

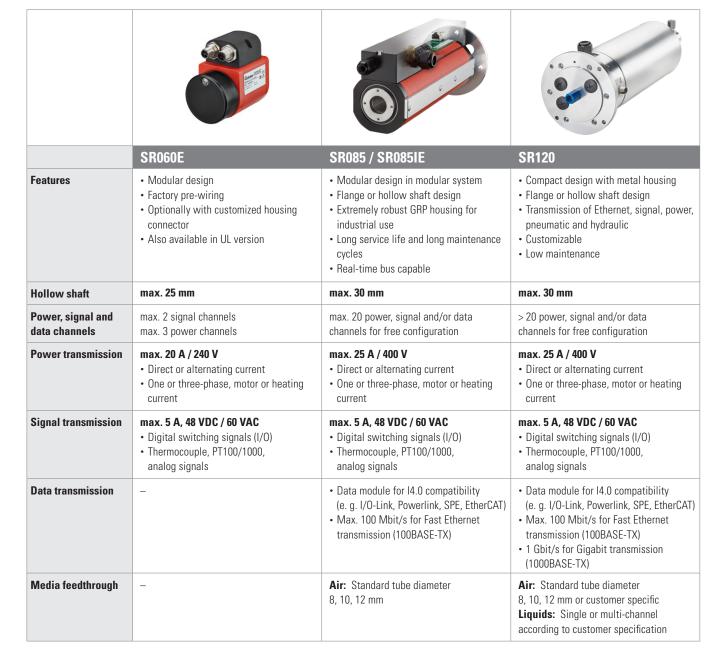


SLIP RINGS – BASE LINE

COMPACT DESIGNS FOR STANDARD APPLICATIONS

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.



"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.





















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 signal / data channels	≤ 1 Ohm (dynamic) ≤ 0.1 Ohm (dynamic)	
Insulation resistance	10 ³ MOhm, at 500 V DC	
Dialectric 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
UKCA compliant in accordance with Low Voltage Regulations	S.I. 2016/1101

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.

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