

# Контактные кольца SR060E, SR085, SR085IE, SR120, SR060U, SRI085

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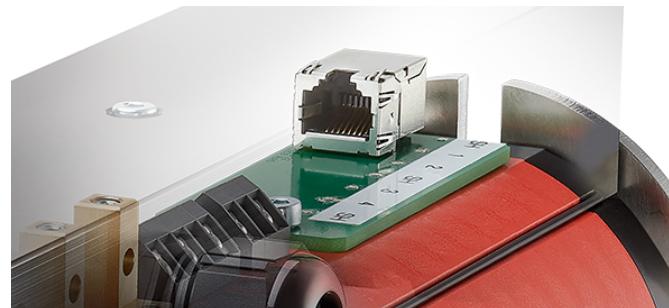
## Slip ring platform for standard applications

The modular slip rings of the “Base Line” are designed for a free usable hollow shaft of up to 30 mm or flange mounting. In addition, any form of customer-specific adaptation is possible, both mechanically and electrically.

			
	<b>SR060E</b>	<b>SR085 / SR085IE</b>	<b>SR120</b>
<b>Features</b>	<ul style="list-style-type: none"> <li>Modular design</li> <li>Factory pre-wiring</li> <li>Optionally with customized housing connector</li> <li>Also available in UL version</li> </ul>	<ul style="list-style-type: none"> <li>Modular design in modular system</li> <li>Flange or hollow shaft design</li> <li>Extremely robust GRP housing for industrial use</li> <li>Long service life and long maintenance cycles</li> <li>Real-time bus capable</li> </ul>	<ul style="list-style-type: none"> <li>Compact design with metal housing</li> <li>Flange or hollow shaft design</li> <li>Transmission of Ethernet, signal, power, pneumatic and hydraulic</li> <li>Customizable</li> <li>Low maintenance</li> </ul>
<b>Hollow shaft</b>	<b>max. 25 mm</b>	<b>max. 30 mm</b>	<b>max. 30 mm</b>
<b>Power, signal and data channels</b>	max. 2 signal channels max. 3 power channels	max. 20 power, signal and/or data channels for free configuration	> 20 power, signal and/or data channels for free configuration
<b>Power transmission</b>	<b>max. 20 A / 240 V</b> <ul style="list-style-type: none"> <li>Direct or alternating current</li> <li>One or three-phase, motor or heating current</li> </ul>	<b>max. 25 A / 400 V</b> <ul style="list-style-type: none"> <li>Direct or alternating current</li> <li>One or three-phase, motor or heating current</li> </ul>	<b>max. 25 A / 400 V</b> <ul style="list-style-type: none"> <li>Direct or alternating current</li> <li>One or three-phase, motor or heating current</li> </ul>
<b>Signal transmission</b>	<b>max. 5 A, 48 VDC / 60 VAC</b> <ul style="list-style-type: none"> <li>Digital switching signals (I/O)</li> <li>Thermocouple, PT100/1000, analog signals</li> </ul>	<b>max. 5 A, 48 VDC / 60 VAC</b> <ul style="list-style-type: none"> <li>Digital switching signals (I/O)</li> <li>Thermocouple, PT100/1000, analog signals</li> </ul>	<b>max. 5 A, 48 VDC / 60 VAC</b> <ul style="list-style-type: none"> <li>Digital switching signals (I/O)</li> <li>Thermocouple, PT100/1000, analog signals</li> </ul>
<b>Data transmission</b>	–	<ul style="list-style-type: none"> <li>Data module for I4.0 compatibility (e. g. IO-Link, Powerlink, SPE, EtherCAT)</li> <li>Max. 100 Mbit/s for Fast Ethernet transmission (100BASE-TX)</li> </ul>	<ul style="list-style-type: none"> <li>Data module for I4.0 compatibility (e. g. IO-Link, Powerlink, SPE, EtherCAT)</li> <li>Max. 100 Mbit/s for Fast Ethernet transmission (100BASE-TX)</li> <li>1 Gbit/s for Gigabit transmission (1000BASE-TX)</li> </ul>
<b>Media feedthrough</b>	–	<b>Air:</b> Standard tube diameter 8, 10, 12 mm	<b>Air:</b> Standard tube diameter 8, 10, 12 mm or customer specific <b>Liquids:</b> Single or multi-channel according to customer specification

## "High-end" transmission for Industry 4.0 / IIoT

The new slip ring platform "Base Line" fully supports the customer-side implementation of Industry 4.0 / IIoT concepts. For this purpose, Kübler slip rings are equipped with a transmission module for data rates of up to 1 Gbit/s. This operates completely without electronic components and thus enables interference-free, reliable and direct transmission. The Ethernet module is a bus-independent and cost-optimized solution for all common transmission protocols.



