



LPFO-07A

Fiber optic rotary joint

Main Application

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

Option

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

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.

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

Specification	
Performance	Index
Circuits	3~7 Channels
Working Speed	200rpm
Working life	100 million
Working Temperature	-20°C ~ +65°C
Optical performance	
Fiber Types	SM / MM
Wavelength Range	850-1550nm
Insertion Loss	< 5dB
Insertion loss value change	<1 dB
Return loss	> 45 dB
Crosstalk	>50 dB
Connector Types	ST/FC/SC/LC
Optical power	23 dBm
Mechanical performance	
Tensile force	10N
Housing Materials	Aluminum Alloy
Encapsulation type	Both ends of the tail fiber
Size	44mm X 111mm
IP	IP65/IP68
If there are any special requirements please contact us, We can customized for you .	

Remarks :

- LPFO-07A-SM is Single mode
- LPFO-07A-MM is Multi-mode
- LPFO-07A-XM is Integrated product with Single mode / Multi-mode
- Same size for above three types.

Drawing: