

# Fiber Optic Rotary Joints



## Main Application

- ◆ Vehicle Turrets
- ◆ Medical Systems
- ◆ Radar Antennas
- ◆ Robotics Vehicles
- ◆ Security Systems
- ◆ Material Handling Systems
- ◆ Sensor Platforms
- ◆ Remotely Operated Vehicles
- ◆ Video Surveillance Systems
- ◆ Fiber Optic Cable Reels
- ◆ Marine Population Systems
- ◆ Wind Energy Turbines

Contact us to discuss your special needs

## LPF0-01

## Fiber Optic Rotary Joints

### Description

Fiber Optic Rotary Joint (FORJ) would be designed for the most demanding requirements and tested for those rugged environment and superb optical performance. All of materials and components have been selected to ensure the highest reliability in extreme conditions, including shock & vibration, working temperature, working humidity and dust. The design of these FORJ has proven performance records in both industrial and military applications. Also the package can be configured to fit the customer's specific need.

FORJ are available in single and multi-channel options. The most cost and size efficient options are the single and dual channel design. If more than two fibers are present in a system, multiplexing solutions are available to combine multiple channels onto one or two fiber to allow the use of a one or two channel FORJ.

### Features

- ◆ Ruggedized for harsh environments
- ◆ High return loss and low crosstalk
- ◆ Compact size and package
- ◆ High transmission rates and low resistance
- ◆ Variety of configuration options
- ◆ Custom designs available

### Option

- ◆ Single channel design
- ◆ Working in high shock environment
- ◆ Exceed 100km fiber data connector
- ◆ Integrated power channel and signal channel
- ◆ Housing material/ Package style

# Fiber Optic Rotary Joints

Specification	
Wavelength	1550nm
Mode	Single mode
Circuit	Single channel
Working Speed	>100 rpm
Insertion Loss	<2 dB
Return Loss	>54 dB
Thrust	12N
Connector Type	FC
Working Temperature	0~50°C
Storage Temperature	0~80°C

- ◆ The operating life of the unit depends upon temperature, rotation speed and environment.

Model : LPFO-01

