



FO100 series Single Channel Fiber Optic rotary joint

SenRing FO100 Single Channel Fiber Optic rotary joint, 1 channel fiber(support single mode/multi-mode) can transmit data with no loss when 360° rotating. Especially applied to those devices need to unlimited, continuous or intermittent rotation and transmit large capacity data or signal from stator side to rotor side. With the advantages of improving mechanical performance, simplifying system operation and avoiding damages to fiber optic caused by rotation of movable joints.

Part No. Description

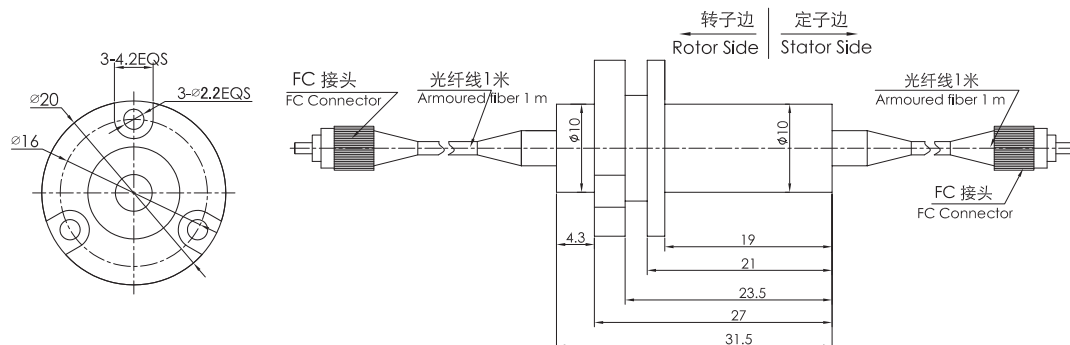
| FO100 | Fiber type | Connector type | wavelength |
|--|------------|--|--|
| FO100:signal channel Fiber optic rotary joint | | | Wavelength : 01:1310/1550 (Single mode) 02:850/1310 (multi mode) |
| Fiber type code : 01:9/125um(Single mode) 02:50/125um(multi mode) 03:62.5/125um(multi mode) | | Connector type code : FC:FC connector ST:ST connector SC:SC connector LC:LC connector t connector interface is PC by default, if need APC FC/APC pls add APC, as FC/APC | |

Examples

FO100-01-FC-01: FO100 means single channel Fiber Optic rotary joint, the first 01 means Fiber type 9/125um(single mode) , FC means FC connector, fiber interface PC, the second 01 means wavelength :1310/1550;

FO100-03-LC/APC-02: FO100 means single channel Fiber-Electric rotary joint, 03 means Fiber type 62.5/125m(multi-mode), LC/APC means LC connector, APC interface , 02 means wavelength :850/1310;

*Remark:If you have special requirements for fiber channel no., electric circuit no., Fiber connector type, wavelength or wire exiting, pls contact SenRing salesman.



Technical Specification of the slip ring

| item | type | Single mode (SM) | multi mode (MM) |
|--------------------------------|------|--------------------------|-------------------------|
| | | Bandwidth(nm) | ± 50 |
| Max insertion Loss, 23°C(dB) | | 1.2 | 0.7 |
| Insertion loss fluctuation(dB) | | ≤0.6 | ≤0.4 |
| Return loss(dB) | | ≥ 55(without connector) | ≥40(without connector) |
| max power(W) | | 0.5 | |
| Max speed(rpm) | | 2000 | |
| Working life | | >200 million | |
| Work Temperature(°C) | | -20~60 | |
| Storage temperature(°C) | | -50~85 | |
| IP grade | | IP54 | |