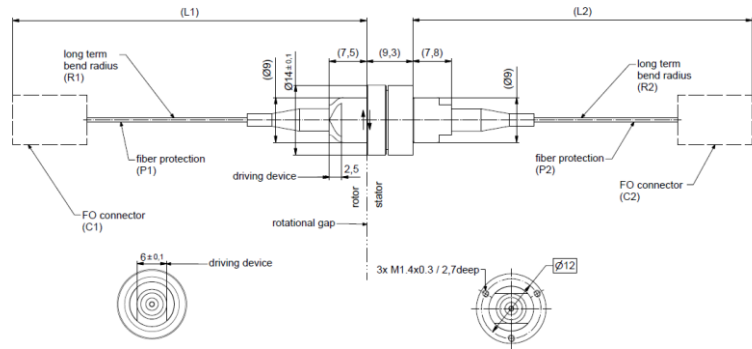


Rotary Joint || BN 549383C0102



all dimensions in millimeter

Fiber optic channel characteristics

Channels	1 CH	
Channel designation	1	
Fiber type	Singlemode E9 / 125	
Side	Rotor	Stator
FO connector (C1 / C2)	LC/APC	LC/APC
Fiber protection (P1 / P2)	900 µm buffer	900 µm buffer
Fiber length (L1 / L2)	1500±150 mm	1500±150 mm
Long term bending radius, min. (R)	30 mm	30 mm
Wavelength	1310 nm / 1550 nm	
Average power capability, max.	200 mW / 23 dBm	
Return Loss, min. / typ.	50 dB / 55 dB	
Insertion loss, max.	2 dB	
Insertion loss variation over rotation, max.	1.0 dB	

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## Rotary Joint || BN 549383C0102

### Mechanical characteristics

Rotation speed, max.	20000 rpm*
Life, min.	200 x 10 <sup>6</sup> revolutions
Torque (room temperature), max.	0.06 Nm @ rotation
Interface loads, max.	no loads allowed**
Case material	copper alloy, corrosion resistant
Case surface finish	no finish
IP protection level	IP54 per EN 60529 (all interfaces connected with appropriate gaskets)
Weight, approx.	0.02 kg
Marking	laser engraving (SPINNER logo)

\* tested at 16000 rpm, compliant at 20000 rpm

\*\* mounting situation crucial

### Environmental conditions

<b>Operation</b>	
Ambient temperature range	room temperature (passive cooling) ***
<b>Storage</b>	
Ambient temperature range	-40 °C to +85 °C
Relative humidity, max.	95% (non-condensing)

\*\*\* wider temperature range possible with appropriate temperature stabilization system

### Applicable documents

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