EtherNet/IP® PROFINET® EtherCAT® Conformance tested PROFIBUS® CANopen SAE J1939 IO-Link Modbus and many more

## Application examples



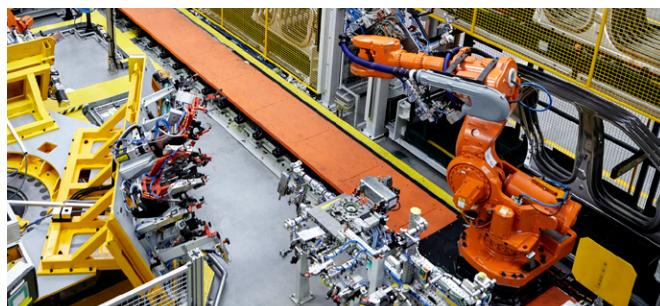
### **SR060E** – Numerous applications in Flow Pack systems

- Transmission of the heating current
- Feedback of the temperature sensor
- Plug-in terminals or housing plug (ECM module)



### **SR085** – Plants with rotary table or inspection systems

- Compact, robust design with extreme operating life
- Hollow shaft up to 30 mm or flange mounting
- Optional media feedthrough



### **SR085IE** – Plastic welding machines, process automation

- Fast Ethernet up to 100 MBit/s
- Easy mounting with cable outlet or plug connector
- Optional media feedthrough



### **SR120** – Filling and capping systems for liquids

- High level of customization with variable installation options
- Fast Ethernet (100 MBit/s) and Gigabit Ethernet (1 GBit/s)
- Compact, robust design with high customer orientation

## SR060E – Compact design

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 class allows easy cleaning.

- Dimensions 60 x 98 mm
- Can be used as a pair starting from just 60 mm shaft distance
- Various component configurations for the transmission paths, max. 3 x power and 2 x signal transmission
- Easily accessible connections
- Standard version V100 with power current up to 20 A
- Version V200 with plug connectors for power and signal connections



## SR120 – Modular design

The slip ring SR120 is ideal for applications requiring high transmission rates. The three chamber system allows parallel transmission of power, signals and data up to 1 Gbit/s.

- Reliable thanks to interference-proof transmission
- Transmission of Ethernet, signal, power, pneumatics and hydraulics
- Innovative contact technology, low-maintenance and durable
- Fieldbus or Ethernet up to 1 Gbit/s



## SR085 – Modular design

The SR085 is designed in a modular system for an optional combination of power and signal/data channels.

- Robust GRP housing (polycarbonate with glass fiber reinforcement) 30% glass fiber content for industrial use
- Long service life and long maintenance cycles
- Two-chamber system for power and signal transmission
- Labyrinth seal
- High vibration resistance
- Fieldbus signals such as Profibus, CANopen etc.  
up to 12 Mbit/s

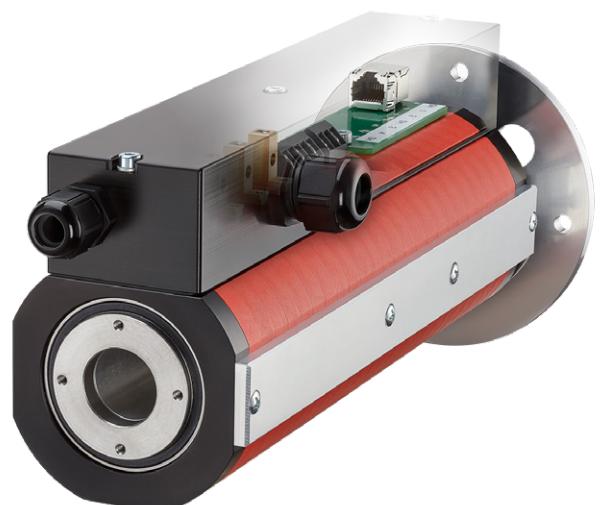


## SR085IE – For Industrial Ethernet transmission

For Industry 4.0 / IIoT concepts.

