

Miniature Capsule Slip Ring



LPM-18A Miniature Slip Ring 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 LPM-18A miniature slip ring is a standard, off-the-shelf unit that uses gold contacts at the rotary interface. Color-coded lead wires are used on both the stator and rotor for simplifying electrical connections.

The LPM-18A allows tremendous flexibility in dealing with system size restrictions. It is available in 4, 6 12 and 18 circuit configurations.

Main Application

- ◆ Electrical test equipment
- ◆ Manufacturing and process control equipment
- ◆ Indexing tables.
- ◆ CCTV pan / tilt camera mounts
- ◆ Robotics, rotary sensors, urgent illumination equipment
- ◆ Exhibit / display equipment.
- ◆ Aviation, military, instrument, medical equipment
- ◆ Mini-type wire-rolling machine
- ◆ Closed-circuit control

Contact us to discuss your special needs

Features

- ◆ 18 circuits models
- ◆ 2 amps per circuit, 240VAC/DC
- ◆ Precision assembly to provide exceptional rotational life
- ◆ Speed up to 300 rpm continuous
- ◆ Gold-Gold contacts
- ◆ Flexible, color-coded, silver-plated, lead wires
- ◆ Superior handling of low level control signals
- ◆ Metal housing optional

Advantage

- ◆ Low torque minimizes system torque budget
- ◆ Compact design to fit in the most demanding space.
- ◆ Smooth running
- ◆ Low electrical noise
- ◆ Quick shipment per your urgent requirement
- ◆ 360° continuous rotation
- ◆ Addition of special components

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Specifications

| | |
|-----------------------|--------------------------------------|
| Operating Speed | 0-300 rpm |
| Number of Circuits | 18 |
| Voltage | 240 VAC/DC |
| Current Rating | 2 amps per circuit |
| Temperature Range | -20°C to +60°C |
| Contact Material | Gold to Gold |
| Lead Size | 30# silver plated copper |
| Lead Length | Standard 250 mm (9.843inch) |
| Dielectric Strength | ≥500 VAC @50Hz, between each circuit |
| Insulation Resistance | 1000 M Ω @ 500 VDC |
| Electrical Noise | 1m Ω Min |

Capsule Length = L

| # of Circuits | L (mm) | Part No |
|---------------|--------|---------|
| 18 | 40 | LPM-18A |

Contact us on wire color codes

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

