



中国精密导电滑环领导品牌

The Leading Slip Ring Manufacturer in China



Professional Supplier of Rotaty Transmission Solution

旋转传输解决方案供应商

工业滑环分册

Industry Slip Ring Brochure

杭州全盛机电科技有限公司

Hangzhou Prosper Mechanical & Electrical Technology Co., Ltd

企业简介

BRIEF INTRODUCTION

杭州全盛机电科技有限公司成立于2003年，是专业从事精密导电滑环及控制杆研发、生产、销售于一体的技术型生产企业。现拥有五十多项发明和实用新型专利，2013年被评为国家高新技术企业。公司位于杭州经济技术开发区，场地面积15000余平方米，员工500余人。具有雄厚的研发实力、一流的生产设备、高科技的加工工艺和完善的质量管理体系，与国内著名的科研院所有着长期而广泛的合作，是中国精密导电滑环行业的领导者。

公司生产的滑环广泛应用于安防、自动化设备、机器人、医疗设备、包装机械、风力发电、雷达、航空及航天等民用和军用领域。致力于为客户提供完善的360度无限制旋转传输解决方案及高性价比产品。不仅可以提供通用导电滑环，还可以定制多通道、大电流、高电压、高转速、高频率以及集电、气液、光纤通信于一体的复杂组合体滑环。

公司已通过ISO9001：2015国际质量管理体系认证及ISO14001：2015环境管理体系认证，产品已通过欧盟CE认证、RoHS认证、国际MSDS认证。市场覆盖全国三十来个省（自治区），并在国外设有十多个销售机构，产品出口世界50多个国家，为德国博世、德国西门子、瑞士ABB、法国施耐德、日本松下、中国航天、中国电子、中科院、海康威视、浙江大华、上海电气和东方电气等世界知名公司和科研院所提供产品和技术服务，并为世界知名厂家提供OEM和ODM。

全盛机电秉承“诚信、协作、务实、创新”的企业精神，以“立足国内，放眼世界，打造世界知名品牌”为企业愿景，矢志成为受人尊敬的、全球卓著的专业公司和滑环行业的领跑者。



Hangzhou Prosper Mechanical & Electrical Technology Co., Ltd (HZ Prosper) is the professional RD & manufacture of precision slip rings and joysticks in China, which was established in the year of 2003. Now we have more than 50 patents for technology, and our company was awarded the national high-tech enterprises in the year of 2013. Our company is located in Hangzhou Economic & Development Area, which covered 15000m² plant areas and more than 500 employees. HZ Prosper is the slip ring industry leading company in China, which have established extensive and long-term cooperation with many domestic research institutes and owned a skilled management team, advanced technology, first class production and inspection equipments, as well as a strict quality control system.

Our slip rings are widely used in civil and military fields range from CCTV security, industrial automation, robot, medical equipments, packaging machinery, wind power, radar, aviation etc, HZ Prosper always determined supply solutions of 360° unlimited rotary transmission and cost-effective products to customers. We offer standard slip rings, and also customized solutions, such as multichannel, big current, high voltage, high frequency and combine Electricity, hydraulic, Fiber optic to one hybrid slip rings.

Hangzhou Prosper has obtained certificates of ISO9001: 2015 and ISO14001: 2015, our products conformity with CE, ROHS, MSDS.. Our market covers more than thirty provinces in China domestic, and we also have many sales distributors abroad in more than 50 countries. We offer products and technology service to many well-known companies, such as Bosch, Siemens, ABB, Schneider, Panasonic, CASC, Chinese Academy of Sciences, Hikvision, Dahua etc. We also provide both OEM and ODM services for world famous brands and customers.

The company spirit of Prosper is Integrity, collaboration, pragmatism, innovation, and the vision is based on home market, looking for world popularity, to build a world-renowned brand.



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研发检测 RD & Testing

专业制造，十五年来实践探索，几十道工序的现场经验，日积月累的创新……处处凸显全盛机电科技的专业境界。

全盛建立了实力雄厚的产品研发中心，配置了现代化的软、硬件，拥有专业的科研设计队伍，每年向市场投入大量品质卓越的新产品。全盛实施不断创新，持续改进战略，全力推行国际ISO9001:2015质量管理体系，选料严格，做工精细，是引领行业发展的风向标。

Prosper has more than 15 years rich experiences of slip rings research and development, production, testing and inspection in China , each process are most professional

Prosper set up a professional research center and lab, it equipped with advanced professional hard ware devices and soft ware. We also owned a rich experience and professional research team and launched many new slip rings to the market in different application each year.

Prosper passed ISO9001:2015 Quality control system; we have a very strict material quality control system and also workmanship control in each process. To keep innovation and keeping improvements is our strategy of the quality.



风电滑环检测系统
Wind power slip ring test system



恒温恒湿实验箱
Environment condition tank



盐雾试验机
Salty atmosphere tester



误码率测试仪
Error rate tester



网络分析仪
Network analyzer



镀层膜厚仪
Coating thickness tester



千兆网测试仪
Gigabit Ethernet tester



光谱仪
Spectrograph



信号发送器
Signal transmitter

PROSPER



SRM微型滑环

SRM Miniature Slip Ring

特点 Features

■ 完全满足360度无限制旋转的图像、视频、高清信号，控制等各种功率混合传输

Continuous transmission of image, video, HD signal, control under 360° freely rotation.

