

FO209 series 2 channels Fiber-Electric slip ring



2 channels Fiber(support single mode/multi-mode) can be combined to transmit 1~24 circuits signal. Suitable for some applications which requires to keep 360° unrestricted, continuous or intermittent rotating and transmit mass data/signal from static side to rotation side, which can improve mechanical performance, simplify system operation and avoiding damages to fiber.

Part No. Description

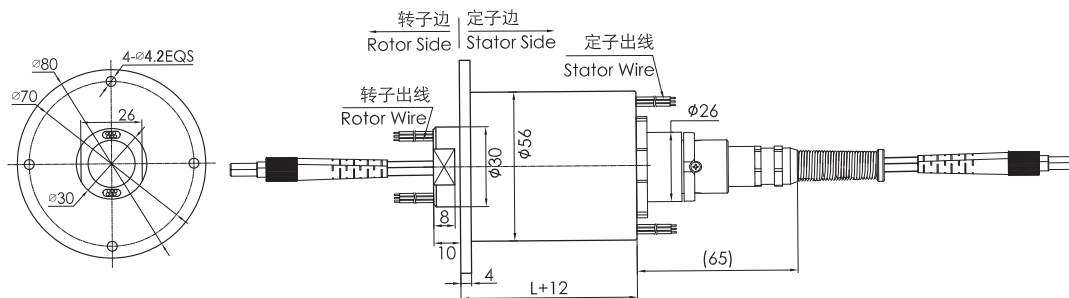
FO209	Power circuits no.	Signal circuits no.	Fiber type	Connector type	wavelength
2 channel Fiber-Electric slip ring Fiber Optic rotary joint					
Example : 0610:06 means 6 circuits, 10 means 10A per circuit					
Example : 06S:06 means 6 circuits, S means signal					
					Wavelength : 01:1310/1550 (Single mode) 02:850/1310 (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
					Fiber type code : 01:9/125um(Single mode) 02:50/125um(multi mode) 03:62.5/125um(multi mode)

Examples

FO209-06S-01-FC-01: FO209 means 2 Channels Fiber Optic rotary joint, 06S means can be combined to transmit 6 circuits signal, the first 01 means Fiber type 9/125um(single mode), FC means FC connector, fiber interface PC, the second 01 means wavelength :1310/1550;

FO209-1210-12S-03-LC/APC-02: FO209 means single channel Fiber-Electric rotary joint, 1210 means 12 circuits 10A, 12S means can be combined to transmit 12 circuits signal, 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.



Model List

Model	Fiber Channel no.	10A	Signal/5A	Length L(mm)
FO209-02S	2	0	2	34
FO209-0210	2	2	0	34
FO209-03S	2	0	3	34
FO209-0310	2	3	0	34
FO209-06S	2	0	6	34
FO209-0210-04S	2	2	4	34
FO209-0410-02S	2	4	2	34
FO209-0610	2	6	0	34
FO209-12S	2	0	12	52
FO209-0210-10S	2	2	10	52
FO209-0310-09S	2	3	9	52
FO209-0610-06S	2	6	6	52

Model	Fiber Channel no.	10A	Signal/5A	Length L(mm)
FO209-0810-04S	2	8	4	52
FO209-1010-02S	2	10	2	52
FO209-1210	2	12	0	52
FO209-18S	2	0	18	68.5
FO209-0210-16S	2	2	16	68.5
FO209-0610-12S	2	6	12	68.5
FO209-0810-10S	2	8	10	68.5
FO209-1010-08S	2	10	8	68.5
FO209-1210-06S	2	12	6	68.5
FO209-1610-02S	2	16	2	68.5
FO209-24S	2	0	24	68.5
FO209-0410-20S	2	4	20	85.5
FO209-0610-18S	2	6	18	85.5

Technical Specification of the slip ring

item	type	Single mode (SM)	multi mode (MM)
Bandwidth(nm)		± 50	
Max insertion Loss, 23℃(dB)		4	3.5
Insertion loss fluctuation(dB)		≤2	≤1
Return loss(dB)		≥50(APC)	≥40(PC)
max power(W)		0.5	
Storage temperature(℃)		-50~85	

spec	data	
	power	signal
voltage range	0~440VAC/VDC	0~440VAC/VDC
insulation resistance	≥ 1000mΩ/500VDC	≥ 1000mΩ/500VDC
lead wire spec.	AWG17# Silver-plated teflon	AWG22# Silver-plated teflon
lead wire length	standard 300mm (can be customized)	
Dielectric Strength	500VAC@50Hz, 60s	
Electrical noise	<0.01Ω	

Mechanical Data		
spec	data	
working life	8000 millions for ref(depends on working conditions)	
Rotating speed	250RPM	
Work Temperature	-20℃~60℃	
work humidity	0~85% RH	
contact material	precious metal	
housing material	aluminum alloy	
torque	0.1N.m;+0.03N.m/6 circuits	
IP grade	IP51	

Color Code of Lead Wire

ring #	1	2	3	4	5	6	7	8	9	10	11	12
color	BLK	BRN	RED	ORG	YEL	GRN	BLU	PUR	GRY	WHT	PINK	LGT BLU
ring#	13	14	15	16	17	18	19	20	21	22	23	24
color	WHT/BLK	WHT/BRN	WHT/RED	WHT/ORG	WHT/YEL	WHT/GRN	WHT/BLU	WHT/PUR	WHT/GRY	BLK/RED	BLK/BRN	Transparent

Remark: "1" : the first wire from rotor side , FO209-06S wire color sequence: BLK/BRN/RED/ORG/YEL/GRN , 24 color wires as one group , if more than 24wires, repeat as sequence , use number tube to tell group 1#, 2#....