

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 fiber optic rotary joint, which is passive and bidirectional. The benefits of fiber optics are for example high bandwidth and EMI immunity.

The cost-efficient FORJ F 5408 is deployed in applications with moderate demands for optical performance and life. Because by using lens technology the FORJ operates at different wavelengths.

We are able to offer our customers a package for optical signals, data transfer, electrical power and fluid transfers due to the possibility of combine the FORJ with our electrical and fluid slip rings.

Features:

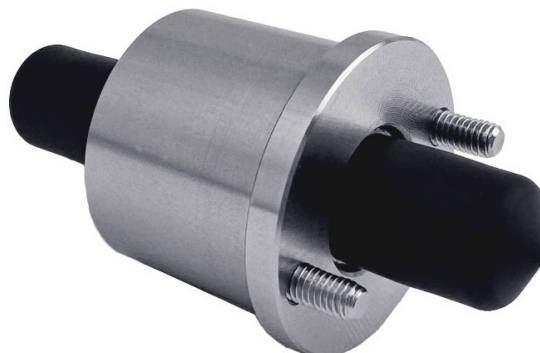
- Can be integrated into existing slip ring designs
- Can be combined with our electrical slip rings and fluid unions
- Connectorized interfaces, for easy fiber cable replacement
- Media converter that convert electrical signals into optical signals and vice versa, depending on the required fiber type,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

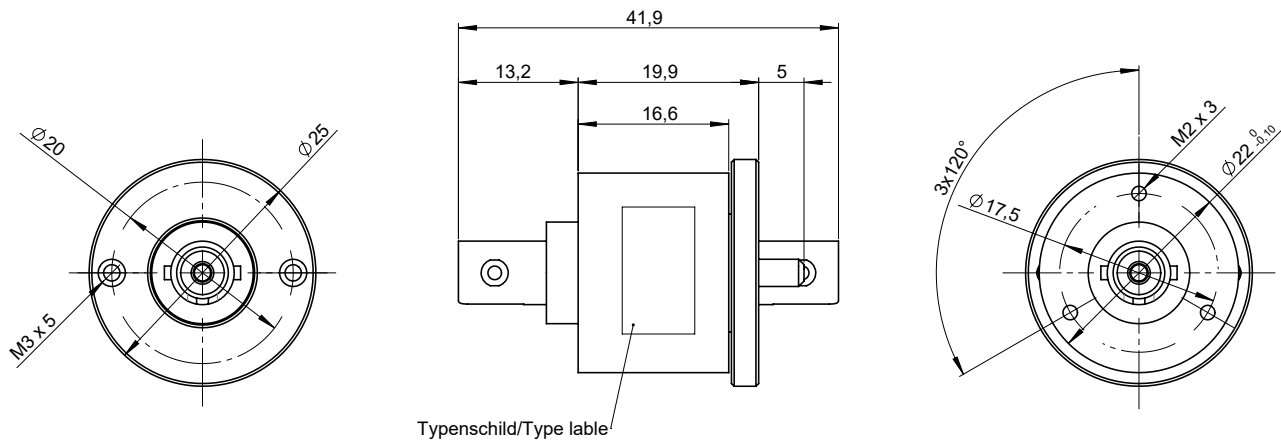
- Wind turbines
- Advertising
- Cable Reeling Drum
- Video surveillance systems
- Operational lamps
- Material handling systems
- Robotics
- Labeling/filling machines
- Indexing tables



SPECIFICATIONS

TECHNICAL DATA

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



For more product information: www.moog.com

For more information or the office nearest you, contact us online: rekofa.info@moog.com

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