

CF0 1-TB | Single Channel Fiber Optic Rotary Joint



The Conductix-Wampfler FORJ type CF0 1-TB provides light transmission over rotating joints in all industrial automation applications, including machine tools, automated packaging, rotary stages, wind turbines, offshore rigs, materials handling, etc.

Its very small size make it suitable for integration in compact slip rings and applications where space is limited.



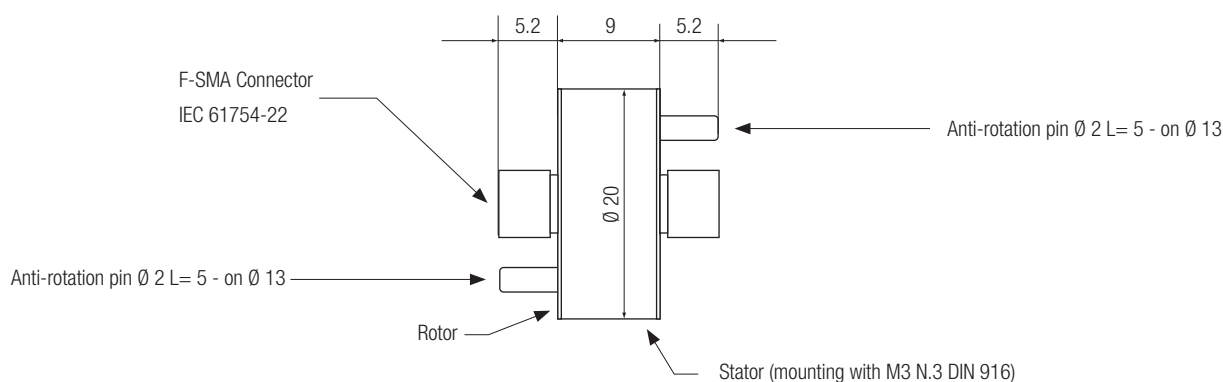
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Main Features



Excellent optical performance for blue 470 nm, green 525 nm and red 650/660 nm wavelengths.

Ready-to-use Plastic Optical Fiber (POF) patches with the desired length could be easily connected to both sides of CFO 1-TB.



All dimensions are in millimeters.

Do not secure the two parts of the FORJ in a rigid manner.

General Data	
Fiber type	Plastic Optical Fiber (POF)
Connectors	F-SMA (IEC 61754-22)
Weight	20 g
Housing material	303 Grade Stainless Steel
Optical Characteristics	
Typical attenuation @ 650nm (red light), variations included	< 3 dB
Attenuation variation (@650nm)	≤ 0.5 dB

Mechanical Characteristics	
Max. rotating speed	300 rpm
Lifetime (min)	> 15 million revs
Environmental Characteristics	
Operating temperature	-25°C ... +70°C
Storage temperature	-40°C ... +85°C