CFO-A 1 | Single Channel Fiber Optic Rotary Joint

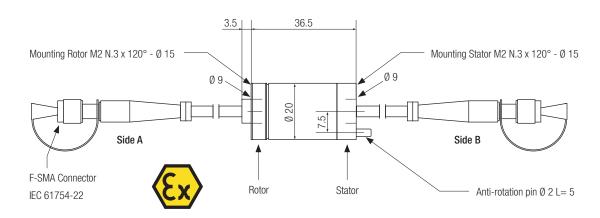


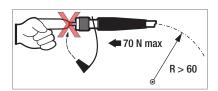


Main Features

Excellent optical performance for blue 470 nm, green 525 nm and red 650/660 nm wavelengths. Pre-installed optical cable with connectors.







All dimensions are in millimeters.

Do not secure the two parts of the FORJ in a rigid manner. Do not match the FORJ to a laser light. Avoid contacting the Plastic Optical Fiber with fingers, alcohol, solvents, oils, greases, dust (always apply the protective plastic cap).

General Data	
No. of passive optical channels	1
Fiber type	Plastic Optical Fiber (POF)
Fiber core/cladding diameter	980/1000 μ m
Fiber bandwidth	30 MHz * 100 m
Fiber attenuation @ 650 nm	150 dB / km
Fiber numerical aperture	0.46
External sheath of the optical cable	PE-HD type M1, yellow, D=4mm
Standard length of the optical cables	(0.5 + 0.5) m
Connectors	F-SMA (IEC 61754-22)
Weight	90 g
Housing material - standard / off shore	303 Grade / 316 Grade Stainless Steel
Optical Characteristics	
Max. attenuation @ 650 nm (red light), connectors and POF excluded, variations included	< 3 dB
Attenuation variation (@650 nm)	0.5 dB

Mechanical Characteristics	
Max. rotating speed	300 rpm
Lifetime (min)	> 15 million revs
Max. pulling force of the cables	70 N
Bending radius of the optical cable	> 60 mm
Start up torque	0.03 Nm
Vibration test	EN 60068-2-64 (5-300 Hz random / 10 g)
Structural shock test	EN 60068-2-27; MIL-STD-810F; (semisinus 200 g / 6 ms)
ATEX marking	II 1GD c IIC T5 IP65 -25°C <ta<+70°c< th=""></ta<+70°c<>
Environmental Characteristics	
Operating temperature	-25°C +70°C
Storage temperature	-40°C +85°C
Degree of protection	IP65
	10 0 111 100 0