■ 低磨损、免维护、寿命长

Low wear, maintenance-free, long lifetime

■ 低扭矩、低损耗、低电气噪声

Low torque, smooth rotation

■ 动态电阻变化值极低

Electrical Noise≤0.01 Ω

■ 体积小，结构紧凑

Compact construction

可选项 Options

■ 路数 Number of Circuits

■ 外壳材料 Housing material

■ 更高转数 Higher operating speed

■ 导线长度 Cable length

■ 端子接插件 Connectors

■ 专用导线 Special cables

■ 工作温度 Operating temperature

典型应用 Typical Applications

■ 各种高清、红外安防监控设备

All kind of HD and infrared control CCTV equipment for security

■ 各种惯性导航系统、军民警用飞行吊舱

All kind of inertial navigation system and military flight pods

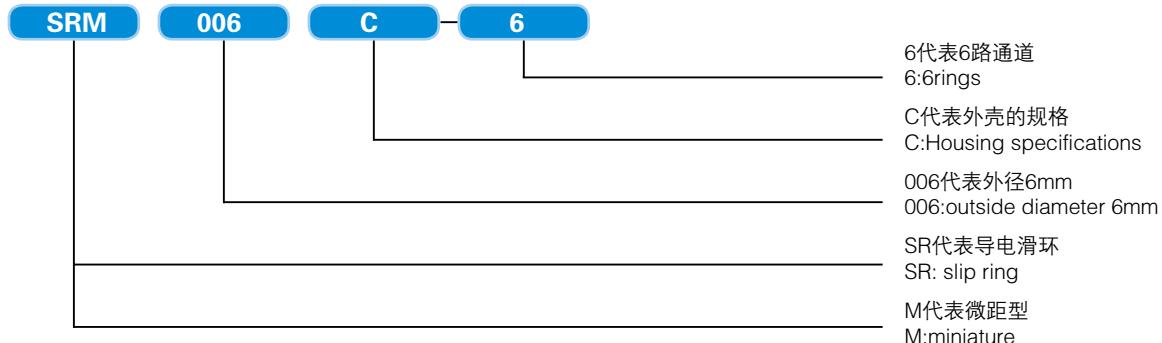
■ 各种医疗检测、仪器仪表设备

All kind of medical detecting equipment

■ 各种机器人的操作控制系统

All kind of robotic operation control system

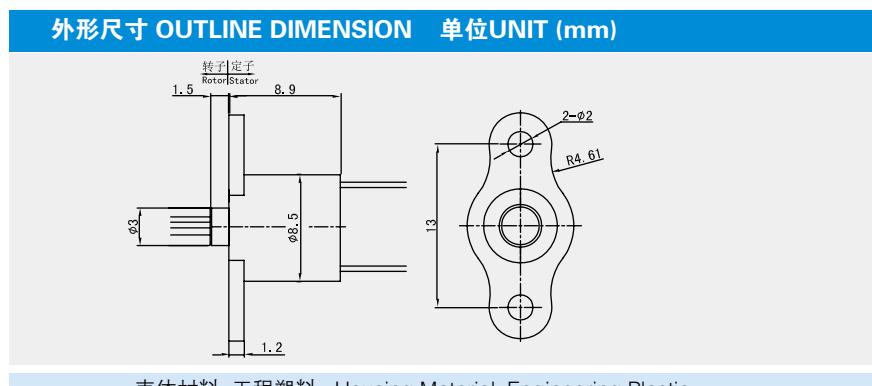
型号选用说明 Model explanation



型号 TYPE	外形尺寸 OUTLINE DIMENSION 单位(UNIT) mm
SRM006C-6	<p>壳体材料: 不锈钢 Housing Material: Stainless Steel</p>



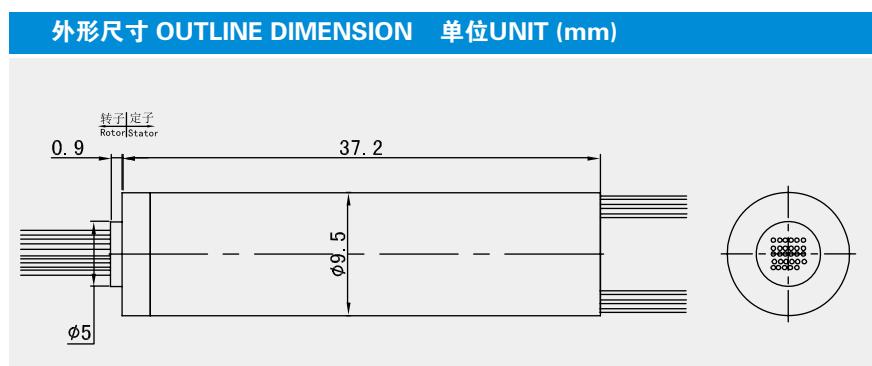
SRM008A-4



壳体材料: 工程塑料 Housing Material: Engineering Plastic



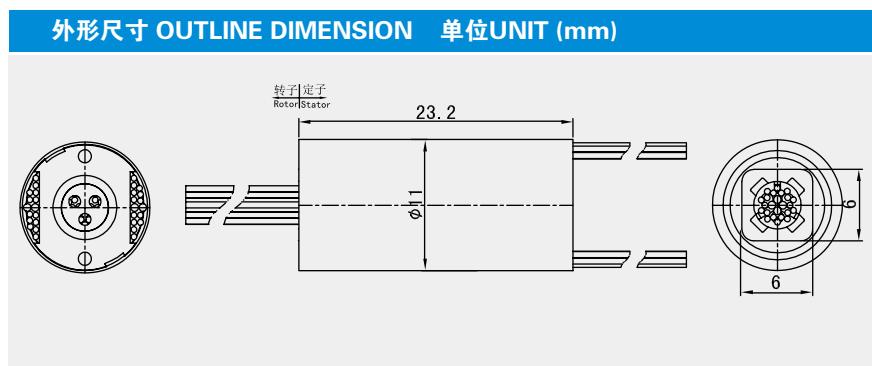
SRM009C-36



壳体材料: 不锈钢 Housing Material: Stainless Steel



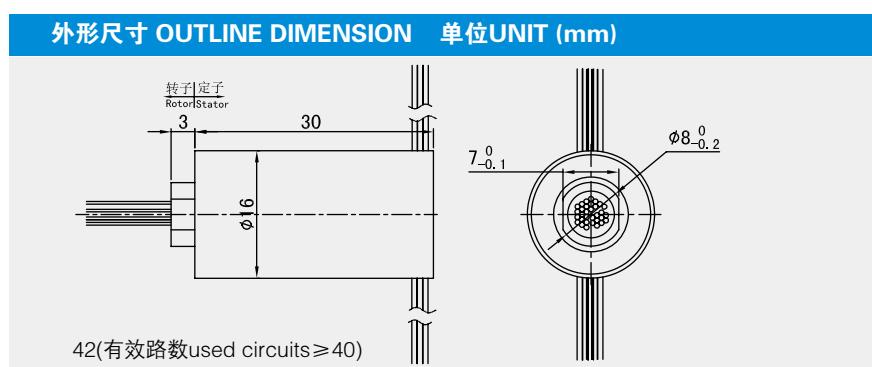
SRM011C-24



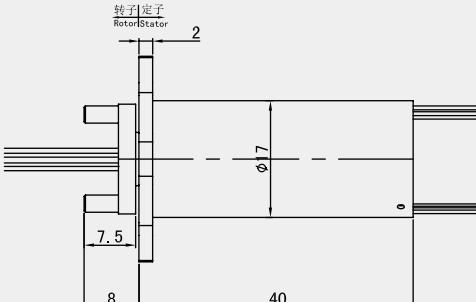
壳体材料: 不锈钢 Housing Material: Stainless Steel

