

SDI高清飞机吊舱滑环是根据客户需求专门研发设计的一款多通路(1-64)飞机吊舱专用滑环,可传输电源和信号,并组合SDI视频信号;信号频率可从DC-3G;具有体积小,重量轻,低扭矩,高可靠性等特点;适合传输电源、控制信号、通讯信号、普通视频以及高清视频等信号;可根据客户需求定制外型;

PSR-SM导电环接触材料使用贵金属,紧凑化设计,低力矩,低损耗,低电气噪音,彩色耐高温导线简化电气连接,领先同类滑环。

PSR-SD slip ring is a standard capsule, 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-SD provides smoother running, lower torque low contact wear rates than competitive slip ring. provides 12,16,24electronic circuit+1 SDI signal, 2A/circuit for power or signal, and 1 channel SDI Rotary Joint for high speed data SDI vedio signal configurations

SDI系列编码简示

PSR - SM64 - SDI

产品代码
Product Code

系列代码
Model Code

1通路高清视频

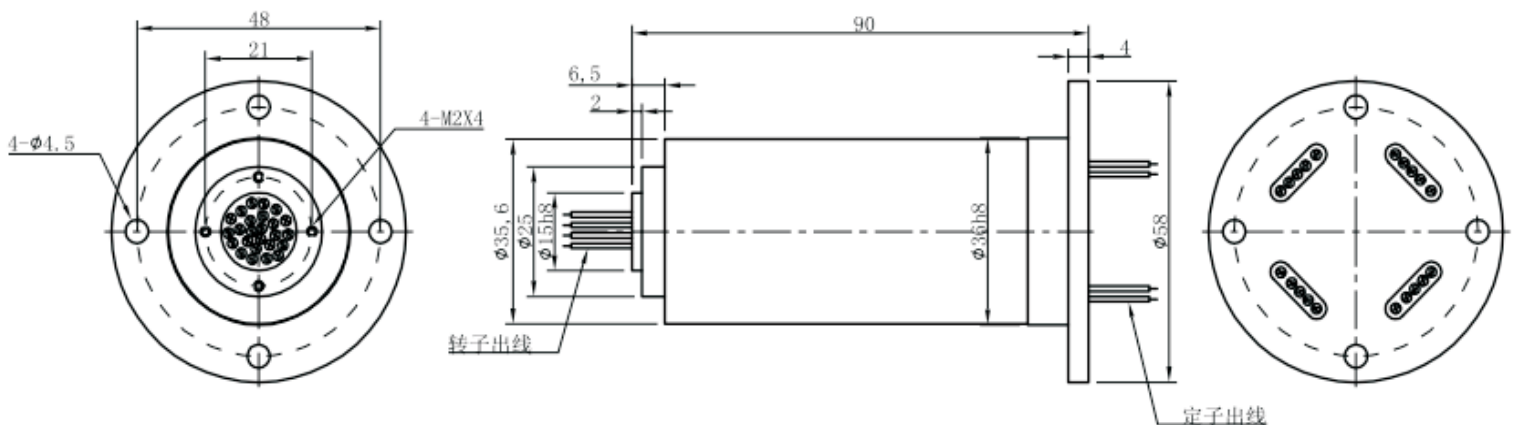
通路数 Ways

6、12、18...、64

可选择通路数
Any way is optional

基本型号及尺寸 Basic Model and Size

主体直径 Outside dia	35.6mm	
法兰直径 Flange dia.	58mm	
基本型号 Model NO	通路数 Circuits	长度L Length "L"
PSR-SDI-64	64	90mm



◎ 电气性能 Electrical Spec

额定电压	24VDC
Rating voltage	240VAC
额定电流	2A/路
Rating current	2A per circuits, Transfers 5A and 10A power by combined with 2A rings
绝缘电阻	250MΩ@250VDC
Insulation resistance	1000MΩ@500VDC
耐压	380VDC@50Hz
Dielectric strength	600VDC@50Hz
电气噪音	不大于10mΩ
Electrical noise	70mΩ@6VDC, 50mA, 5Rpm

◎ 特性 Feature

- 紧凑化设计, 小体积, 重量轻, 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
- 低扭矩, 多通路, 高可靠性;
 Combine slip ring + RF Joint
- 支持传输电源, 信号, 普通视频, RS422, SDI高清视频信号,
 Can combine high speed data HD video signal and power in same slip ring

◎ 典型应用 Typical Application

- 高清CCTV监控系统/高清云台
 CCTV Monitoring System;
- 电气测试设备
 Electrical test equipment;
- 医疗设备
 Medical equipment
- 机器人
 Robotics;
- 飞机吊舱

◎ 材料及配件 Material and Parts

壳体材料 House	铝合金 Engineer Plastics
接触材料 Contact material	贵金属 Precious Metal: Gold-Gold
导线 Lead Wire	AFP-520-2X0 双绞线 12color #28AWG Teflon wire
轴承 Bearing	精密滚珠轴承 Precision ball bearings

◎ 机械性能 Mechanical Spec

转速	200转/分钟
Speed	300Rpm
扭矩	<0.04 N.M
Torque	0.01 N.M
防护等级	Ip54
Seal class	Ip54

◎ 环境 Environment

工作温度	-55℃ ~ +80℃
Operation temp.	-55℃ ~ +80℃
机械振动	MIL-SID-810E
Mechanical vibration	MIL-SID-810E
相对湿度	95 3% (30℃+5℃)
Relative humidity	

专业 技术 可靠

◎ SDI旋转接头性能规格

Specification for RF Rotory Joint

频率	Frequency rate	DC-2.3GHz
插入损耗	Insertion loss	0.65 dB /1GHz Max
插入损耗起伏	Insertion loss typica	+/-0.05dB
回波损耗	Return loss	-18 dB / 1GHz Max;
输入输出	In put out put	RG-179/U
最大转速	Maximum speed.	50 rpm
电压驻波比	voltage standing wave ratio	VSWR≤1.3
电压驻波比起伏	voltage standing wave ratio typical	+/-0.05
预计寿命	Estimated life cycle	200million revolutions
工作温度	Working temperature	-55 to 80 C
储存温度	Storage temperature	-55 to 80 C
接头类型	Connector types	BNC / F
阻抗	Impedance	75 ohms
额定电流	Rating Current	DC 1A Max

◎ 环道分布

型号	通路数	信号种类				
		电源	普通视频	信号	传输RS422	传输SDI视频
PSR-SM64-SDI	64	20路2A/路	4路1A/路	26路1A/路	12路1A/路	1路1A/路
PSR-SM24-SDI	24	10路2A/路	2路1A/路	7路2A/路	4路1A/路	1路1A/路
PSR-SM48-SDI	48	20路8A/路	4路1A/路	14路1A/路	9路1A/路	1路1A/路
PSR-SM-36-2SDI	36	12路6A/路	4路1A/路	9路1A/路	10路1A/路	1路1A/路