

# FIBER OPTIC ROTARY JOINT F 5408

Passive, bidirectional, optical



Moog Rekofa's non-contact optical designs offer low attenuation and excellent electromagnetic compatibility, even in the most challenging industrial environments. For more than 20 years Moog Rekofa supplies standard and custom Fiber Optic Rotary Joints with high performance and high quality to customers worldwide.

The F 5408 is a single-channel multimode FORJ, which is passive and bidirectional. Thanks to the use of lens technology with different AR coatings, the cost-efficient FORJ F 5408 works at different wavelengths. The high bandwidth and EMI immunity are among the major advantages of lightwave transmitters. Low insertion loss and variance round off the features of the new model from Moog Rekofa.

By being able to combine the FORJ with our electrical and fluidic slip rings, we are able to offer our customers a perfect package for the transmission of optical signals, data, electrical power and fluids.

## Features:

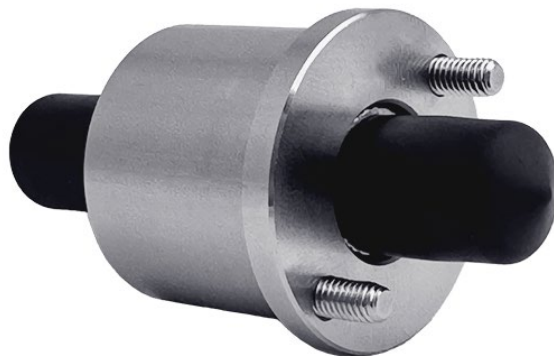
- Can be integrated into existing slip ring designs
- Can be combined with our electrical slip rings and fluid unions
- Connectorized interfaces, for easy fiber cable replacement
- Media converter that convert electrical signals into optical signals and vice versa, depending on the required fiber type, wavelength and data rate.

## ADVANTAGES

- Compact size
- Passive bidirectional optical transmission
- Long Life
- Combination with our slip rings and fluid unions
- Protection class IP44, Design can be modified up to IP6x
- Combination with media converter

## APPLICATIONS

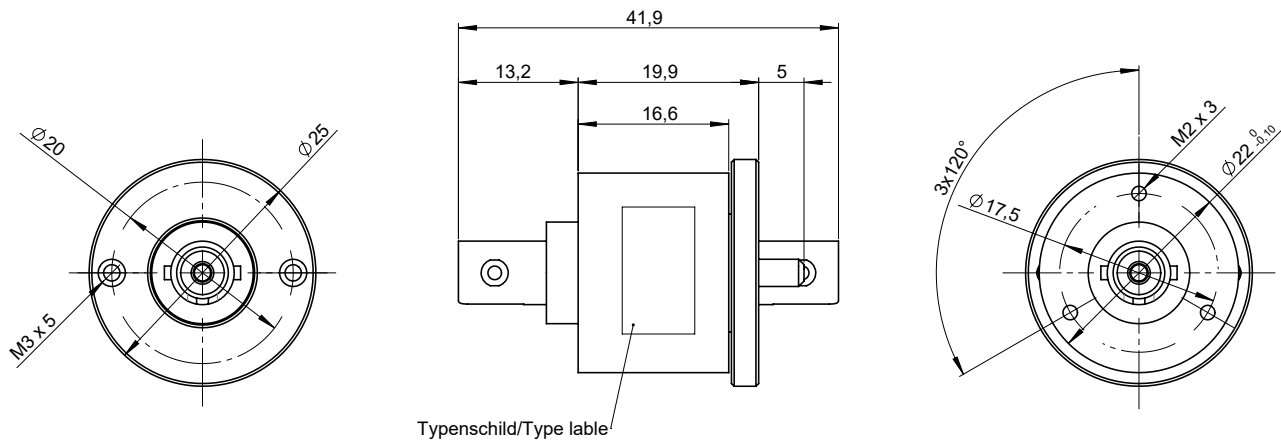
- Wind turbines
- Advertising
- Cable Reeling Drum
- Video surveillance systems
- Operational lamps
- Material handling systems
- Robotics
- Labeling/filling machines
- Indexing tables



# SPECIFICATIONS

## TECHNICAL DATA

<b>Fiber Size (Microns)</b>	50 / 125 or 62.5 / 125
<b>Insertion Loss</b>	< 3.5 dB
<b>Rotation Variation</b>	< 1.0 dB
<b>Back Reflection</b>	> 13 dB
<b>Wavelength</b>	Type <b>F 5408 F</b> : 850 – 1310 nm      Type <b>F 5408 E</b> : 1310 – 1550 nm
<b>Rotational Speed</b>	1.000 rpm
<b>Temperature</b>	- 40 °C up to 80 °C
<b>Life</b>	> 50 Mio. revolutions
<b>Exterior Surface</b>	Stainless Steel
<b>Vibration</b>	1 g / 50 to 200 Hz      DIN EN 60068-2-6
<b>Shock</b>	10 g / 11 ms      DIN EN 60068-2-27
<b>Terminations</b>	Standard with ST receptacles
<b>Pigtail Length</b>	Coupling ST to customer connector



For more product information: [www.moog.com](http://www.moog.com)

For more information or the office nearest you, contact us online: [rekofa.info@moog.com](mailto:rekofa.info@moog.com)

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