Expansion of the standard size 85 with an integrated Fast Ethernet module that enables a transmission rate of up to 100 Mbit/s. The connection for data transmission is made as standard via a CAT5e cable with RJ45 plug connection. Special customer-specific solutions can also be implemented on request, such as M-type industrial connectors of various codings and designs.

- Optional Ethernet module for transmission of all common Industrial Ethernet protocols
- Transmission of Industrial Ethernet up to 100 Mbit/s
  - Fast connection via RJ45 connector with CAT5e cable
  - Quick and easy replacement by user



## Technical data

Contact resistance power channels	≤ 1 Ohm (dynamic)
signal / data channels	≤ 0.1 Ohm (dynamic)
Insulation resistance	10 <sup>3</sup> MΩhm, at 500 V DC
Dielectric strength	1000 V eff. (60 sec.)
Maintenance cycles	Maintenance free (if necessary all 100 million revolutions)
Operating temperature	-35 °C ... +85 °C [-31 °F ... +185 °F]
Protection acc. to EN 60529	Up to IP64, higher on request

## Approvals

CE compliant in accordance with Low Voltage Directive	2014/35/EU

## Twisted Pair Ethernet standards

Name	10BASE-T	100BASE-TX	1000BASE-T
Speed	10 Mb/s	100 Mb/s	1 Gb/s
Standard	802.3i	802.3u	802.3ab
Wires used	2 twisted pairs	2 twisted pairs	4 twisted pairs
Comments	Runs over four wires on a Category 3 or Category 5 cable.	CAT5 copper cabling with two twisted pairs.	At least Category 5 cable, with Category 5e strongly recommended copper cabling with four twisted pairs. Each pair is used in both directions simultaneously.

# Slip rings

**Modular**

**Contactless signal transmission**

**SRI085**



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

In the SRI085, signal transmission occurs by means of a contactless inductive coupling. This ensures the data channels without maintenance requirements.

The construction is modular and offers the greatest flexibility in a variety of applications.

## Flexible and rugged

- Modular construction system, load and signal/data channels can be combined as desired.
- Rugged GFPC housing (glass-reinforced polycarbonate) for industrial usage.
- Low signal noise.

## Maintenance-free

- Signal / data channels maintenance-free by means of inductive coupling.
- Long service life.

## Applications

Packaging machines, rotary tables and textile machines

Slip rings

### Order code

**SRI085** | -XX| -XX| -XX| -X| 1| XX| -V100

Type

**a** Type of mounting  
20 = hollow shaft, ø 20 mm [0.79"]  
24 = hollow shaft, ø 24 mm [0.94"]  
25 = hollow shaft, ø 25 mm [0.98"]  
30 = hollow shaft, ø 30 mm [1.18"]  
IN = hollow shaft, ø 1"  
(other options on request)

**b** Number of sensor channels  
01 = 1 x PT100  
03 = 3 x PT100

**c** Number of power channels  
01 ... 06 = max. 6 power channels

**d** Max. load current  
0 = no load channels  
1 = 16 A, 240 V AC/DC  
2 = 25 A, 240 V AC/DC

**e** Interface  
1 = output 4 ... 20 mA

**f** Media lead-through  
0 = none  
6 = air, rotatable connector  
(up to 300 min<sup>-1</sup>)

**g** Protection rating  
1 = IP50  
2 = IP64

**h** Version number (options)  
V100 = without options  
>V100 = options on request

### Connection technology

Order no.

Cordset, pre-assembled

M12 female connector with coupling nut, 8 pin  
2 m [6.56'] PUR cable

**05.00.6051.8211.002M**

Connector, self-assembly (straight)

