

Fiber Optic Rotary Joints

Description

Fiber Optic Rotary Joints (FORJs) are to optical signals what electrical slip rings are to electrical signals, a means to pass signals across rotating interfaces, particularly when transmitting large amounts of

for over 20 years.

Single or Multi-channel

FORJs are available in single and multi-channel options. The most

allow the use of a one or two channel FORJ.

designs; FO190, FO242 and FO291 where single channels are stacked to achieve the desired number of channels. The FO300 uses

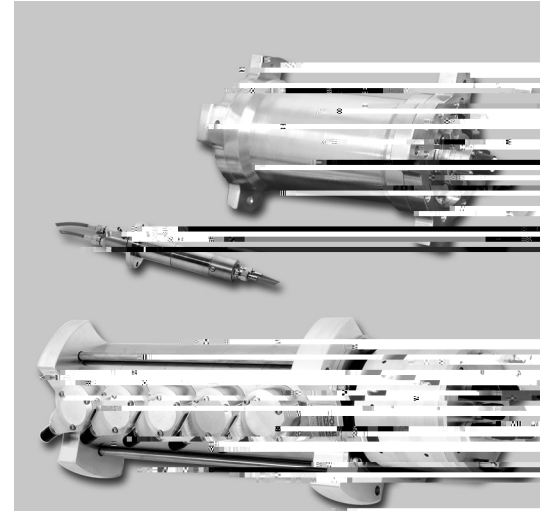
Singlemode or Multimode

energy due to their small core size and small numerical aperture and

allowing the propagation of multiple modes of optical energy. These features allow larger amounts of light to be transmitted from sources such as LEDs and VCSELs, but result in higher attenuation and

Features

- Ruggedized for harsh environments
- Compact sizes
- Custom designs available



Typical Applications

- Robotics
- Vehicle turrets
- Radar antennas
- Medical systems
- Security systems
- Sensor platforms
- Material handling systems
- Remotely operated vehicles
- Fiber optic cable reels
- Video surveillance systems
- Marine propulsion systems
- Wind energy turbines

FORJ Performance Data



* The FO242 and FO190 can be combined to offer a hybrid multimode and singlemode solution
SM = Singlemode MM = Multimode

* Right angle options available
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Shock and Vibration

Moog Component Group FORJs support high shock and

are available that are tested to MIL-STD-167-1, MIL-STD-202, MIL-STD-204 for vibration and MIL-STD-810D / E and MIL-STD-901D for shock.

Options

materials and drive couplers