

FOSR光电组合滑环

Fiber Optic Rotary Joint Combined Slip Ring

特点 Features

- 光电信号混走 Combination of electrical and optical transmission
- 体积小 Compact size
- 重量轻 Light in weight

可选项 Options

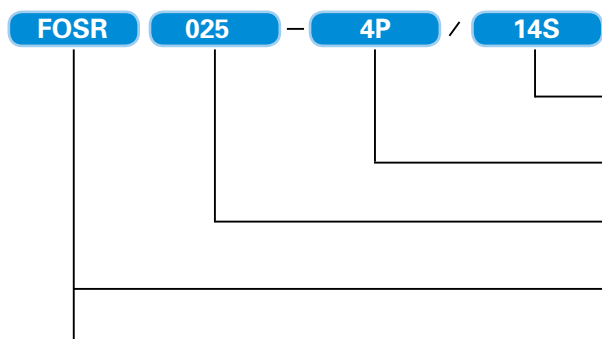
- 导线长度 Lead length
- 环道数 Number of rings
- 光纤类型 Fiber type
- 光纤接头 Connector type

典型应用 Typical Application


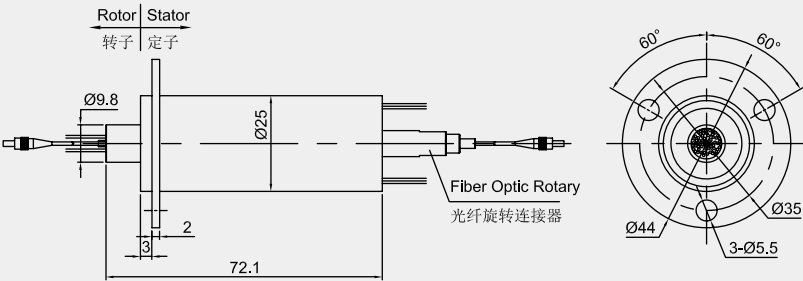
- 远程控制系统、数字和模拟信号的传输和控制
Transmission and control of remote control system, digital and analog signal.
- 雷达、天线系统 Radar and antenna system
- 视频监视系统 Video monitoring System

型号选用说明

Model explanation



- 14S代表14路信号通
14S:14 channels for signal
- 4P代表4路功率通道
4P:4 channels for power
- 025代表滑环外径
025: through bore diameter 25mm
- FO代表光纤
FO:Fiber Optics
- SR代表导电滑环
SR:Slip ring

型号 TYPE	外形尺寸 OUTLINE DIMENSION 单位UNIT (mm)
 <p data-bbox="295 1936 391 1957">FOSR025</p>	 <p data-bbox="1061 1800 1189 1843">Fiber Optic Rotary 光纤旋转连接器</p>

电气技术指标 Electrical data

参数 Specification	数值 Values
路数 No. of Circuits	30, 36
额定电压 Rated Voltage	240VDC / 240VAC
额定电流 Rated Current	标准每路2A Standard 2A/ring
绝缘体强度 Dielectric Strength	500VAC@60Hz,60s
绝缘电阻 Insulation Resistance	1000M Ω @500VDC
动态电阻变化值 Electrical Noise	$\leq 10\text{m}\Omega$

机械技术指标 Mechanical data

参数 Specification	数值 Values
工作速度 Operating Speed	0 ~ 250rpm
工作温度 Operating Temperature	-40°C ~ +80°C
接触材料 Contact Material	贵金属 Precious Metals
壳体材料 Housing Material	铝合金 Aluminum
防护等级 Protection level	IP51

光学性能指标 Optical properties

参数 Specification	数值 Values
工作波长 Wavelength range	650-1650nm 或者根据用户的要求 (or as request)
插损 Insertion loss	<2 dB (典型值 typical : <0.5 dB)
插损偏差 Insertion loss ripple	< ± 0.25 dB (典型值 typical : ± 0.15 dB)
回波损耗 Return loss	>40 dB (典型值 typical : 45 dB, 23 C)
弯曲半径 Bending radius	25mm (最小 minimum)
封装形式 Package style	两端尾纤 Pigtailed on both ends
光纤滑环壳体材料 Housing Material	不锈钢 Stainless steel
光纤类型 Fiber type	单模光纤或多模光纤 3mm外护套 Single or multimode w/3 mm jacket (Kevlar/PVC)
连接器类型 Connector type	FC, SC, ST, SMA, 或 LC