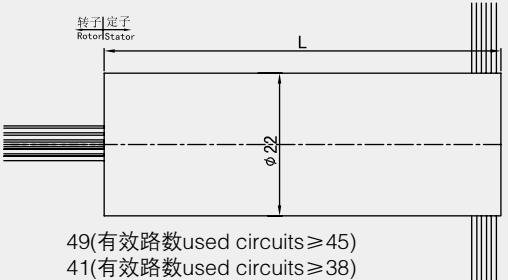


SRM016C-42



壳体材料: 铝合金 Housing Material: Aluminium Alloy

型号 TYPE	外形尺寸 OUTLINE DIMENSION 单位UNIT (mm)
SRM017-45	 <p>壳体材料: 铝合金 Housing Material: Aluminium Alloy</p>

型号 TYPE	外形尺寸 OUTLINE DIMENSION 单位UNIT (mm)
SRM022C	 <p>壳体材料: 铝合金 Housing Material: Aluminium Alloy</p>

电气技术指标 Electrical data

参数 Specification	数值 Values
额定电流 Rated Current	1A/路 1A/ring
额定电压 Rated Voltage	110VAC / VDC
导线规格 Lead Size	AWG32 镀银铁氟龙绝缘 AWG32, color coded, PTFE insulated, silver plated copper
导线长度 Lead Length	250mm或根据客户要求提供 250mm (or as request)
绝缘体强度 Dielectric Strength	300VAC@50Hz, 60S
绝缘电阻 Insulation Resistance	100mΩ/300VDC
动态电阻变化值 Electrical Noise	≤10mΩ

机械技术指标 Mechanical data

参数 Specification	数值 Values
额定转速 Rated Speed	0~60rpm
工作温度 Temperature Range	-20°C ~ +80°C
工作湿度 Operating Humidity	60%RH 或更高 60%RH or higher
接触材料 Contact Material	贵金属 Precious Metals

SRH微型过孔滑环

SRH Miniature Slip Ring

特点 Features

- 完全满足360度无限制旋转的动力、控制及数字信号混合传输
Continuous transmission of power and/or signal under 360° unrestrained rotation
- 采用先进的纤刷技术，免维护，无需润滑油
Applies advanced fiber brush technology, free of maintenance or lubricating oil
- 每路多点接触，低接触压力，低噪音和低接触磨损，超长的使用寿命
Multi contact points in each circuit, low contact pressure, low noise, low contact wear; extremely long life-time
- 标准化、模块化设计，产品规格齐全，并能为客户量身定制所需要的产品
Standardized & modularized design; customized solutions also available

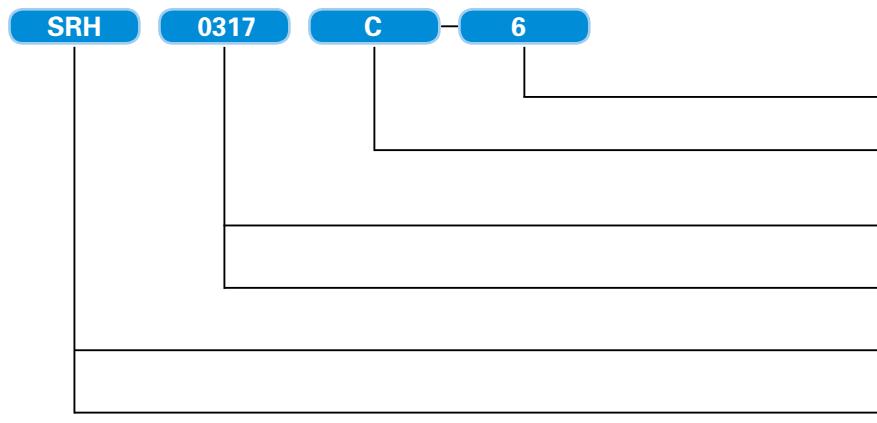
可选项 Options

- 额定电流、电压 Current / Voltage
- 额定转速 Rated Speed
- 工作温度 Operating temperature
- 路数 Number of circuits
- 外壳材料及颜色 Housing material and color
- 外型尺寸 Outline dimension
- 专用导线 Special lead wire
- 导线出口方向 Lead exit location
- 导线长度 Lead length
- 防护等级 IP class
- 端子类型 Terminal type

典型应用 Typical Application

- 工业机器 – 加工中心, 旋转工作台, 工业内窥镜
Industrial machinery – machining center, rotary index table
- 医用检测设备和工业仪器仪表
Heavy equipment turrets, cable reels, test equipments
- 紧急照明设备, 机器人
Emergency lighting, robotics
- 展览/显示设备、广告旋转台
Exhibit/display equipment, medical equipment
- 军民两用飞行吊舱、雷达天线设备
Flight pods, antenna equipment

型号选用说明 Model explanation



6代表6路通道
6:6rings
C代表外壳的规格
C:Housing specification
17代表外径17mm
17:outside diameter 17mm
03代表过孔内径3mm
03: through bore diameter 3mm
SR代表导电滑环
SR: slip ring
H代表过孔型
H:slip rings with a hole
(through bore)

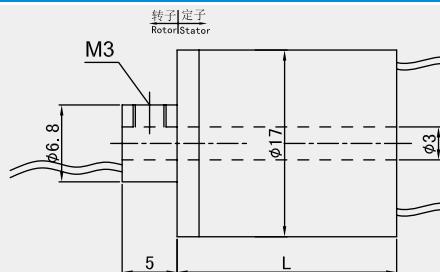
SRH0317C 系列 Series

型号 TYPE



SRH0317C

外形尺寸 OUTLINE DIMENSION 单位UNIT (mm)



