

Slip Rings

Modular	SRI085	Contactless signal transmission
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In general slip rings are used to transmit 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	Maintenance-free
<ul style="list-style-type: none"> • Modular construction system, power and signal/data channels can be combined as desired • Rugged GFPC housing (glass-reinforced polycarbonate) for industrial usage 	<ul style="list-style-type: none"> • Signal / data channels maintenance-free by means of inductive coupling • Long service life
Applications	
Packaging machines, rotary tables, balancing machines and textile machines	

Standard versions				Order No.
Hollow shaft 25 mm [0.98"]	Signal / data channels 3 x	Load channels 4 x	max. load current 16 A, 240 V AC/DC	SRI085-25-03-04-1101-V100
Other options on request:				
<ul style="list-style-type: none"> • Hollow shaft up to \varnothing 30 mm [1.18"] • Number of data channels – max. 3 PT100 pairs • Number of load channels – max. 6 channels • Protection max. IP64 				

Connection technology	Order No.
Connector, self-assembly (straight)	M12 female connector with coupling nut 05.CMB 8181-0
Cordset, pre-assembled	M12 female connector with coupling nut, 2 m PUR cable 05.00.6051.8211.002M

Additional connectors can be found in the connection technology section or in the connection technology area of our website at: www.kuebler.com/connection_technology.

Easily accessible connections



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Technical data

Power transmission	
Current carrying capacity voltage / current	max. 240 V / 16 A max. 240 V / 25 A
Contact resistance	< 1 Ohm
Insulation resistance	< 10 ⁸ MOhm
Dielectric strength	1000 V eff.

Data transmission	
Data signal	PT100
Measuring range	0°C ... +300°C [+32°F ... + 572°F] (4 ... 20 mA)
Power supply	24 V DC, ±10%
Power consumption	max. 250 mA at 24 V DC
Max. load of the current source	400 Ohm
Type of connection	Flange connector M12, A coded (terminal assignment see connection table)

Mechanical characteristics		
	only data transmission SRI085-XX-0X-00-010X-V100	mixed data and load transmission SRI085-XX-XX-XX-X101-V100
Speed	max. 800 rpm	max. 800 rpm
Service life	–	typ. 500 million revolutions
Maintenance cycles	maintenance-free	100 million revolutions
Operating temperature	-30°C ... +85°C [-22°F ... +185°F]	-30°C ... +85°C [-22°F ... +185°F]
Protection	max. IP64	max. IP50
Contact material load channel	–	copper/bronze

Terminal assignment

Interface	Flange connector M12, 8 pin								
1	Signal:	channel 2, PT100	channel 3, PT100	channel 3, 0 V	0 V	+24 V	channel 1, PT100	channel 1, 0 V	channel 2, 0 V
	Pin:	1	2	3	4	5	6	7	8

Top view of mating side, male contact base

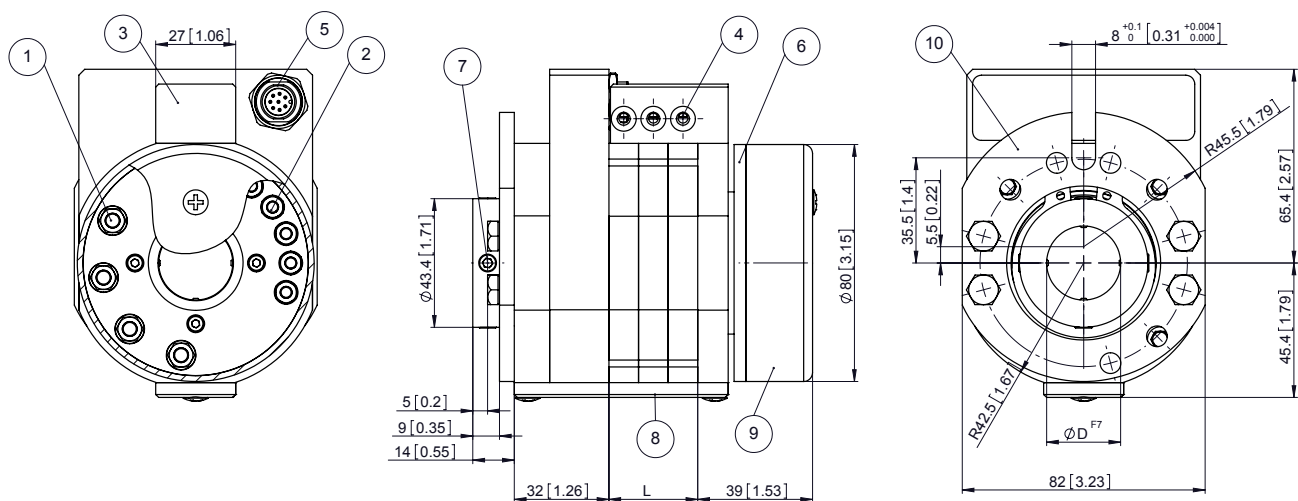


Flange connector M12, 8 pin

Dimensions

Dimensions in mm [inch]

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



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|--|---|--------------------------------------|
| 1 – Screw terminal M5 for power transmission | 4 – Wire lead-in for power possible on both sides | 8 – Maintenance window |
| 2 – Screw terminal M4 for signal transmission | 5 – Flange connector M12, A coded | 9 – Protective cover for connections |
| 3 – Terminal clamp for power without wire protection, with shock-hazard touch protection | 6 – Rotating connection ring | 10 – Torque stop |
| | 7 – 4 x socket set screw DIN 914 M6 | |