M12 female connector with coupling nut, 8 pin

**05.CMB 8181-0**

### Easily accessible connections



# Slip rings

Modular	Contactless signal transmission	SRI085
<b>Technical data</b>		
<b>Load transmission</b>		
<b>Current carrying capacity</b>	max. 240 V / 16 A	
voltage / current	max. 240 V / 25 A	
<b>Contact resistance</b>	< 1 Ohm	
<b>Insulation resistance</b>	< 10 <sup>3</sup> MΩ	
<b>Dielectric strength</b>	1000 V eff.	
<b>Data transmission</b>		
<b>Data signal</b>	PT100	
<b>Measuring range</b>	0°C ... +300°C [+32°F ... +572°F] (4 ... 20 mA)	
<b>Power supply</b>	24 V DC, ±10%	
<b>Interface</b>	4 ... 20 mA	
<b>Power consumption</b>	max. 250 mA at 24 V DC	
<b>Max. load of the current source</b>	400 Ohm	
<b>Type of connection</b>	Flange connector M12, A coded (terminal assignment see connection table)	
<b>Mechanical characteristics</b>		
	<b>only data transmission</b>	<b>mixed data and load transmission</b>
	SRI085-XX-0X-00-010X-V100	SRI085-XX-XX-XX-X101-V100
<b>Speed</b>	max. 800 min <sup>-1</sup>	max. 800 min <sup>-1</sup>
<b>Service life</b>	–	typ. 500 million revolutions
<b>Maintenance cycles</b>	maintenance-free	150 million revolutions
<b>Operating temperature</b>	-30°C ... +85°C [-22°F ... +185°F]	-30°C ... +85°C [-22°F ... +185°F]
<b>Protection to EN 60529</b>	max. IP65	max. IP64
<b>Contact material load channel</b>	–	copper/bronze
<b>Rotatable connector, air (media lead-through no. 6)</b>		
<b>Air pressure max.</b>	10 bar (150 psi)	
<b>Speed max.</b>	300 min <sup>-1</sup>	
<b>For tube diameter</b>	8 mm [0.31"]	

## Terminal assignment

Number of sensor channels	Flange connector M12, 8 pin							
1 x PT100	Signal:	–	–	–	0 V	24 VDC	channel 1, PT100	channel 1, 0 V
	Pin:	1	2	3	4	5	6	7
Number of sensor channels	Flange connector M12, 8 pin							
3 x PT100	Signal:	channel 2, PT100	channel 3, PT100	channel 3, 0 V	0 V	24 VDC	channel 1, PT100	channel 1, 0 V
	Pin:	1	2	3	4	5	6	7
								8

Top view of mating side, male contact base



Flange connector M12, 8 pin

# Slip rings

**Modular**

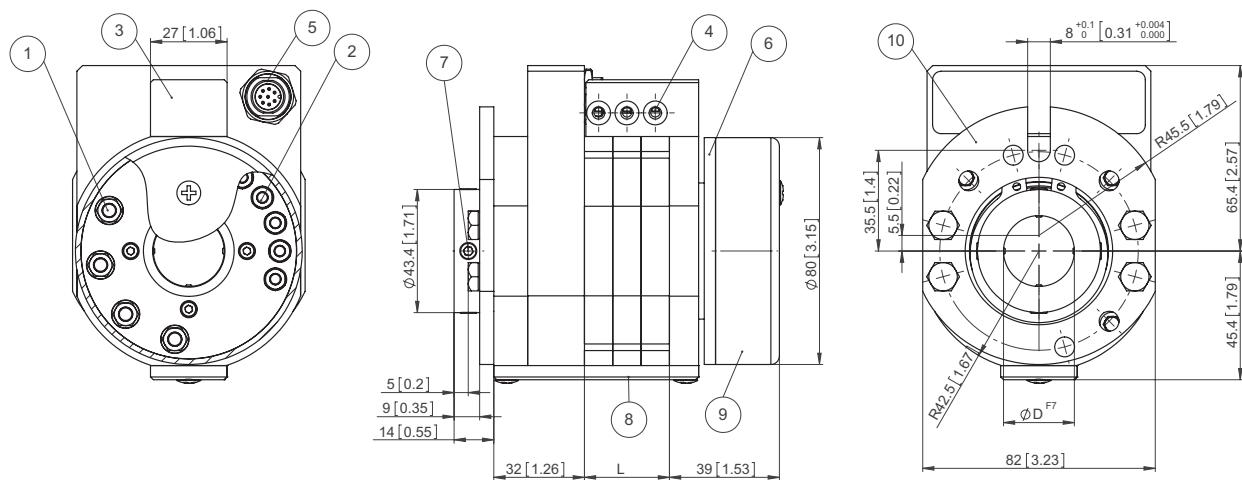
**Contactless signal transmission**

**SRI085**

## Dimensions

Dimensions in mm [inch]

Example: SRI085-25-03-03-1101-V100



- 1 – Screw terminal M5 for load transmission
- 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 – Flange connector M12, A coded
- 6 – Rotating connection ring
- 7 – 4 x socket set screw DIN 914 M6

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

# Slip rings

**Compact**

**Power and signal transmission**

**SR060U**



## 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.

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.