MODEL	L(mm)
SRH0317C	13.3
SRH017C-6/8	20

壳体材料: 工程塑料 Engineering Plastics

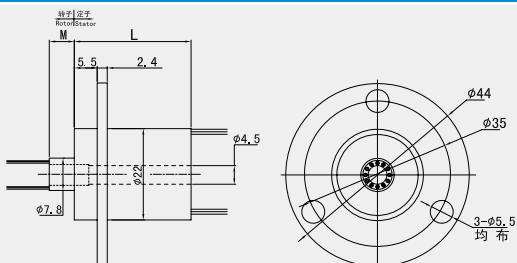
SRH0422 系列 Series

型号 TYPE



标准型 Standard Type SRH0422

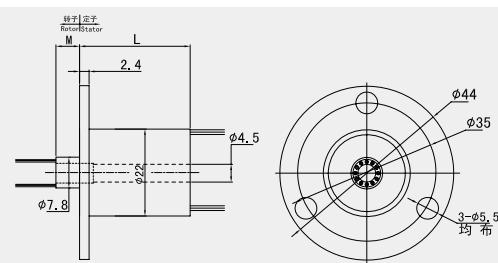
外形尺寸 OUTLINE DIMENSION 单位UNIT (mm)



MODEL	L(mm)	M(mm)
SRH0422-8	19.4	6
SRH0422-12	24.6	6
SRH0422-18	34	6.8
SRH0422-24	38.3	8.2



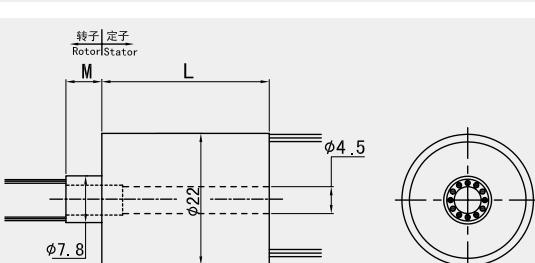
A型("A"Type) SRH0422A



MODEL	L(mm)	M(mm)
SRH0422A-8	19.4	6
SRH0422A-12	24.6	6
SRH0422A-18	34	6.8
SRH0422A-24	38.3	8.2



C型("C"Type) SRH0422C



MODEL	L(mm)	M(mm)
SRH0422C-8	19.4	6
SRH0422C-12	24.6	6
SRH0422C-18	34	6.8
SRH0422C-24	38.3	8.2

壳体材料: 工程塑料 Housing Material: Engineering Plastics

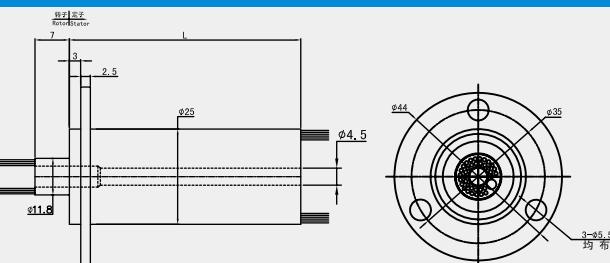
SRH0425 系列 Series

型号 TYPE



SRH0425

外形尺寸 OUTLINE DIMENSION 单位UNIT (mm)



MODEL	L(mm)
SRH0425-30	47.5
SRH0425-36	60

壳体材料: 铝合金 Housing Material: Aluminium Alloy

电气技术指标 Electrical data

参数 Specification	数值 Values
额定电流 Rated Current	2A/路 2A/ring
额定电压 Rated Voltage	240VAC / VDC
导线规格 Lead Size	AWG26 镀银铁氟龙绝缘 AWG26, color coded, FEP insulated, silver plated copper
导线长度 Lead Length	250mm或根据客户要求提供 250mm (or as request)
绝缘体强度 Dielectric Strength	500VAC@50Hz, 60S
绝缘电阻 Insulation Resistance	1000MΩ/500VDC
动态电阻变化值 Electrical Noise	≤10mΩ

机械技术指标 Mechanical data

参数 Specification	数值 Values
额定转速 Rated Speed	0~250rpm
工作温度 Temperature Range	-20℃ ~ +80℃
工作湿度 Operating Humidity	60%RH 或更高 60%RH or higher
接触材料 Contact Material	贵金属 Precious Metals

导线色码表 Lead Color Code

SRH0317C-2	1. 红RED	2. 绿 GRN				
SRH0317C-6	1. 红 RED	2. 绿 GRN	3. 黄 YEL	4. 紫 PUP	5. 灰 GRY	6. 黑 BLK
SRH0317C-8	1. 灰 GRY	2. 黑 BLK	3. 蓝 BLU	4. 深蓝 DBLU	5. 棕 BRN	6. 橙 ORN
	7. 白 WHT	8. 土黄 KHK				
SRH0422-8	1. 灰 GRY	2. 黑 BLK	3. 蓝 BLU	4. 深蓝 DBLU	5. 棕 BRN	6. 橙 ORN
	7. 白 WHT	8. 土黄 KHK				
SRH0422-12	1. 红RED	2. 绿 GRN	3. 黄 YEL	4. 紫 PUP	5. 灰 GRY	6. 黑 BLK
	7. 蓝 BLU	8. 深蓝 DBLU	9. 棕 BRN	10. 橙 ORN	11. 白 WHT	12. 土黄 KHK
SRH0422-18	1. 红RED	2. 绿 GRN	3. 黄 YEL	4. 紫 PUP	5. 灰 GRY	6. 黑 BLK
	7. 蓝 BLU	8. 深蓝 DBLU	9. 棕 BRN	10. 橙 ORN	11. 白 WHT	12. 土黄 KHK
	13. 白 - 红 WHT-RED	14. 白 - 黑 WHT-BLK	15. 白 - 蓝 WHT-BLU	16. 白 - 紫 WHT-PUP	17. 白 - 棕 WHT-BRN	18. 白 - 绿 WHT-GRN
SRH0422-24	1. 红RED	2. 绿 GRN	3. 黄 YEL	4. 紫 PUP	5. 灰 GRY	6. 黑 BLK
	7. 蓝 BLU	8. 深蓝 DBLU	9. 棕 BRN	10. 橙 ORN	11. 白 WHT	12. 土黄 KHK
	13. 白 - 红 WHT-RED	14. 白 - 黑 WHT-BLK	15. 白 - 蓝 WHT-BLU	16. 白 - 紫 WHT-PUP	17. 白 - 棕 WHT-BRN	18. 白 - 绿 WHT-GRN
	19. 白 - 橙 WHT-ORN	20. 白 - 黄 WHT-YEL	21. 白 - 灰 WHT-GRY	22. 黑 - 红 BLK-RED	23. 黑 - 蓝 BLK-BLU	24. 黄 - 绿 YEL-GRN
SRH0425-30	1/2. 红RED	3/4. 绿 GRN	5/6. 黄 YEL	7/8. 紫 PUP	9/10. 灰 GRY	11/12. 黑 BLK
	13/14. 蓝 BLU	15/16. 深蓝 DBLU	17/18. 棕 BRN	19/20. 橙 ORN	21/22. 白 WHT	23/24. 土黄 KHK
	25/26. 白 - 红 WHT-RED	27/28. 白 - 黑 WHT-BLK	29/30. 白 - 蓝 WHT-BLU			
SRH0425-36	1/2. 红RED	3/4. 绿 GRN	5/6. 黄 YEL	7/8. 紫 PUP	9/10. 灰 GRY	11/12. 黑 BLK
	13/14. 蓝 BLU	15/16. 深蓝 DBLU	17/18. 棕 BRN	19/20. 橙 ORN	21/22. 白 WHT	23/24. 土黄 KHK
	25/26. 白 - 红 WHT-RED	27/28. 白 - 黑 WHT-BLK	29/30. 白 - 蓝 WHT-BLU	31/32. 白 - 紫 WHT-PUP	33/34. 白 - 棕 WHT-BRN	35/36. 白 - 绿 WHT-GRN

