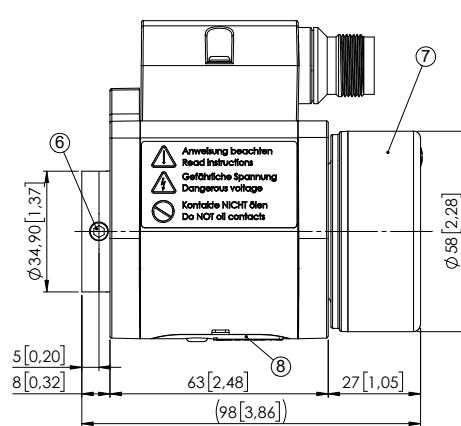
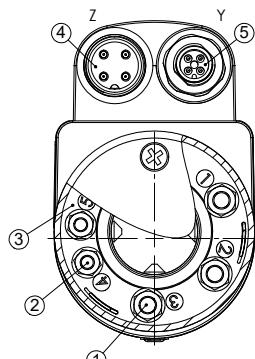
Standard version



- 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 6.3 x 0.8 mm
- 5 – Flat pin connection for signal transmission 2.8 x 0.8 mm

- 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

Version V200



- 1 – Screw terminal M5 for load transmission (rotor)
- 2 – Screw terminal M4 for signal transmission (rotor)
- 3 – Rotating connection ring
- 4 – M12 connector, 4-pin, S coded, male
- 5 – M12 connector, 4-pin, A coded, male

- 6 – 4 x socket set screw DIN 914 M6x8
- 7 – Protective cover for rotation connections
- 8 – Maintenance window
- 9 – Torque stop