LPKS Pancake Slip Rings



Electrical & Electronics		Mechanical		Environmental	
Number of Circuits	1~10 circuits	Working Speed	0~100rpm	Temperature	Industrial: -20℃~+60℃
Current	5A/Signal	Contact Material	Precious metal/ Gold to gold		Military: -55℃~+80℃
Voltage	240VAC/DC	Housing Material	FR-4	Humidity	Below 60%RH
Dielectric Strength	500VAC@50Hz (power) 300VAC@50Hz (signal)	Torque	0.1N.m(Reference)	Others	
Insulation Resistance	≥500MΩ@500VDC	Wire Type	AWG20# Teflon®UL	Life Span	10Mio
Electrical Noise	≤20MΩ (At the speed of 50rpm)	Wire Length	Stator: 300mm Rotor: 300mm		

Brief Introduction

This series is divided into an integrated pancake slip ring and a separate pancake slip ring. The integrated pancake slip rings provide vias of different size; the separate pancake slip ring consists of a separate rotor and a stator to meet more stringent height requirements, and can be installed by the customer according to the application environment.

Features:
Minimum thickness up to 5.4m
Transmit analog and digital signal

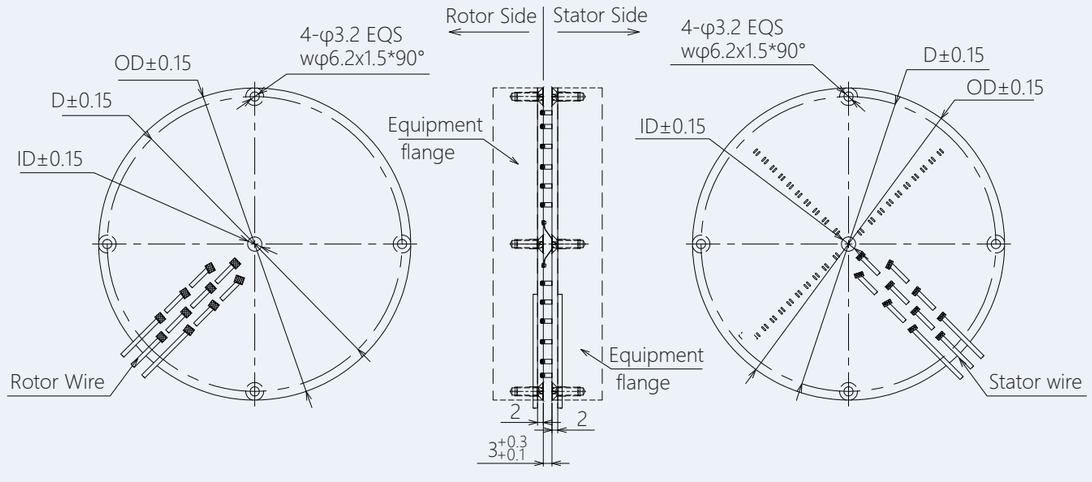
The power and signal are mixed transmitted, and the signal categories are as follows:
- Ethernet: Rate (10Mbps/100Mbps/1000Mbps)
- Industrial Ethernet: ProfiNet, Powerlink, SercosIII, EtherCAT, EtherNet/IP, etc.
- HD video: SDI, LVDS, etc.
- Serial communication: RS232, RS485, RS422, etc.
- Universal Serial Bus: USB2.0
- Industrial Fieldbus: CANBus, CC-Link, InterBus, DeviceNet, ProfiBus, etc.
- Sensor signal: thermal resistance, thermocouple, strain gauge, etc.
- Shock-resistant, maintenance-free

Optional:
- Inner diameter & Outer diameter/Number of circuits/Current & Voltage/Wire length/Housing material and color/Protection level/Signal and power can be transmitted separately or in combination

Main Applications:
- Military Equipments
- Medical Equipments
- Wind Turbine
- Test Equipment
- Revolving Door
- Robot

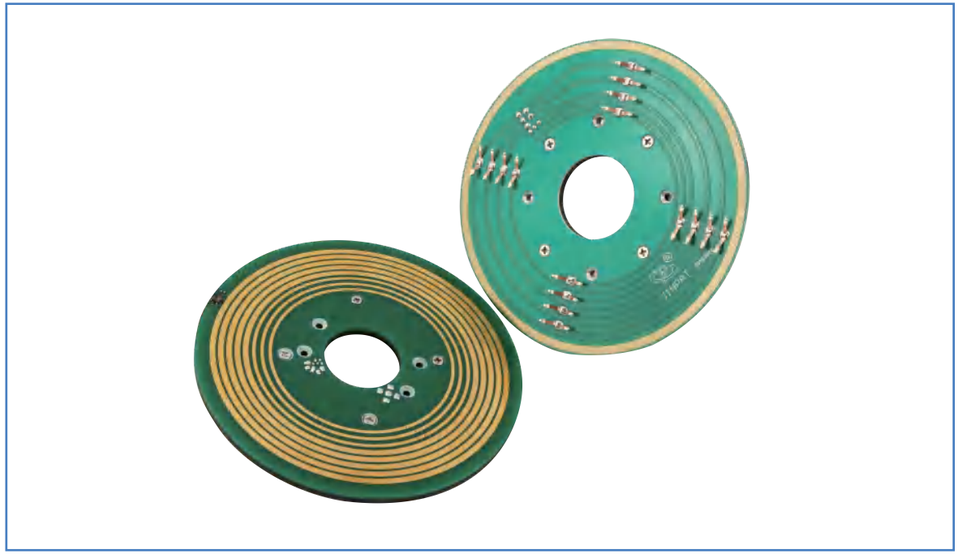
Installation Instructions of Separate Pancake Slip Ring

