

Short S-Series Slip Ring Assembly

Models Short S4/X, S6/X, S8/X, S10/X

- 4, 6, 8, and 10 circuit slip rings
- Compact design ideal for limited space applications
- Sealed against dust
- Color coded terminals
- Thin section bearings
- Stainless steel and aluminum housing
- Instrumentation quality rings and brushes



Description

Michigan Scientific's *Short S-Series Slip Ring Assemblies* are utilized for a variety of applications requiring up to 10 circuit connections. They are designed to mount on the end of a rotating shaft and make electrical connection to strain gages, thermocouples, or other sensors that have been installed on rotating equipment. The slip ring brushes and rings are made of precious metals that minimize noise and enable the assemblies to be used for low level instrumentation signals. In addition, a stainless steel and aluminum case provides protection from dust and other contaminants.

The *Short S-Series* models are available in 4, 6, 8, and 10 circuit slip ring assemblies. Connections are made through color-coded solder terminals located on the slip ring rotor and a connector on the slip ring stator.

Specifications

	Short S4/X	Short S6/X	Short S8/X	Short S10/X
Circuits	4	6	8	10
Current Capacity per Circuit	500 mA	500 mA	500 mA	500 mA
Temperature Range ¹	30° F to 280° F (-1° C to 138° C)	30° F to 280° F (-1° C to 138° C)	30° F to 280° F (-1° C to 138° C)	30° F to 280° F (-1° C to 138° C)
RPM Rating	12,000 RPM	12,000 RPM	12,000 RPM	12,000 RPM
Maximum Peak Noise ²	0.1 Ω	0.1 Ω	0.1 Ω	0.1 Ω
Weight	2.0 oz (56 g)	2.2 oz (61 g)	2.3 oz (64 g)	2.3 oz (65 g)
Length (see back)	0.872 in (22.15 mm)	0.972 in (24.69 mm)	1.072 in (27.23 mm)	1.172 in (29.77 mm)

¹The Short S-series are primarily used on engines in vehicles where space is limited. These applications are usually hot, high speed and high vibration. The slip rings are optimized for good electrical performance in these conditions. If your environment is colder, please specify your temperature range when ordering.

²Resistance variation across slip ring contact

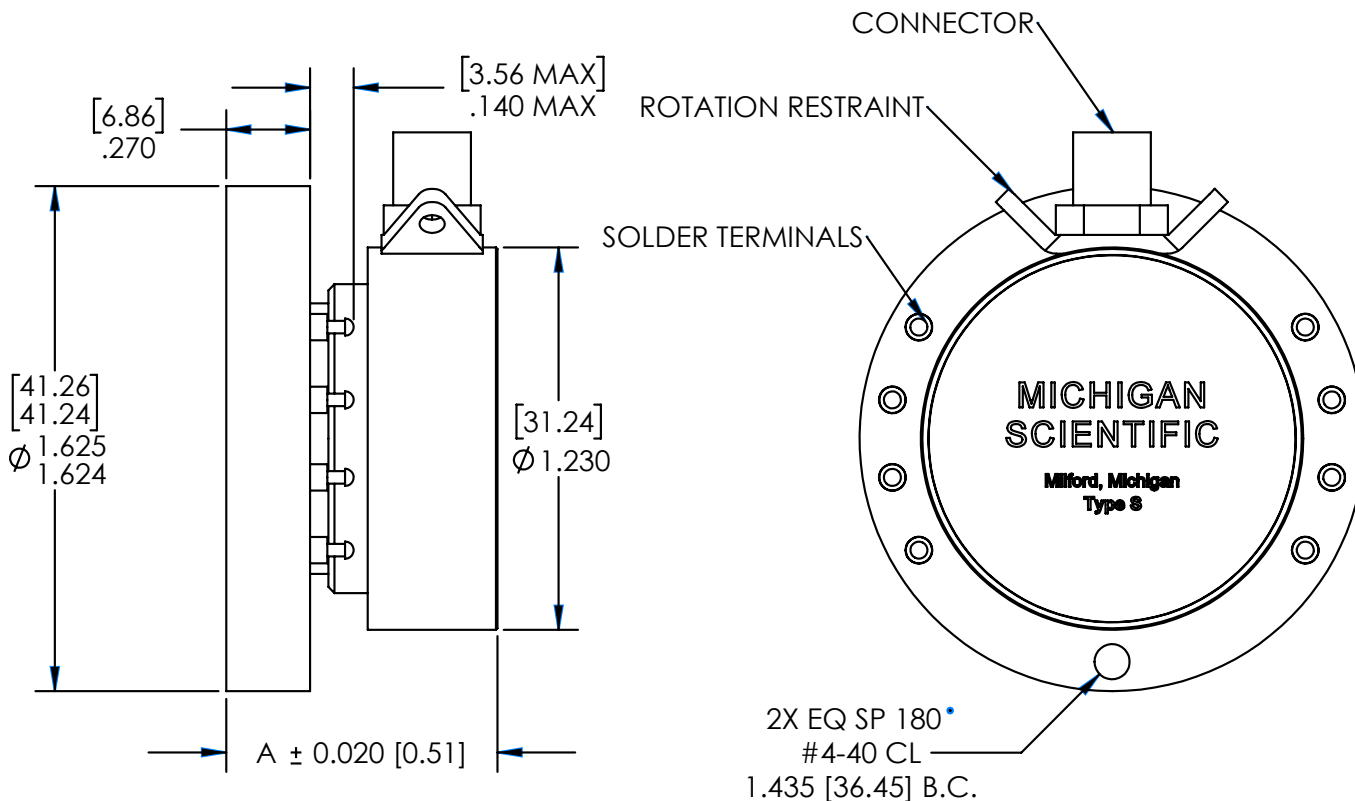
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Rev. A

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Short S-Series Slip Ring Assembly

Short S_X Slip Ring Configuration



MODEL	A
SHORT S4	0.872 [22.15]
SHORT S6	0.972 [24.69]
SHORT S8	1.072 [27.23]
SHORT S10	1.172 [29.77]

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 applications in which the slip ring assemblies are subjected to extreme vibration.

Ordering Options

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

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