

Slip Rings With Through-Bores

Endura-Trac™ Standard W series

Description

The Endura-Trac™ series of slip ring assemblies were developed for a wide variety of applications and environments. The flexible design and through-bore capability of up to 3 inches, along with many other options make it ideal for a designer to incorporate into new and retrofit applications. Modular construction allows a range of signal and power combinations with power circuits up to 30 amps and signal circuits up to 5 amps. These slip ring assemblies are a quick turn solution for your application. Off-the-shelf components allow for a delivery which meets your needs.

Features

- Unobstructed bore sizes from 1-1/2 inches to 3 inches
- Up to 24 signal circuits, up to 12 power circuits
- Continuous bidirectional rotation up to 60 rpm
- All metal dust cover
- Flying lead wire bundle, 24 inch lead length
- #20 AWG signal lead wire, #12 AWG power lead wire
- Shaft, rotor, or both can rotate
- Leadwires can exit from same or opposite ends of the rotor and stator

Benefits

- Ease of installation
- Compatible with data bus protocols
- Transfers power, as well as analog and digital signals
- Replaceable brush blocks
- 27 different combinations of signals and power circuits



Typical Applications

- Packaging machines
- Index tables
- Paper and film converting
- Rotary machines
- Machine tools
- Automation equipment
- Medical equipment
- Surveillance equipment
- Inspection equipment

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Standard W Series Specifications		Options
Operating Speed	60 RPM	<ul style="list-style-type: none"> • Open frame • Drive adaptor for stator de-rotation • Longer lead lengths • Special wiring or harness requirements (coaxial, twinaxial and triaxial cable, thermocouple) • High voltage option to 3000 V • Various power and signal configurations available
Power Circuits	Up to 12 power circuits: 30 A / 600 volts	
Signal Circuits	Up to 24 signal circuits: 5 A / 250 volts	
Terminals	Power circuits - 12 AWG flying leads Signal circuits - 20 AWG flying leads	
Mounting	Shaft mounting	
Temperature Range	-20°C to +90°C	

*Please note that the operational life of the unit is dependent upon rotational speed, environment and temperature.

Bore Size	ID Actual	OD	S	R
1.5 inch (38,1 mm)	1.52 inch (38,61)	5 inch (127,00)	4.033 inch (102,44)	1.896 inch (48,16)
3.0 inch (76,2)	3.02 inch (76,71)	6.50 inch (165,10)	5.488 inch (139,40)	3.396 inch (86,26)

To determine length of overall unit, use the following formulas or contact us for assistance.

xx = Total number of signal rings
yy = Total number of power rings

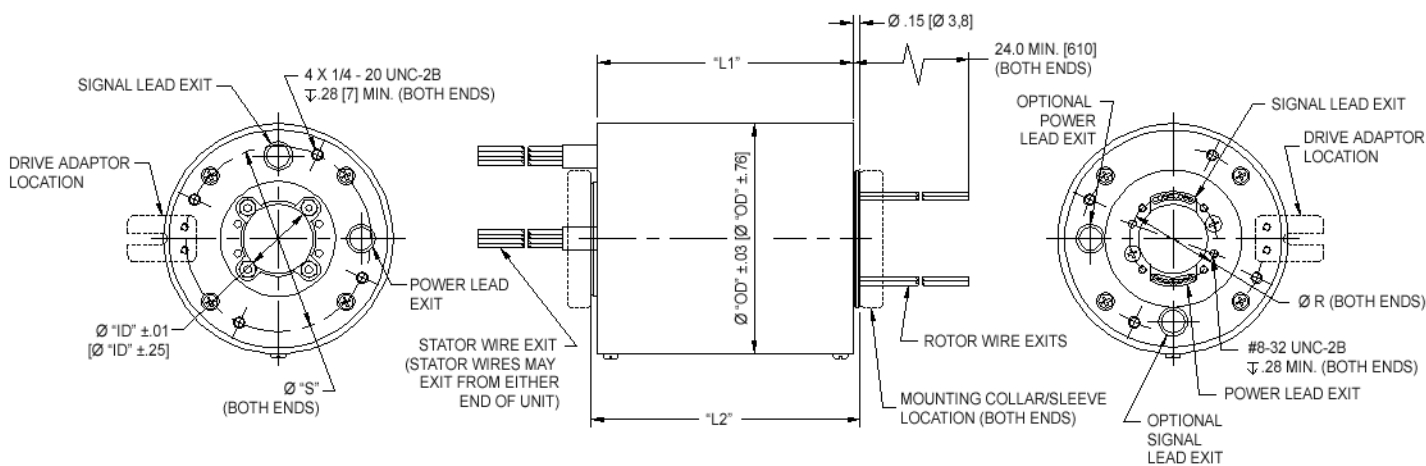
$$L1 = .2(xx) + .4(yy) + .80$$

$$L2 = .2(xx) + .4(yy) + 1.09$$

Number of signal rings
(multiples of 4)

	0	4	8	12	16	20	24
0	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-

Standard W Series Dimensions



Dimensions in inches [millimeters]