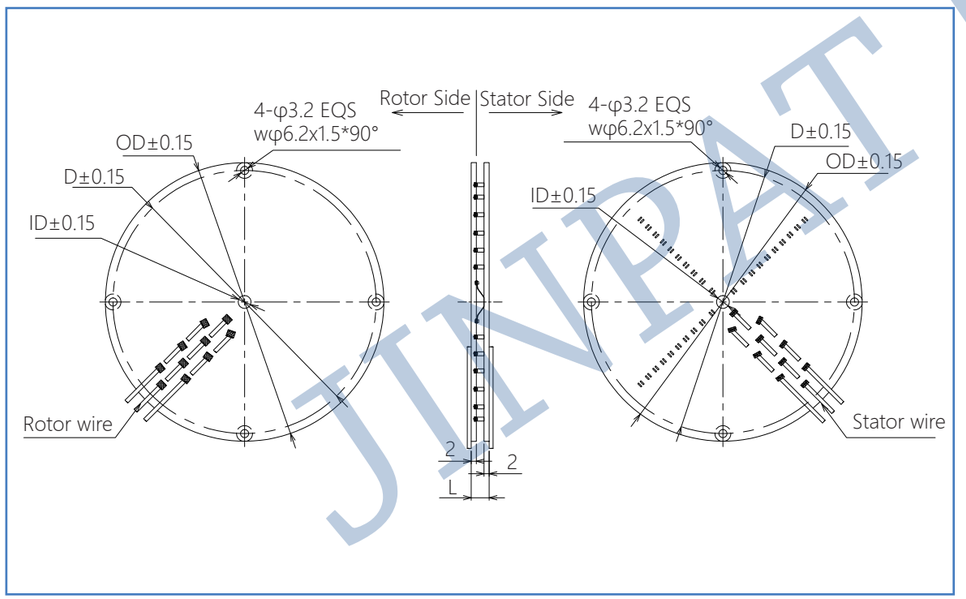
1. First install the rotor side. Fix the rotor PCB board to the flange of the device with the corresponding screws;
2. Then install the stator side. Fix the stator PCB board to the flange of the device with the corresponding screws;
3. Debug the coaxiality of the slip ring. The brush shrapnel contacts on the stator side must be adjusted to the center of the rotor side ring to ensure the coaxiality between the slip ring and the device;
4. Debug the distance between the two PCB boards. The distance between the stator side PCB board and the rotor side PCB board is L (+0.1/+0.3) mm.



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LPKS Pancake Slip Rings Outline Drawing





LPKS Pancake Slip Rings						
Model	**Number of Circuits**	**Voltage (AC/DC)**	**Current (A)**	**OD*Length (L) (mm)**	**(ID) (mm)**	**Reference Circle (D) (mm)**
LPKS005-0105	1	240V	5	Φ34×7	5	30
LPKS005-0205	2	240V	5	Φ42×7	5	38
LPKS005-0305	3	240V	5	Φ52×7	5	46
LPKS005-0405	4	240V	5	Φ60×7	5	54
LPKS005-0505	5	240V	5	Φ68×7	5	62
LPKS005-0605	6	240V	5	Φ76×7	5	70
LPKS005-0705	7	240V	5	Φ84×7	5	78
LPKS005-0805	8	240V	5	Φ92×7	5	86
LPKS005-0905	9	240V	5	Φ100×7	5	94
LPKS005-1005	10	240V	5	Φ108×7	5	102
LPKS019-0905	9	240V	5	Φ108×7	19	102
LPKS028-0805	8	240V	5	Φ108×7	28	102
LPKS036-0705	7	240V	5	Φ108×7	36	102
LPKS045-0605	6	240V	5	Φ108×7	45	102
LPKS053-0505	5	240V	5	Φ108×7	53	102
LPKS061-0405	4	240V	5	Φ108×7	61	102
LPKS069-0305	3	240V	5	Φ108×7	69	102
LPKS076-0205	2	240V	5	Φ108×7	76	102
LPKS084-0105	1	240V	5	Φ108×7	84	102

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