

Through Bore Slip Ring



Main Application

- ◆ Packaging / wrapping machinery
- ◆ Semiconductor handling systems
- ◆ Industrial machinery
- ◆ Exhibit Display machinery
- ◆ Medical equipment
- ◆ Rotary index tables
- ◆ Process control equipment
- ◆ Emergency lighting, robotics palletizing machines,
- ◆ Heavy equipment turrets or cable reels

Option

- ◆ Placement of custom circuitry directly onto the unit
- ◆ Custom mechanical integration features
- ◆ Addition of special components
- ◆ Inclusion of coax and miniature data bus cables

Contact us to discuss your special needs

LPT012 Series Slip Ring with Through Bore 12.7mm

Description

This unit can be used in any electromechanical system that requires unrestrained, continuous rotation while transferring power or data from a stationary to a rotating structure.

It is also called a rotary electrical interface, commutator, collector, swivel or an electrical rotary joint. It can improve electromechanical capability, simplify system design, eliminate possible damage while rotation. It's the key apparatus of various precision rotary worktable, electric test instrument, manufacture and process control instrument.

The LPT012 provides an economical, readily available solution when a compact through-bore configuration is required. This unit provides a 12.7mm through-bore for routing hydraulic or pneumatic lines and a compact 55mm outside diameter for minimal space applications. The 5 amps /circuit are available in 6, 12, 18 and 24 ring configurations in 4 housing length. Similar in design to our very popular LPT012 series, this design features long life, fiber brush contact technology for ultimate performance in many challenging applications. Fiber brushes do not require lubrication and produce virtually no wear debris, for maintenance free, life time operation.

Features

- ◆ 6, 12, 18 and 24 circuits models
- ◆ Precious metal contacts
- ◆ 5 amps & 10 amps. rings
- ◆ Precision ball bearings for long life
- ◆ Speed up to 500 rpm continuous
- ◆ Compact size
- ◆ Sealed units available
- ◆ Flying leads
- ◆ Fully compatible with both analog and TTL control level signals
- ◆ Rugged black anodized aluminum construction

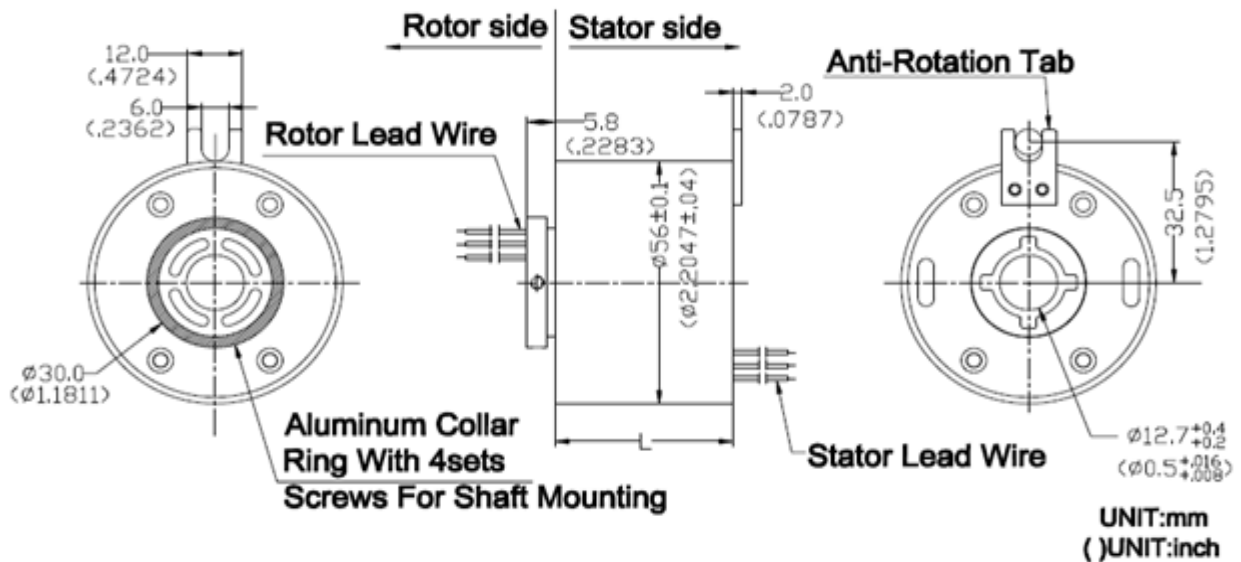
Advantage

- ◆ Unique signal handling performance with minimal electrical noise
- ◆ Compact design to fit in the most demanding space constraints
- ◆ Low torque minimizes system torque budget
- ◆ Rapid delivery

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Specification	
Circuits	1-24 circuits
Operating Speed	0-500rpm
Working Temperature	-20℃~ +60℃
Working Humidity	60%RH or higher
Electrical:	
Voltage Rating	380VAC/DC or higher
Current Rating	2A/5A/10A/ per circuit
Dielectric Strength	≥1000V@50Hz between each circuit
Insulation Resistance	1000MΩ@ 500VDC
Electrical Noise	1mΩ Min
Mechanical:	
Contact Material	Precious metal
Lead Wire Length	Standard 300mm (11.81inch)
Housing Material	Aluminum alloy
Torque	≤9.25 g·m (for reference)
Protection	IP54 or higher

- ◆ The operating life of the unit depends upon temperature, rotation speed and environment.
- ◆ The operating life ≥50,000,000 runs ref.



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L---The length of through bore slip ring(mm)

Part Number	Current/Circuit	6 circuits	12 circuits	18circuits	24 circuits
LPT012(Inner diameter12.7mm)	5A	34.0	47.8	61.6	75.4
	10A	37.0	53.8	70.7	87.4

Contact us on wire color codes