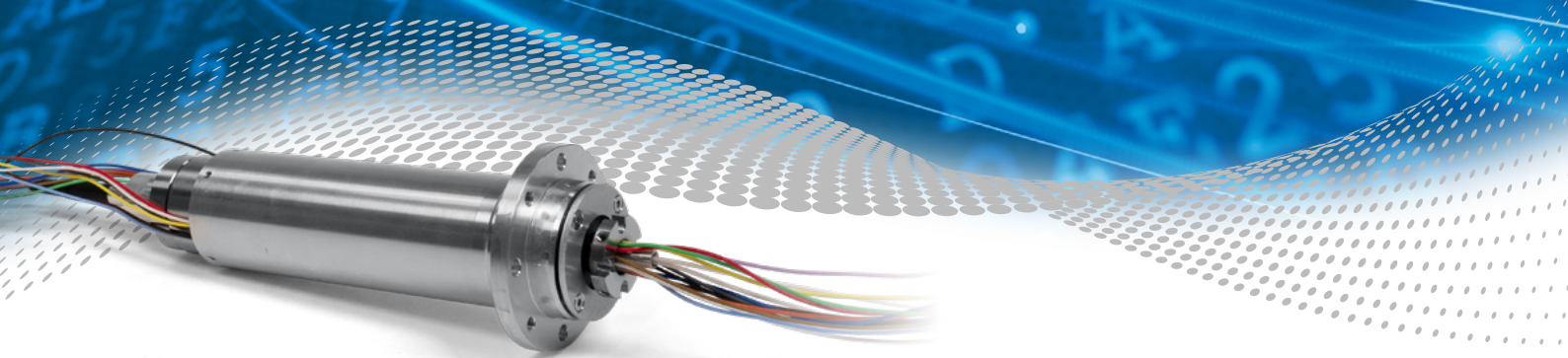


SPINNER

Fiber Optic Rotary Joint with Slip Ring – P-FORJ



Combinations of FORJ and Slip Ring



HIGH FREQUENCY PERFORMANCE WORLDWIDE
www.spinner-group.com



The SPINNER Group

For more than 75 years, the SPINNER Group has been setting new standards worldwide in high-frequency technology. Based in Munich with production facilities in Germany, Hungary, and China, SPINNER currently has over 900 employees. Our international network of subsidiaries and distributors supports customers in more than 40 countries.

SPINNER Rotating Solutions

SPINNER has become one of the leading manufacturers in **rotary joints** thanks to its innovative approach, technical expertise, and high standards of quality. Our products are used in **maritime applications (both above and below water), on land, in the air, and in space.**

Across all applications, the trend toward digitization and increasing data transmission rates is continuing. Our contactless modules for rotating systems deliver benefits whenever slip rings are inadequate due to large outer diameters and/or high data transmission rates.



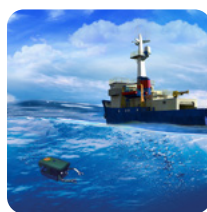
INDUSTRIAL
AUTOMATION



WIND ENERGY



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RADAR

SPINNER Fiber Optic Rotary Joint with Slip Ring: P-FORJ

Fiber optic rotary joints (FORJs) are powerful tools for transmission at high data rates via rotating interfaces. Such applications typically require the conversion of electronic data into light signals on either or both sides of the rotating junction. Powering the electro-optical converter at the rotating side is crucial in these cases.

To solve this problem, we have designed a P-FORJ (P stands for power) that transmits light signals and electric power at the same time. Any desired combination of high-quality SPINNER FORJ and slip ring can be easily configured to suit your application.



Smallest P-FORJ in the Market

We offer you the smallest P-FORJ now available in the market. It enables high data transmission rates while only requiring seven millimeters of free space around its rotational axis. And if its slip ring wears out, it's designed for very easy replacement to let you take full advantage of the exceptionally long life and reliability that characterize all SPINNER fiber-optic rotary joints.

We supply our P-FORJs together with standard lengths of fiber and electric cable. If our regular portfolio doesn't meet your requirements, please don't hesitate to contact us – you can count on us to offer you a viable solution.

Motor-driven hybrids, encoders, and RF rotary joints are also available. Please also ask about our specially designed and tested fiber-optic multiplexers for combining with our P-FORJ.

SPINNER Fiber Optic Rotary Joint with Slip Ring: P-FORJ

Configure your SPINNER P-FORJ:

Rotary Joint	Fiber Optic	Power Rings	Data Rings		Fiber Channel Count	Fiber Type		FO Connector C1	FO Connector C2		Fiber Protection P1 / P2		Unique Identifier	
P	O	XX	ZZ	-	X	Z	-	XXX	ZZZ	-	XZ	-	XZ	
Ø 14 mm (w. 1.068) Ø 20 mm (w. 1.14 IL) Ø 22 mm (w. 1.14 IL) Ø 30 mm (w. 1.14 IL) Ø 30 mm (w. 2.25 IL) Customized		Combined Up to 06 Combined Up to 08 Combined Up to 24 Combined Up to 36 Combined Up to 36												
w. 1.068					P									
w. 1.14					G									
w. 1.14L					H									
w. 2.25					D									
w. 2.25L					N									
Single-mode E9 / 125 (standard OS1)						S								
Single-mode SMF28 Ultra						U								
Multi-mode G50 / 125 (standard OM2)						M								
Multi-mode G62.5 / 125 (OM1)						N								
Special fiber (e.g. G657, HI1060, etc.)						X								
Type C1 and C2 Connectors														
Connector/Polish														
LC / APC (standard, singlemode)								LCA	LCA					
LC / PC								LCP	LCP					
FC / APC								FCA	FCA					
FC / PC (standard, multimode)								FCP	FCP					
SC / APC								SCA	SCA					
SC / PC								SCP	SCP					
ST / PC								STP	STP					
MU / APC								MUA	MUA					
MU / PC								MUP	MUP					
Fiber protective tube with 900 µm buffer					30 mm bending radius (standard)					1				
Fiber protective tube with Kevlar / aramid armor					20 mm bending radius (optional)					2				
Metal protective tube					30 mm bending radius (optional)					M				

Example: Slip ring combination with a 2CH FORJ L-type with SMF28 Ultra, FC/APC with Kevlar protection with three power rings for 24V/2A, one RS422 (e.g. six rings) and a CAN-BUS (e.g. three rings) for SPINNER (e.g. SP): **PO-0309-NU-FCAFCA-22-SP**



HIGH FREQUENCY PERFORMANCE WORLDWIDE

SPINNER designs and builds cutting-edge radio frequency systems, setting performance and longevity standards for others to follow. The company's track record of innovation dates back to 1946, and many of today's mainstream products are rooted in SPINNER inventions.

Industry leaders continue to count on SPINNER's engineering excellence to drive down their costs of service and ownership with premium-quality, off-the-shelf products and custom solutions. Headquartered in Munich, Germany, the global frontrunner in RF components remains the first choice in simple-yet-smart RF solutions.

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