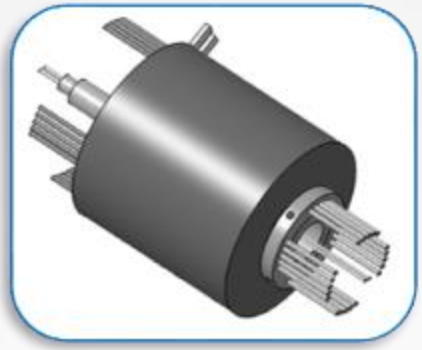
Spin Tact™ Hybrid Slip Ring with Fiber Optic Rotary Joint

Compact rotary interface for power, signal & optical data transmission



Key Features:

- Hybrid slip ring + Fiber Optic Rotary Joint (FORJ) in a single compact assembly
- Supports continuous 360° rotation with power, signal, and optical data transfer
- Optical: 2-channel multimode FORJ, 850–1310 nm, low insertion loss
- Electrical: Multiple signal circuits with gold/silver contact technology
- Designed for EO/IR turrets, radar systems, UAV payloads, and industrial automation
- Engineered for harsh environments and long service life

Category	Parameter	Specification
Mechanical	Housing Material	Aluminum Alloy
	Maximum Rotation Speed	Up to 250 RPM
	Torque	< 5 N·m
	IP Rating	IP50 or better
Electrical – Power & Signal	Ethernet	1 Gbps, 1 port (9 lines)
	Power Circuits	48 circuits @ 2 A, 60 V
	High-Power Circuits	16 circuits @ 10 A, 220 V
Electrical – Performance	Insulation Resistance	> 200 MΩ @ 500 VDC
	Contact Resistance	< 100 mΩ (without cables)
Environmental	Operating Temperature	–40 °C to +80 °C
	Storage Temperature	–40 °C to +80 °C
	Environmental Compliance	Designed to meet MIL-STD-810H
FORJ (Optical)	Number of Channels	2
	Fiber Type	Multimode
	Operating Wavelength	850 nm – 1310 nm
	Insertion Loss (Max)	3.5 dB
	Insertion Loss Variation (Rotation)	1.5 dB
	Connector Type	FC/PC