



LPFO-1F3005

Fiber optic rotary joint

Description

Fiber Optic slip ring, using optical fiber as data transmission media, to solve the problem of system components of rotating connection between data transmission, provides the best technical solutions. This product is especially suitable for application in need of unrestricted, continuous or intermittent rotation, and also need to send the large capacity data from a fixed position to the rotational position, signal, it can improve the mechanical properties, simplifying the system operation, avoid activities due to the rotation of the joints on the damage of the fiber, and can be used with traditional electronic bus ring, made convergence of optical-electrical hybrid ring, transmit power and high speed data.

Main Application

- Robotics Vehicles
- Material Handling Systems
- Material Handling Systems
- Radar Antennas
- Fiber Optic Cable Reels
- Medical Systems
- Medical Systems
- Medical Systems
- Security Systems
- Marine Population Systems

Option

- Transfer materials
- Single way or normal waveguide design
- SM/MM
- Housing material
- Drive connector

Features

- Suitable for harsh environment
- No contact, no friction, long life time.
- No leaks, no electromagnetic interference.
- Long distance transmission
- Combined with liquid rotation to rotate interface transmission liquid and gas
- Small size, light weight

Specification	
Performance	Index
Circuits	1 circuit Fiber Optic, 30 circuits current rating
Working Speed	0-500rpm
Working Temperature	-40°C ~ +65°C
Optical performance	
Wavelength Range	1310/1550 nm (SM), 850/1310/1550 nm (MM)
Insertion Loss	<2 dB
Insertion loss value change	~+/-0.5-1dB
Return loss	>45 dB
Crosstalk	SM / MM
Connector Types	FC/SC/ST/SMA LC
Mechanical performance	
Voltage Rating	250VAC/DC
Current Rating	5A per circuits
Dielectric Strength	500VAC@60Hz
Insulation resistance	1000MΩ@500VDC
Electrical Noise	≤0.5Ω
Torque	<0.01Nm
Housing Material	Aluminum Alloy
Weight	~ 250g
Lead wire size	AWG22 , 100mm
IP	IP68/IP50
If there are any special requirements please contact us, We can customized for you .	

