

Weatherproof Tubular Slip Ring Assembly

Model B8-4.3W

- 8 circuit weatherproof slip ring
- Compact design
- Mounts on shafts up to 4.3" [109.2 mm] in diameter
- Permanently lubricated bearings
- Rugged stainless steel construction
- Instrumentation quality rings and brushes



Description

Michigan Scientific's *B8-4.3W Weatherproof Slip Ring Assembly* is ideal for applications which require the slip ring to be sealed and mounted directly on a rotating shaft. Typically used for agricultural and heavy equipment PTO and drive shaft measurement applications, this model employs specially designed seals that provide weatherproof protection from water, mud, snow, dust, and other contaminants (unit is not submersible). It is designed to fit on shafts up to 4.3" in diameter 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 which minimize noise and enable the assemblies to be used for low level instrumentation signals.

The eight circuit capacity of this slip ring allows for more than one full bridge strain gage measurement channel. This is particularly useful for drive shaft applications where both torque and axial measurements are needed. When strain levels are very small, e.g. most axial strain measurements, it is beneficial to use Michigan Scientific's *Rotating Strain Gage Amplifiers*. If accurate temperature measurements are required use of Michigan Scientific's *Thermocouple Amplifier* is recommended. Locating precision amplifiers on the rotating side of the slip ring improves signal quality because the amplifier is located closer to the sensor. This reduces errors due to long lead wires, connector resistance variations, electro-magnetic interference, and temperature gradients across slip ring contacts.

Connections are made through color coded solder terminals located on the slip ring rotor and a connector on the slip ring stator. The compact design of these slip rings make them ideal for applications where limited space is available.

Specifications

Circuits	8
Current Capacity per Circuit	1A
Temperature Range	-40°F to 250°F (-40°C to 121°C)
RPM Rating	3500 RPM
Maximum Peak Noise*	0.1Ω
Width	2.1 in (53.3 mm)
Weight	12.8 lbs (5.8 kg)
Output Connector	PT02E-12-10P
Mating Connector	PT06E-12-10S
* Resistance variation across slip ring contact.	

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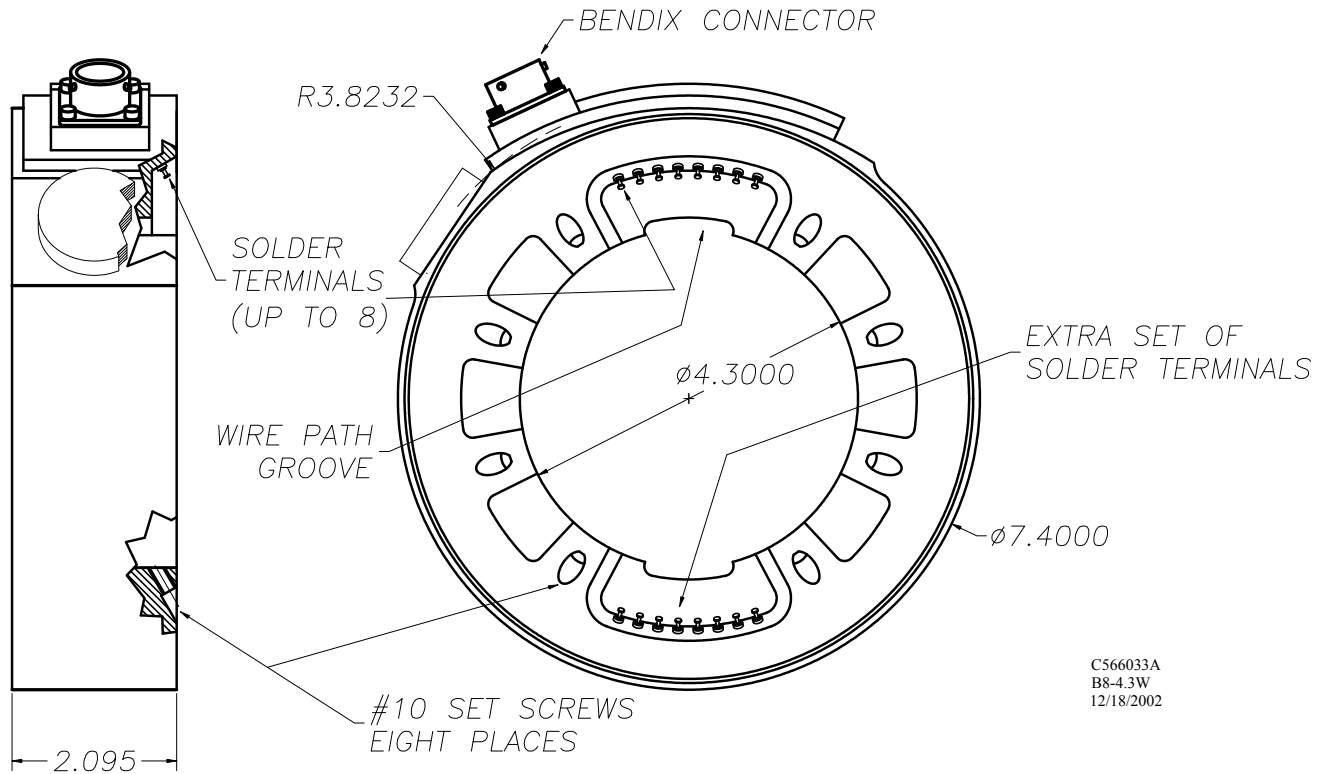
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B8-4.3W Configuration



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