SRC 直连型滑环

SRC Pin Connection Slip Ring

特点 Features

- 除具备常规帽型滑环特点外，还具有连接方便，载流能力更强等特点
Easy for electrical connection, carrying higher current
- 可替代传统式的水银滑环
Good replacements for mercury slip rings
- SRC 直连型滑环是精密的、高效的，为工业制造业设计的无水银滑环，完全满足欧盟环保要求。导电环采用贵金属镀敷处理，电刷采用贵金属合金丝，采用标准的扁平接头方便连接。

SRC Pin Connection Slip Ring are precision mercury-free slip rings which are designed specially for manufacturing industry. Applies gold plated rings and gold alloy brushes. Flat pins easy for electrical connection.

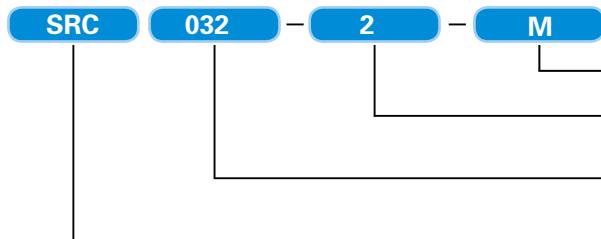
可选项 Options

- 外壳材料 Housing material
- 防护等级 IP class
- 更高转数 Higher operating speed
- 工作温度 Operating temperature

典型应用 Typical Applications

- 包装机械、印刷加热辊
Packaging machinery, heating roller of printing
- 流水线生产、工艺控制设备
Production line, industry process equipments

型号选用说明 Model explanation



M代表防护等级
M:IP Class

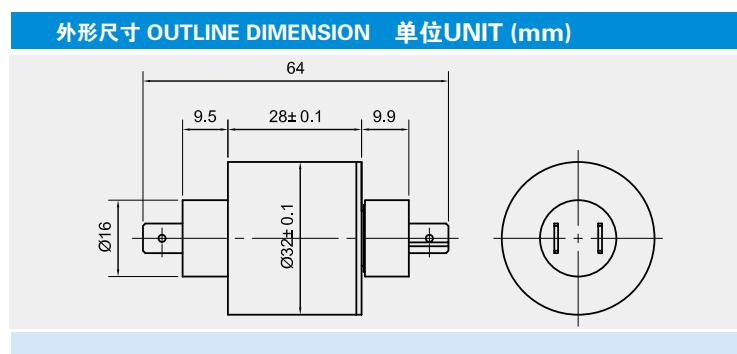
2代表2路通道
2:2 circuits

032代表外径32mm
032:outside diameter 32mm

SRC代表直连型导电滑环
SRC: Pin Connection slip ring

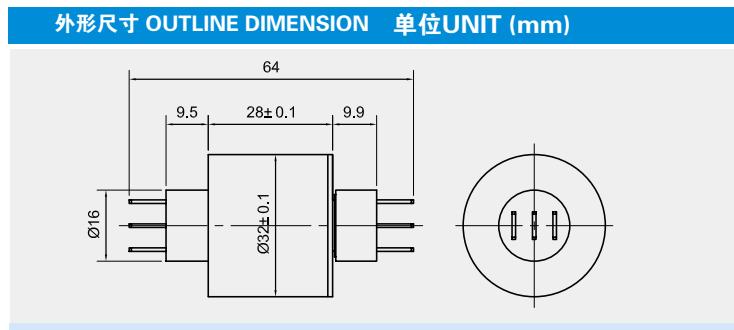


SRC032系列 SRC032 Series

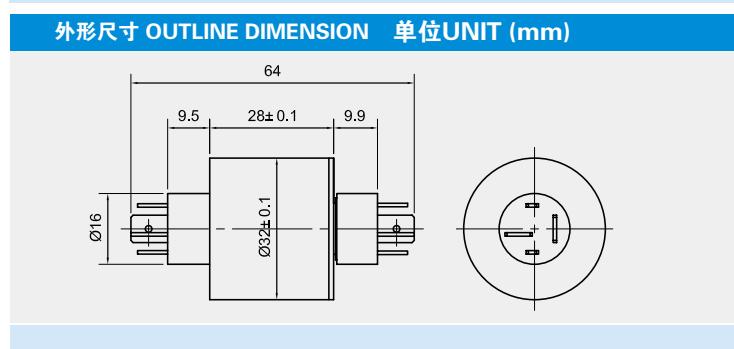




SRC032-3



SRC032-4



电气技术指标 Electrical data

额定电压 Rated Voltage	240VDC/240VAC
绝缘体强度 Dielectric Strength	500VAC@50Hz, 60s
绝缘电阻 Insulation Resistance	1000MΩ/500VDC
动态电阻变化值 Electrical Noise	≤10mΩ

