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LPC Series—Capsule Slip Rings

LPC series is a group of Capsule Slip Rings of compact design manufactured by ZISMART, with the outer diameter of 22.5mm and 22.5 circuits at most. Such electrical sensors are designed perfects for transmitting signals and power. Based on the high-quality and reliable performance, the product is widely used in many of the production lines, power tools, microscope, pipe coating technology from international operations as cures a low electrical noise (mm 1/42). Both of the two sides precast an elevated performance of the rotary joint, which can be used in the harsh environment. The product is also suitable for the rotary joint operations in a place with high pressure meet mini-ceramic guarantee a high quality which can stand the well cut-offs test. Since foundation in 1996, ZISMART special slip rings have enjoyed a great reputation among customers at home and abroad.

Parameters

Electrical Parameters

Circuits	2 circuits to 22 circuits
Contact Resistance	≤30mΩ
Dielectric Withstand Voltage	500VAC/1min
Insulation Resistance	≥500MΩ (500VDC)
Current Rating	2A (Max)
Electrical Interface	Wire Leads
Electrical Life	1M Cycles

Mechanical Parameters

Operating Speed	0-300RPM
Operating Life	1M Cycles
Operating Temperature	-20~+70℃
Weight	120 gr.max

Environmental Parameters

Operating Temperature	-20~+70℃
Storage Temperature	-40~+85℃
Humidity	95%

Outline

Diameter 22.5mm, Length 22.5mm, Shaft diameter 3.0mm

Customized Parameters Available

Features & Benefits

- Supporting signal/ signal transmission
- Increased design width a smooth 360° continuous rotation
- Low resistance contacts made of precious metal alloy and special technology
- Interchange parts dimensions, customization available
- Using various film with stable noise, military surface processing technology
- Many protections, rapid delivery

Application

LPC Series

Model	Outline drawing	Product
LPC-006		
LPC-007		
LPC-008		
LPC-009		
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Wire Color Code

Wire Color	Red*	Yellow	Black*	White	Green	Blue*	Orange	Brown
ANSI/TIA-598-C Wire Color	A1	B1	C1	D1	E1	F1	G1	H1
	A2	B2	C2	D2	E2	F2	G2	H2
	A3	B3	C3	D3	E3	F3	G3	H3
	A4	B4	C4	D4	E4	F4	G4	H4
	A5	B5	C5	D5	E5	F5	G5	H5
	A6	B6	C6	D6	E6	F6	G6	H6
Tracer	BLK/YEL	BLK/RED	BLK/BLU	BLK/GRN	YEL/RED	YEL/BLU	YEL/GRN	RED/BLU

Tracers are optional unless specified.

Installation Method

Use and Installation Instructions

1. Slip ring should be installed on the shaft or bracket or mounted on a bracket/clamp.
2. Stator should be secured by a set of flexible connecting materials (such as rubber hose or metal hose) or metal sheet, of which one can be used as stop or a similar speed.
3. Rotor should be secured by a set of flexible connecting material (such as rubber hose or metal hose) or metal sheet, of which one can be used as stop or a similar speed.

Using the following is a basic mode, the rotor and stator is used for mounting slip ring, which can avoid foreign matter into the slip ring.

4. The slip ring cannot bear weights of the connecting equipment, hence more devices should be installed up to avoid the weight being added to the slip.
5. The slip ring should be protected from dust and moisture. For example, protective cover should be equipped when used in a harsh environment.
6. The surface of all wires should be protected from damaging when the equipment rotates, and all kinds of wires cannot bear weight when wires are wrapped.
7. Don't damage wire when cutting and stripping the wire.