

Slip Rings

Slip ring transmitters, often called rotary joints or transfer systems, are electromechanical products for the transfer of currents, electrical signals or media from a fixed to a continuously rotating part. Slip rings are used where rotational movements above 360° are required and a drag chain would hinder this movement.

A slip ring transmitter usually consists of a slip ring assembly and a current collector – and in most cases an additional covering. All of our transmission technologies can be combined with each other.

Slip rings from Moog ensure reliable transmission of signals, high currents, sensor electronics and data transmission even under extreme environmental conditions, such as low temperatures of snow areas or in very hot conditions in dry regions.



Technical Data

Operating Speeds	Up to 100 rpm
Current Rating	< 1 mA up to 100 amps, customization to transfer > 1000 amps possible
Voltage Rating	< 1 mV up to 680 volts AC/DC, customization to transfer > 1000 volts AC/DC possible
Data Transfer	CANbus up to 1000 kbit/sec Ethernet up to 100 Mbit/sec
Temperature Range	-58°F up to 212°F (-50°C up to 100°C)
Contact Material	Brass, alternative silver, rhodium plated available
Protection Class	IP69K
PSI	Up to 7,300 psi in steel, casted steel, stainless steel or 5,100 psi in aluminum
Compatible	With angle encoder: analog, digital CANopen, or customer specified. With hydraulic rotary joint (swivel): fluid like: oil, gas, diesel, glycol, water.

Features

High Quality	High-quality products of standard design and new development of special designs according to individual customer requirements.
Maintenance	Maintenance free, more than 10 million revolutions.
Durability	Rugged housing for tough environments. Sea water, UV and oil resistant.
Compatibility	Compatible with additional sensors like an angle encoder.
Data Transfer	Up to 400 Mbit/sec with contacted slip rings, up to 2 Gbit/sec with contactless slip rings.
Customizable	Customized fixing flanges or torque arms. Slip rings with customer specified connectors.