## 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**-**X**-**X****X****2**-**V100**

- |  |   |  |
|--|---|--|
| <b>a</b> Hollow shaft<br>20 = ø 20 mm [0.79"]<br>25 = ø 25 mm [0.98"]<br>IN = ø 1 inch<br>(other diameters on request) | <b>b</b> Number of signal / data channels<br>0 or 2 | <b>e</b> Contact material signal / data channels<br>0 = no signal / data channels<br>3 = silver / precious metal |
| <b>c</b> Number of load channels<br>0, 2 or 3  | <b>f</b> Protection<br>2 = IP64                     | <b>g</b> Version number (options)<br>V100 = without option<br>> V100 = option on request                         |
| <b>d</b> Max. load current<br>0 = no load channels<br>1 = 16 A, 240 V AC/DC  |   |  |

# Slip rings

**Compact**

**Power and signal transmission**

**SR060U**

## Technical data

<b>Hollow shaft diameter</b>	up to max. ø 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	≤ 1 Ohm (dynamic) <sup>1)</sup>
signal / data channels	≤ 0.1 Ohm (silver / precious metal) <sup>2)</sup>
<b>Insulation resistance</b>	
	10 <sup>3</sup> MOhm (at 500 V DC)
<b>Dielectric strength</b>	
	1000 V eff. (60 sec.)
<b>Rated surge strength</b>	
	U <sub>imp</sub> = 4kV
<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

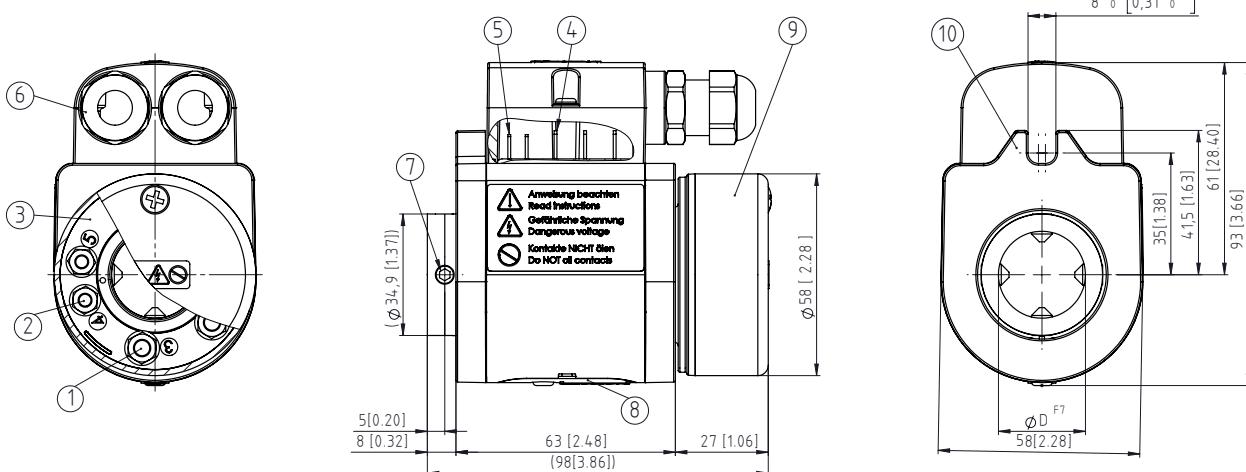
<b>Type of connection stator<sup>3)</sup></b>	load channels	flat pin 6.3 x 0.8 mm
	signal / data channels	flat pin 2.8 x 0.8 mm
<b>Type of connection rotor<sup>3)</sup></b>		
	load channels	M5 connection screws
	signal / data channels	M4 connection screws

## 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)

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

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..

