

PSR-HD7-12, PSR-HD3-24是标准的帽式和光纤组合产品, 电滑环接触材料使用金。彩色耐高温导线简化电气连接。

PSR-HD7-12, PSR-HD3-24导电环采用90度V型槽设计, 低力矩, 低损耗, 低电气噪音, 领先同类滑环。

PSR-HD包含PSR-HD7-12, PSR-HD3-24两款导电滑环基本型号, 适用于HDMI格式的信号传输, 提供12路, 24路传输电路, 2A/路传输电源及信号, 1路光纤供传输高速数字信号.; 并有多款外型样式可共选择, 或可根据客户需求定制外型;

PSR-HD7-12, PSR-HD3-24 slip ring capsule is a standard, off-the-shelf series product, that uses gold contacts at the rotary interface. Color-coded lead wires are used on both the stator and rotor for simplified electrical connections.

Using a 90°V-groove ring design for each ring, the PSR-HD7-12, PSR-HD3-24 provides smoother running, lower torque low contact wear rates than competitive slip ring. PSR-HD7-12, PSR-HD3-24 provides 12,24circuit, 2A/circuit for power or signal, and 1 way FORJ for high speed data configurations.

FS系列编码简示

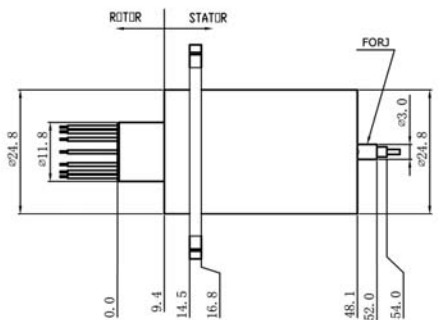
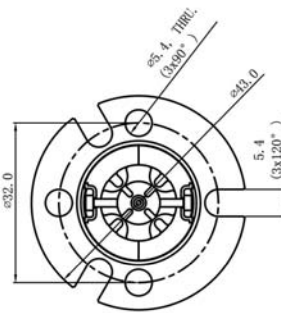
PSR - HD 3/7 - A

产品代码
Product Code

系列代码
Model Code

通路数 Circuit
12、24……
可选择通路数
可定制任意通路数

FORJ Type
光纤滑环型号

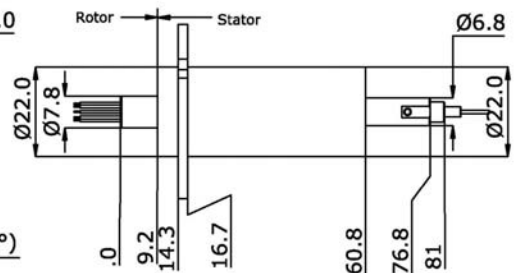
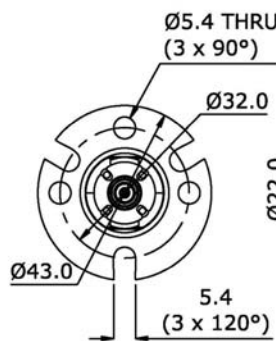


基本型号及尺寸 Basic Model and Size

基本型号 Model No.	通路数 Circuits	长度L Length "L"
PSR-HD7-12	12	38.7mm

基本型号及尺寸 Basic Model and Size

基本型号 Model No.	通路数 Circuits	长度L Length "L"
PSR-HD3-24	24	51.6mm



○ 特性 Feature

紧凑化设计, 小体积, 满足苛刻空间需求
Compact miniature design, small size fit for harsh space

模块化设计, 满足更高电流, 转速, 外形等需求
Module design; Meet the most of requirement

电滑环和光纤组合
Combine slip ring + FORJ

支持传输电源和数据信号及高速数字信号混合传输
Can combine signal and power in same slip ring

○ 典型应用 Typical Application

高清CCTV监控系统
HP CCTV Monitoring System;
电气测试设备
Electrical test equipment;
医疗设备
Medical equipment
机器人
Robotics;

○ 材料及配件 Material and Parts

壳体材料 House	铝合金 Al Alloy
接触材料 Contact material	贵金属: 金-金 Precious Metal: Gold-Gold
导线 Lead Wire	12色AWG #28 Teflon高温导线 12color #28AWG Teflon wire
轴承 Bearing	精密滚珠轴承 Precision ball bearings

○ 机械性能 Mechanical Spec

转速 Speed	300转/分钟 300Rpm
扭矩 Torque	0.01 N.M 0.01 N.M
防护等级 Seal class	Ip54 Ip54

○ 环境 Environment

工作温度 Operation temp.	-40 °C ~ +80 °C -40 °C ~ +80 °C
机械振动 Mechanical vibration	MIL-SID-810E MIL-SID-810E
相对湿度 Relative humidity	60% 60%

○ 电气性能 Electrical Spec

额定电压 Rating voltage	240VAC 240VAC
额定电流 Rating current	2A/路, 并联支持5A, 10A电源传输(线路并联) 2A per circuits, Transfers 5A and 10A power by combined with 2A rings
绝缘电阻 Insulation resistance	1000MΩ@500VDC 1000MΩ@500VDC
耐压 Dielectric strength	600VDC@50Hz 600VDC@50Hz
电气噪音 Electrical noise	70mΩ@6VDC, 50mA, 5Rpm 70mΩ@6VDC, 50mA, 5Rpm

○ 光电滑环性能规格 Specification for FORJ

波长范围	Wavelength range	650-1650 nm
插入损耗	Insertion loss	<2dB (typical: <0.5 dB)
回波损耗	Return loss	>40 dB (typical: 45 dB, 23 C), >50 dB (MJXA)
最大转速	Maximum speed	2000 rpm
压力补偿	Pressure compensation	1,000 psi (model RPC for higher pressure)
拉拔强度	Pulling strength	10 N (900 um buffer)
预计寿命	Estimated life cycle	200-400 million revolutions
光波能量	Optical power handlin	23 dBm
工作温度	Working temperature	-40 to 80 °C
储存温度	Storage temperature	-50 to 85 °C
光纤类型	Fiber types	Single or multimode w/3 mm jacke
接头类型	Connector types	FC, SC, ST, SMA, or LC (and APC finishes)

○ Lead Wire Color Codes

Ring#	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12
Color	BLK	RED	GRN	ORN	BLU	WHT	PPL	GRY	YEL	TAN	PNK	TPT
Ring#	#13	#14	#15	#16	#17	#18	#19	#20	#21	#22	#23	#24
Code	LT	DK	DK	T-	T-	M-	T-	DK	T-	DK	LT	T-
	GRN	RED	GRN	ORG	BLU	WHT	PPL	GRY	YEL	ORG	BLU	GRN