机械技术指标 Mechanical data

额定转速 Rated Speed	0~400rpm
工作温度 Temperature Range	-20°C ~ +80°C
工作湿度 Operating Humidity	60%RH 或更高 60%RH or higher
接触材料 Contact Material	贵金属 Precious Metals
壳体材料 Housing Material	工程塑料 Engineering Plastics
防护等级 IP Class	IP51

规格表 Specification List

型号 Type	路数 No. of Circuits	额定电流 (Amps) Rated Current Amps				外形尺寸 Outline Dimension	
		2	5	15	20	外径×长度 OD×L	厚度×宽度 Pin Thickness × Width
SRC032-2	2	—	—	2	—	Φ32×28	0.8×6.3
SRC032-3	3	—	—	3	—	Φ32×28	0.8×6.3
SRC032-4	4	2	—	2	—	Φ32×28	0.8×6.3 0.8×2.8

SRC032系列（防水型）

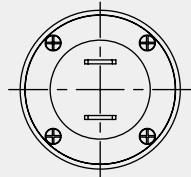
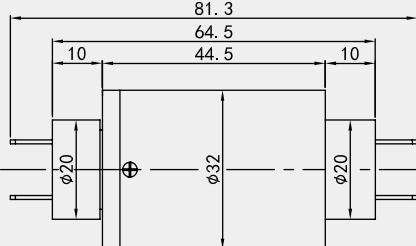
SRC032 Series (Waterproof)

型号 TYPE



SRC032-2M

外形尺寸 OUTLINE DIMENSION 单位UNIT (mm)

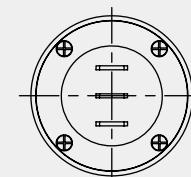
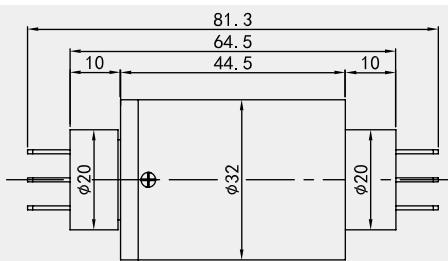


型号 TYPE



SRC032-3M

外形尺寸 OUTLINE DIMENSION 单位UNIT (mm)

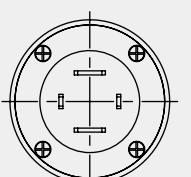
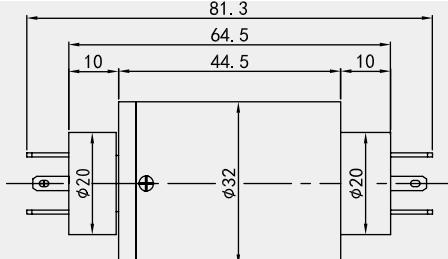


型号 TYPE



SRC032-4M

外形尺寸 OUTLINE DIMENSION 单位UNIT (mm)

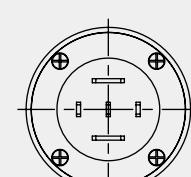
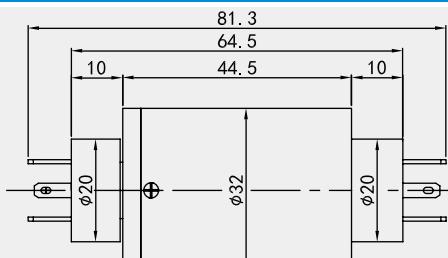


型号 TYPE



SRC032-5M

外形尺寸 OUTLINE DIMENSION 单位UNIT (mm)



电气技术指标 Electrical data

额定电压 Rated Voltage	240VDC/240VAC
绝缘体强度 Dielectric Strength	500VAC@50Hz, 60s
绝缘电阻 Insulation Resistance	1000MΩ/500VDC
动态电阻变化值 Electrical Noise	≤10mΩ

机械技术指标 Mechanical data

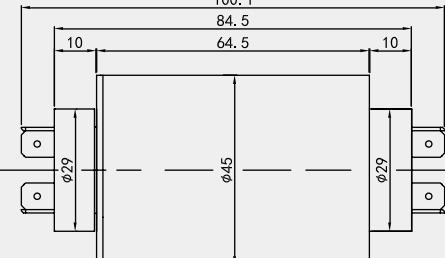
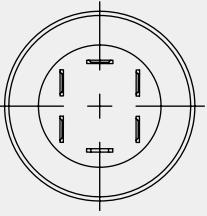
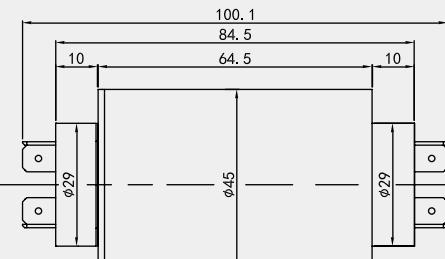
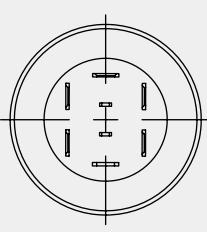
额定转速 Rated Speed	0~250rpm
工作温度 Temperature Range	-20°C ~ +80°C
工作湿度 Operating Humidity	60%RH 或更高 60%RH or higher
接触材料 Contact Material	贵金属 Precious Metals
壳体材料 Housing Material	铝合金 Aluminium Alloy
防护等级IP Class	IP65

规格表 Specification List

型号 Type	路数 No. of Circuits	额定电流 (Amps) Rated Current Amps				外形尺寸 Outline Dimension	
		2	5	15	20	外径×长度 OD × L	厚度×宽度 Pin Thickness × Width
SRC032-2M	2	-	-	2	-	Φ32×44.5	0.8×6.3
SRC032-3M	3	-	-	3	-	Φ32×44.5	0.8×6.3
SRC032-4M	4	2	-	2	-	Φ32×44.5	0.8×6.3 0.8×2.8
SRC032-5M	5	-	3		2	Φ32×44.5	0.8×6.3 0.8×2.8

SRC045系列（防水型）

SRC045 Series (Waterproof)

