

## Miniature Slip Ring LPM-20B

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 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-20B 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 simplified electrical connections. The LPM-20B allows tremendous flexibility in dealing with system size restrictions. It is available in 4, 6 12, 18 and 20 circuit configurations.

### Specifications

|                       |                                      |
|-----------------------|--------------------------------------|
| Operating Speed       | 0-300 rpm                            |
| Number of Circuits    | 20                                   |
| 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 | 100 MΩ @ 500 VDC                     |
| Electrical Noise      | 1mΩMin                               |

### Capsule Length

| # of Circuits | L (mm) | Part No |
|---------------|--------|---------|
| 20            | 35     | LPM-20B |

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

## Features



- ✓ 20 circuits models
- ✓ 2 amps per circuit , 240 VAC/VDC
- ✓ 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



TEMPERATURE RANGE  
-20° C to 60° C



MAXIMUM OPERATING SPEED  
0-300 RPM

## Applications

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



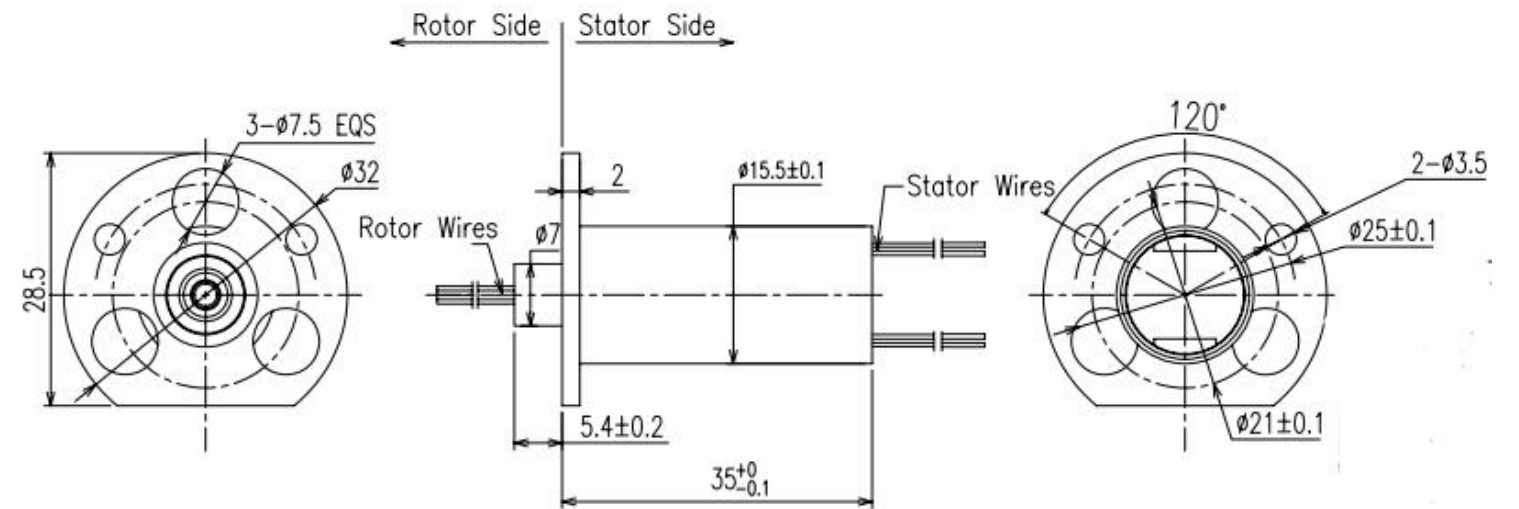
## Advantage



- ✓ Low torque minimizes system torque budget
- ✓ Unique compact design, minimal product size can carry multiple current and control signals
- ✓ Smooth running
- ✓ Low electrical noise
- ✓ Prompt shipment per your urgent requirement
- ✓ 360° continuous rotation
- ✓ Compatible with all kinds of data signal
- ✓ Addition of special components

## Drawings

Model: LPM-20B



## MESSAGE

Any questions about slip ring, please leave your message to get a professional solution

### PRODUCT CATEGORY

FORJ  
Capsule slip ring  
Through bore slip ring  
Pancake slip ring  
Mercury slip ring  
Separate slip ring  
Miniature slip ring  
Wind turbine slip ring  
Hydraulic slip ring  
Pneumatic slip ring  
Coaxial rotary joints

### REQUESTS

Circuits  
Current & voltage  
Signal details  
Dimension  
Working speed  
Working temperature  
Operating Environment  
Other

### INDUSTRIES

Surveillance  
Crane  
Medical  
Marine  
Defence  
Radar antenna  
Automation  
Meter and instrument  
Wind turbine generator  
VR Device  
Other

### Wire Color Code

| Wire Size                                | Ring # | Color    | Ring # | Color   | Ring # | Color   | Ring # | Color   |
|--|--------|----------|--------|---------|--------|---------|--------|---------|
| AWG30# silver plated copper<br>Teflon UL | #1     | BLK      | #2     | BRN     | #3     | RED     | #4     | ORG     |
|  | #5     | YEL      | #6     | GRN     | #7     | BLK-BLU | #8     | PUR     |
|  | #9     | GRAY     | #10    | WIT     | #11    | PINK    | #12    | AZURY   |
|  | #13    | WIT/BLK  | #14    | WIT/BRN | #15    | WIT/RED | #16    | WIT/ORG |
|  | #17    | WIT/YET  | #18    | WIT/GRN | #19    | WIT/BLU | #20    | WIT/PUR |
|  | #21    | WIT/GRAY | #22    | CLAR    | #23    | BLK-RED | #24    | BLK/BRN |

Remarks: 1. AWG28# silver plated copper Teflon UL, 24 different color single wires for a circle

2. #1 from rotor side (The color if the wire can be changed).

Contact us on wire color codes



Send