## Slip Ring Assemblies with Amplifiers

# Models S\_/\_/G, S\_/\_/TC

- 4, 6, and 8 circuit slip rings
- Integrated strain gauge or thermocouple amplifier •
- Compact design sealed against dust •
- Color-coded terminals or connectors •
- Stainless steel and aluminum housing •
- Instrumentation guality rings and brushes

#### **Description**

Michigan Scientific's renowned Slip Ring Assemblies are available with strain gauge amplifiers or thermocouple amplifiers in the rotor for extremely limited space applications.

Units configured with thermocouple amplifiers in the rotor have superior signal quality because the amplifier is located closer to the thermocouple sensors, reducing errors related to temperature gradients or magnetic interference. Additionally, the built-in thermocouple amplifier provides coldjunction compensation and amplification of thermocouple sensors.

Units configured with a strain gauge amplifier in the rotor have superior signal quality because the amplifier is located closer to the strain gauge bridge, reducing errors related to long lead wires, connector resistance variations, and electro-magnetic interference. The built-in strain gauge amplifier provides strain gauge excitation and signal amplification. These amplifiers incorporate a precision low-drift bridge excitation supply, a stable differential amplifier, and a remotely activated shunt calibration resistor for system span verification.

#### **Specifications**

	S/G	S/TC
Bridge Excitation	2.5 V, 5 V, 10 V	-
Gain	100-2,000	-
Shunt Resistance	100 kΩ-1 MΩ	-
Thermocouple Types	-	Ј, К, Т
Bandwidth	20 kHz	1.56 kHz
Temperature Range	0 °C-125 °C (32 °F-257 °F)	0 °C-125 °C (32 °F-257 °F)
RPM Rating	12,000 RPM	12,000 RPM

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### Mounting

These models can easily be mounted to the end of a shaft. Refer to the literature on *S*-*Series Slip Ring Assemblies* for a detailed drawing and description of the mounting procedure.

Contact Michigan Scientific for help determining the best model for your application.

### **Ordering Options**

For information regarding slip ring accessories, refer to Tech Note 7 section of the catalog.

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