# Slip rings

## 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      b      c      d      e      f      g

**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
<b>Technical data</b>		<b>Approvals</b>
<b>Hollow shaft diameter</b> up to max. ø 25 mm [0.98"]		<b>CE compliant</b> in accordance with Low Voltage Directive 2014/35/EU RoHS Directive 2011/65/EU
<b>Voltage/current loading</b> load channels 240 V AC/DC, 50/60 Hz, max. 20 A signal / data channels 48 V AC/DC, 50/60 Hz, max. 2 A		
<b>Contact resistance</b> load channels ≤ 1 Ohm (dynamic) <sup>1)</sup> signal / data channels ≤ 0.1 Ohm (silver / precious metal) <sup>2)</sup>		
<b>Insulation resistance</b> 10 <sup>3</sup> MΩ (at 500 V DC)		
<b>Dielectric strength</b> 1000 V eff. (60 sec.)		
<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 ... +75 °C [+32 °F ... +167 °F]		
<b>Protection acc. to EN 60529</b> IP64		
<b>Type of connection</b>		
<b>Connection stator</b>	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 
<b>Connection rotor</b>	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.

# Slip rings

## Compact

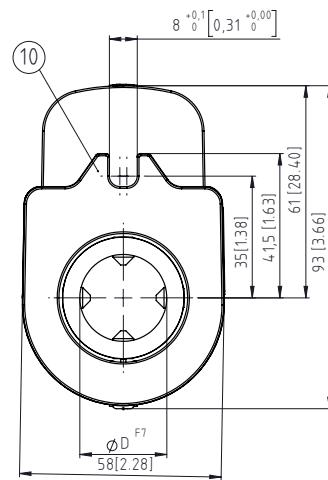
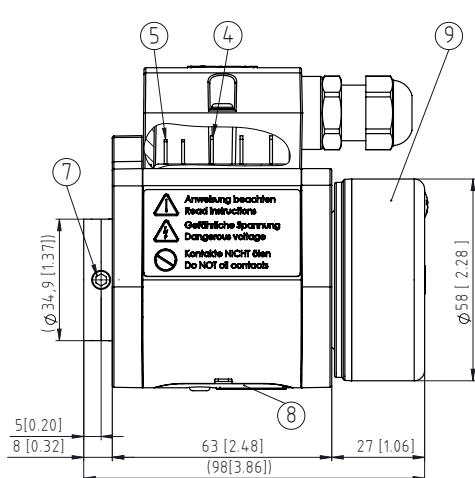
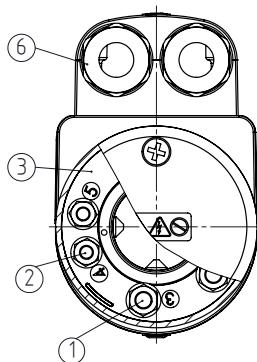
## Power and signal transmission

## SR060E

### Dimensions

Dimensions in mm [inch]

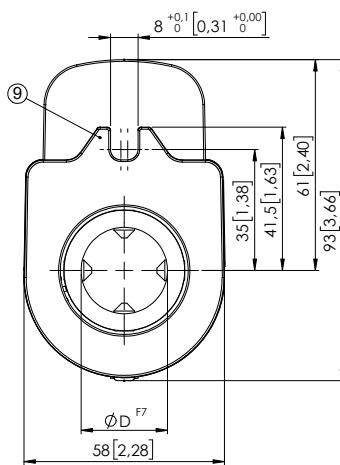
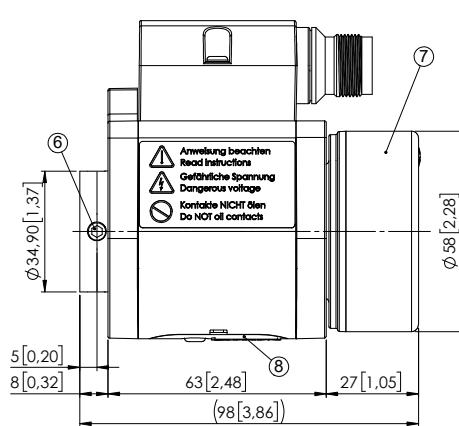
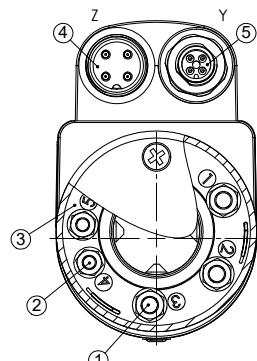
### Standard version



- 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

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