

## **Product Description**

The single-channel single-mode fiber optic rotary module is passive, bidirectional and maintain the benefits of fiber optics (such as high bandwidth and EMI immunity) in systems with a rotational interface.

This cost-efficient FoRM model is designed for applications having moderate demands for optical performance. With the lens-less design, it can operate at various wavelength and support compact design. The FoRM can be combined with electrical slip rings through customization design process.

#### **Features**

- Provides rotary coupling for a multimode fiber link
- Compact Size
- Lens-less design
- Single mode and Multimode available.
- Small deviation in IL by rotating degree

## **Applications**

- Remote I/O in industrial machinery
- Video surveillance systems
- Material handling systems
- Turrets
- Indexing tables.
- Power Windmill
- Robotics



#### **Product Specifications**

Fiber Size(Microns)	9/125, 50/125 or 62.5/125(contact the vendor for other sizes)
Insertion Loss	Typical ≤ 1 dB, Maximum ≤ 1.5dB
Rotation Variation	Typical ≤ 0.3 dB, Maximum ≤ 0.5dB
Return Loss	Typical ≥ 50dB
Wavelength	850/1300/1550nm available(contact the vendor for other wavelength
Rotation Speeds	To 100 rpm, Higher RMA should be discussed with the vendor
Temperature	-40 ~ 80℃. Contact the vendor for extended range.
Exterior Surface	Stainless Steel
Vibration	Tested to MIL-STD-167-1
Shock	Tested to MIL-STD-810D
Water Proof	Tested to IP68
Terminations	SC, FC, ST, LC
Cable Length	As requested
Option	Hybrid combination with Electrical slip-ring



# Drawings



