Slip rings



Modular

Construction system





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

The transmission between the stator and rotor takes place via sliding contacts and is extremely reliable.

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), 30% glass-fiber content for industrial usage.
- Long service life and long maintenance cycles.

Reliable with Safety-Trans™ Design

Delivery time is 10 working days for a maximum of 10 pcs. per delivery.

- Two-cavity system for load and signal transmission.
- Labyrinth seal.
- High vibration resistance.
- Fieldbus signals such as Profibus, CANopen etc. up to 12 Mbit/sec.

Applications

Packaging machines, textile machines, pipeline inspection systems, video surveillance equipment, bottling plants, rotary tables

Standard models

				Larger quantities have a delivery time (or alternatively on request).	of 15 working days	
	Signal/data channels	Load channels	Contact material	Order no.		
Hollow shaft 25 mm [0.98"]	4 x 6 x	4 x 6 x	silver/precious metal silver/precious metal	SR085-25-04-04-11301-V100 SR085-25-06-06-11301-V100		
Hollow shaft 30 mm [1.18"]	2 x 6 x	3 x 6 x	silver/precious metal silver/precious metal	SR085-30-02-03-11301-V100 SR085-30-06-06-11301-V100		

Order SR085 code Type - XX		- V100 Non-standard models will be checked for availab Minimum order quantity 5 pieces for new models lump sum for new variants. For list of all available	. For orders < 5 pieces, we will invoice a one-shot
 Type of mounting flange mounting hollow shaft, ø 20 mm [0.79"] hollow shaft, ø 24 mm [0.94"] 	 Max. load current no load channels 1 = 16 A, 240 V AC/DC 2 = 25 A, 240 V AC/DC 	 Contact material for signal/data channels²⁾ no signal channels silver / precious metal 	 <i>Protection rating</i> 1 = IP50 2 = IP64
25 = hollow shaft, ø 25 mm [0.98"] 30 = hollow shaft, ø 30 mm [1.18"] IN = hollow shaft, ø 1"	3 = 10 A, 400 V AC/DC 4 = 20 A, 400 V AC/DC	 Media lead-through 0 = none flange mounting (00): 	 Version number (options) V100 = without options >V100 = Options on request, e.g.:
(other options on request) Number of signal/	 Mounting position any, only with either load or signal channels 	 air, connection 1/4" air, connection 1/2" air, connection 3/8" 	 > 20 channels other types of mounting other types of connection
data channels ¹⁾ Number of power (load)	 1 = standing and horizontal (flange down) 2 = hanging and horizontal 	 4 = hydraulics, connection 1/2" 5 = hydraulics, connection 3/8" hollow shaft mounting: 	e.g. plug connectors
channels ¹⁾	(flange up)	6 = air, rotatable connector (up to 300 min ⁻¹)	

1) Max. 20 signal/data channels (no load), combinations of data and load channels > 13 upon request.

2) Contact material gold/gold and copper/bronze on request.

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Slip rings



Stator ring with pick-off
Insulator with s
Insulator with s
ALC .
Practical maintenance window
•
Hollow shaft mounting with rotat
connector (air), for tube diameter 8 mm [0.31"]
(in the second s
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Speed max. 300 min⁻¹ For tube diameter 8 mm [0.31"]

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.

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Dimensions

Dimensions in mm [inch]

Standard version





- 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

Air lead-through versions

Example: Type SR085-00-04-03-11322-V100



- 4 Wire lead-in for power possible on both sides
- 5 Terminal clamp 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



Calculation of the overall length

Basic dimensions	
slip ring with hollow shaft	up to 10 channels: 65 mm [2.56"] from 11 channels: 80 mm [3.15"]
slip ring with flange mounting and media lead-through 1/2" or 3/8"	185 mm [7.28"]
slip ring with flange mounting and media lead-through 1/4"	168 mm [6.61"]
Additional dimensions	
+ number of signal/data channels (silver / precious metal)	+ 10 mm [0.39"] per data channels
+ number of load channels, order options 1 and 2	+ 10 mm [0.39"] per load channel
+ number of load channels, order options 3 and 4 (10 or 20 A, 400 V)	+ 20 mm [0.79"] per load channel, if only load + 10 mm [0.39"]
+ labyrinth isolation ring for load and signal transmission	+ 10 mm [0.39"]