型号 TYPE	外形尺寸 OUTLINE DIMENSION 单位UNIT (mm)
 <p>SRC045-6</p>	 
 <p>SRC045-8</p>	 

规格表 Specification List

型号 Type	路数 No. of Circuits	额定电流 (Amps) Rated Current Amps		外形尺寸 Outline Dimension OD × L	镀金 扁平接头 Pin Thickness x Width
		5	20		
SRC045-6	6	—	6	Φ 45 × 64.5	0.8 × 6.3
SRC045-8	8	2	6	Φ 45 × 64.5	0.8 × 6.3 0.8 × 2.8

电气技术指标 Electrical data

额定电压 Rated Voltage	240VAC / VDC
绝缘体强度 Dielectric Strength	500VAC@50Hz, 60s
绝缘电阻 Insulation Resistance	1000MΩ/500VDC
动态电阻变化值 Electrical Noise	≤10mΩ

机械技术指标 Mechanical data

额定转速 Rated Speed	0~250rpm
工作温度 Temperature Range	-20°C ~ +80°C
工作湿度 Operating Humidity	60%RH 或更高 60%RH or higher
接触材料 Contact Material	贵金属 Precious Metals
壳体材料 Housing Material	工程塑料 Engineering Plastics

SRH 标准过孔型滑环

SRH Standard Through-Bore Slip Ring



特点 Features

- 完全满足360度无限制旋转的动力、控制及数字信号混合传输
Continuous transmission of power and/or signal under 360° unrestrained rotation
- 采用先进的纤刷技术，免维护，无需润滑油
Applies advanced fiber brush technology, free of maintenance or lubricating oil
- 每路多点接触，低接触压力，低噪音和低接触磨损，超长的使用寿命
Multi contact points in each circuit, low contact pressure, low noise, low contact wear; extremely long life-time
- 标准化、模块化设计，产品规格齐全，并能为客户量身定制所需要的产品
Standardized & modularized design; customized solutions also available

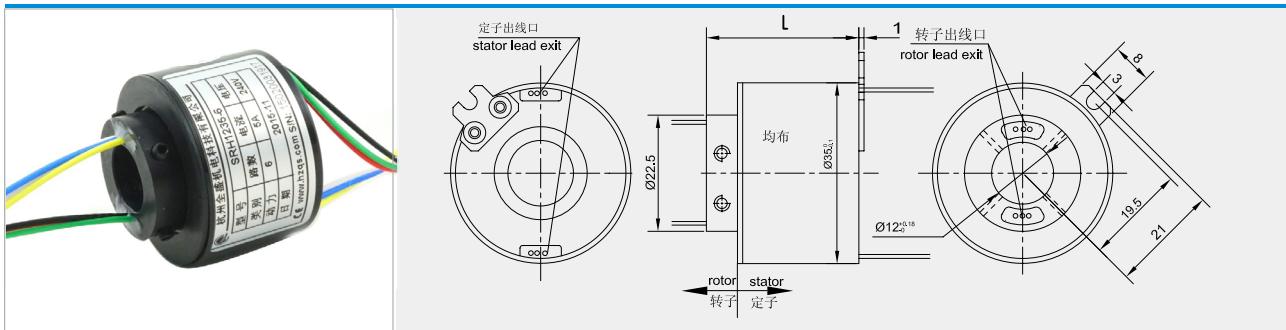
可选项 Options

- 额定电流、电压 Voltage/current
- 额定转速 Rated Speed
- 工作温度 Operating temperature
- 路数 Number of circuits
- 外壳材料及颜色 Housing material and color
- 外型尺寸 Outline dimension
- 专用导线 Special lead wire
- 导线出口方向 Lead exit location
- 导线长度 Lead length
- 防护等级 IP class
- 端子类型 Terminal type

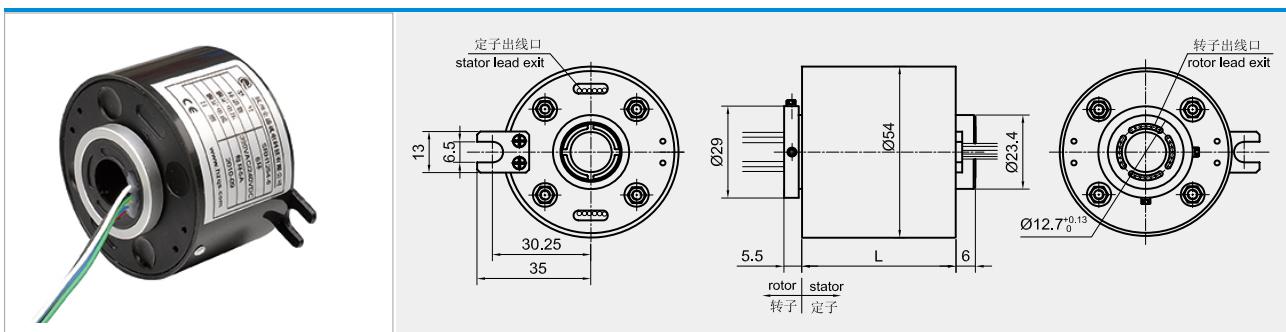
典型应用 Typical Application

- 工业机器 – 加工中心, 旋转工作台
Industrial machinery – machining center, rotary index table
- 重型设备塔台或电缆卷盘, 试验设备
Heavy equipment turrets, cable reels, test equipments
- 包装设备, 堆垛机, 磁性离合器, 工艺控制设备
Packaging machines, palletizing machines, magnetic clutch, process equipment
- 旋转传感器, 紧急照明设备, 机器人
Rotary sensors, emergency lighting, robotics
- 展览/显示设备、医疗设备
Exhibit/display equipment, medical equipment
- 酒店、宾馆旋转门控制系统
Control system of hotel revolving door

SRH1235 系列导电滑环 SRH1235 Series through-bore slip ring



SRH1254 系列导电滑环 SRH1254 Series through-bore slip ring



1、图中尺寸可能与实际尺寸有微小误差

1、The dimensions may have small error with actual products

2、转子导线有4个成90°的出口，定子导线有2个成180°的出口

2、4 lead exits equally distributed in rotor side; 2 lead exits equally distributed in stator side

