CFO-A 2 | Dual Channel Fiber Optic Rotary Joint

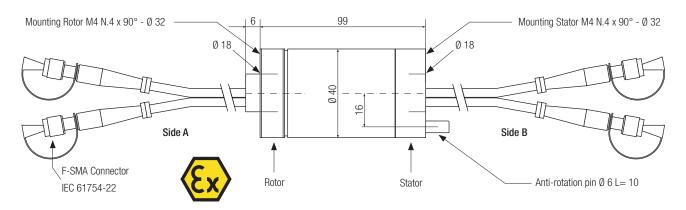


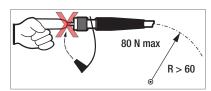


Main Features

Excellent optical performance for blue 470 nm, green 525 nm and red 650/660 nm wavelengths with low channel crosstalk and high channel isolation. Pre-installed optical cable with connectors - up to 50 m total length.







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	2
Fiber type	Plastic Optical Fiber (POF)
Fiber core/cladding diameter	980/1000 μm
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 = 4 mm
Standard length of the optical cables	2 × (0.5 + 0.5) m
Connectors	F-SMA (IEC 61754-22)
Weight	800 g
Housing material - standard / off shore	Grade 303 / Grade 316 Stainless Steel
Optical Characteristics	
Max. attenuation Ch1 @ 650 nm	6 dB
Max. attenuation Ch2 @ 650 nm	10 dB
Attenuation variation Ch1 @ 650 nm	1.5 dB
Attenuation variation Ch2 @ 650 nm	2.5 dB

Mechanical Characteristics	
Max. rotating speed	300 rpm
Lifetime (min)	> 15 million revs
Max. pulling force of the cables	80 N
Bending radius of the optical cable	> 60 mm
Start up torque	0.1 Nm
Vibration test	EN 60068-2-64 (5-300 Hz random / 10g)
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

- Also available as a package with our CFC media converters (see datasheet CFC) for industrial real-time Fast Ethernet (100 Mbps) transmission
- · Gigabit ethernet ready