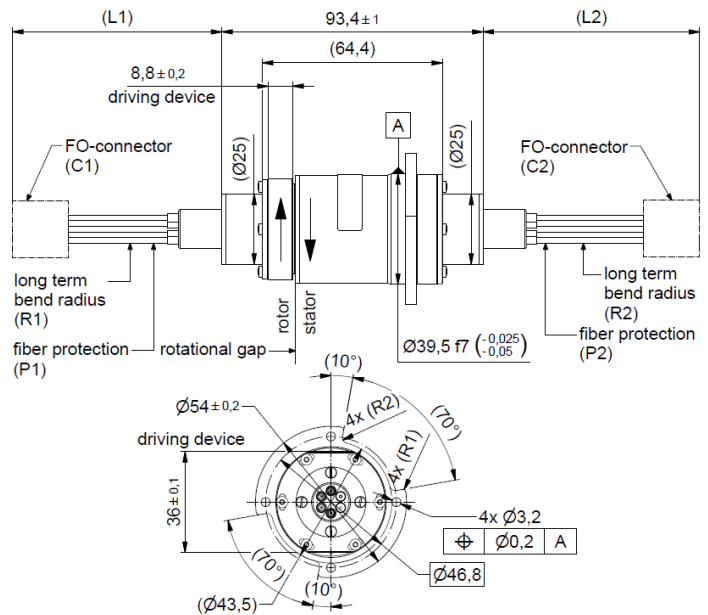


Rotary Joint || BN 549760C0409



all dimensions in millimeter

Fiber optic channel characteristics

Channels	4 CH	
Channel designation	1 to 4	
Fiber type	Multimode G50 / 125 µm	
Side	Rotor	Stator
FO connector (C1 / C2)	Elio Contact ELIO20WGLA	Elio Contact ELIO20WGLA
Fiber protection (P1 / P2)	2 mm cable	2 mm cable
Fiber length (L1 / L2)	500 ±50 mm	500 ±50 mm
Long term bend radius, min.	30 mm	30 mm
Wavelength	850 nm / 1300 nm	
Average power capability, max.	10 mW / 10 dBm	
Insertion loss, max.	5.5 dB *)	
Insertion loss variation over rotation, max.	1.5 dB	
Cross talk, min.	50 dB (between all channels)	

*) values incl. Patch Cords and Elio-Contacts; with standard connector the IL of the FORJ is max. 3.5 dB

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Mechanical characteristics

Rotating speed, max. / nominal	150 rpm / 100 rpm
Life, min.	200 x 10 ⁶ revolutions
Torque (room temperature), max.	0.15 Nm @ rotation
Interface loads, max.	±0.4 Nm bending moment
Case material	stainless steel and copper alloy, corrosion resistant
Case surface finish	no finish
IP protection level	IP50 per EN 60529 (all interfaces connected with appropriate gaskets)
Weight, approx.	0.7 kg
Marking	adhesive label (SPINNER logo)

Environmental conditions

Operation	
Ambient temperature range	-40 °C to +85 °C
Relative humidity, max.	95% (non-condensing)
Shock	30 g / 11 ms half sine, 3 shocks in each direction of 3 orthogonal axes
Vibration	6 to 17 m/s ² rms, 5.1 to 480 Hz, in three orthogonal axis
Storage	
Ambient temperature range	-40 °C to +85 °C
Relative humidity, max.	95% (non-condensing)

Applicable documents

Technical information	"Rotary Joints – Glossary", Technical Document TD-00021, Spinner GmbH
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