型号选用说明

Model explanation

SRH	1235	-	12	12代表12路通道（每通道5A） 12: 12 circuits (5A/circuit)
			35	35代表外径35mm 35: outside diameter 35mm
			12	12代表过孔内径12mm 12: through bore diameter 12mm
			SR	SR代表导电滑环 SR: slip ring
			H	H代表过孔系列 H:slip rings with a hole (through bore)

型号 Type	长度 (L=mm)	路数 Circuits
SRH1235-6	29.5	6
SRH1235-12	40	12

型号 Type	长度 (L=mm)	路数 Circuits
SRH1254-6	33.4	6
SRH1254-12	47.3	12
SRH1254-18	61.3	18
SRH1254-24	75.2	24

电气技术指标 Electrical data

参数 Specification	数值 Values
额定电压 Rated Voltage	240VAC/VDC
额定电流 Rated Current	标准每路为5A 5A/ring
导线规格 Lead Size	AWG22镀银铁氟龙绝缘 AWG22 sliver plated, PTFE insulated
导线长度 Lead Length	标准500mm Standard 500mm
绝缘电阻 Insulation Resistance	≥500MΩ/500VDC
绝缘强度 Dielectric Strength	500VAC/50Hz,60s
动态电阻变化值 Electrical Noise	≤10mΩ

机械技术指标 Mechanical data

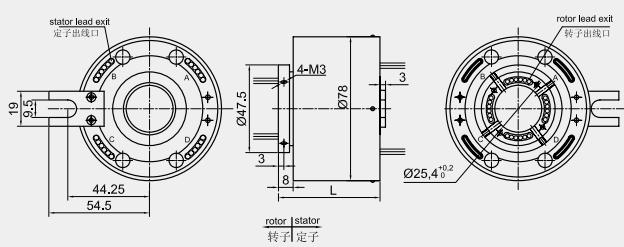
参数 Specification	数值 Values
额定转速 Rated Speed	0 ~ 400 rpm
工作温度 Working temperature	-20°C ~ +80°C
工作湿度 Humidity	60%RH或更高 60%RH or higher
接触材料 Contact Material	贵金属 Precious metal
壳体材料 Housing Material	工程塑料 Engineering plastic
力 矩 Torque	6路产品为0.1N·M,每增加6路加0.03N·M 0.1N·M for -6 version, 0.03N·M increased for every 6rings added
防护等级 Protection level	IP51

标准滑环导线色码表 Lead color code

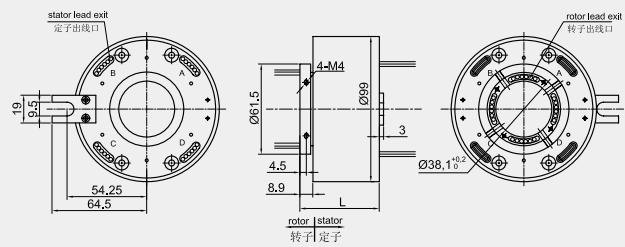
色码	红RED	黄YEL	黑BLK	蓝BLU	绿GRN	白WHT	紫PUP	灰GRY	棕BRN	橙ORN	深蓝DBLU	土黄KHK
6路	1	2	3	4	5	6	-	-	-	-	-	-
12路	1	2	3	4	5	6	7	8	9	10	11	12
18路	1 13	2 14	3 15	4 16	5 17	6 18	7	8	9	10	11	12
24路	1 13	2 14	3 15	4 16	5 17	6 18	7 19	8 20	9 21	10 22	11 23	12 24

过孔导电滑环系列 (SRH2578、3899、50120、60135、70155、80180、90190、100203) Through-bore slip ring Series

外形尺寸 OUTLINE DIMENSION 单位UNIT (mm)

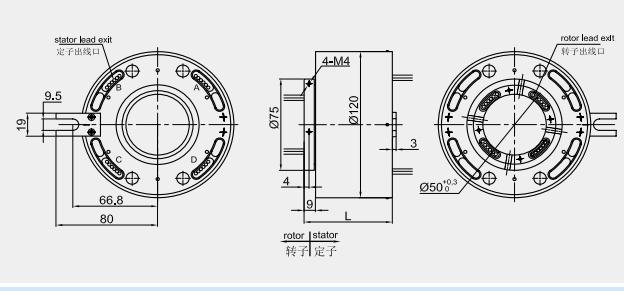


SRH2578

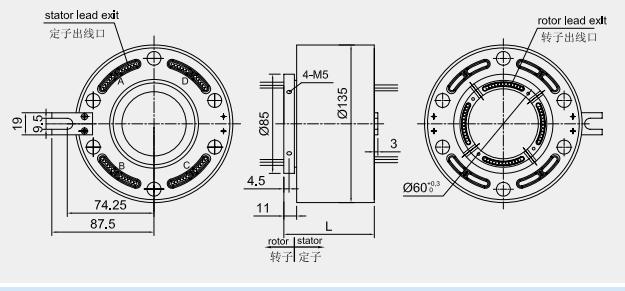


SRH3899

外形尺寸 OUTLINE DIMENSION 单位UNIT (mm)

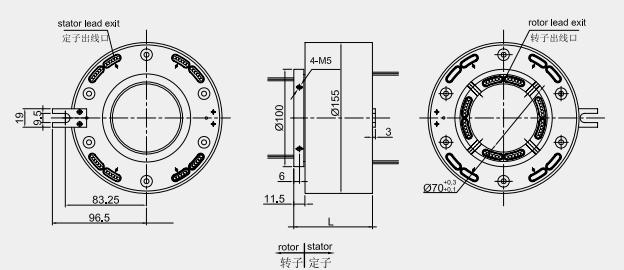


SRH50120

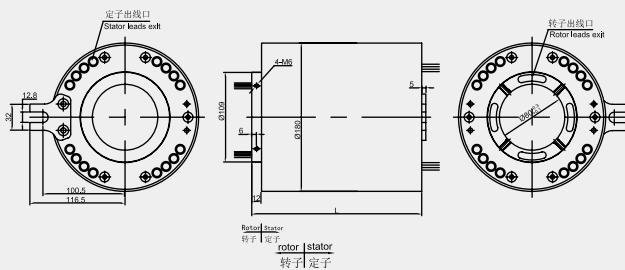


SRH60135

外形尺寸 OUTLINE DIMENSION 单位UNIT (mm)

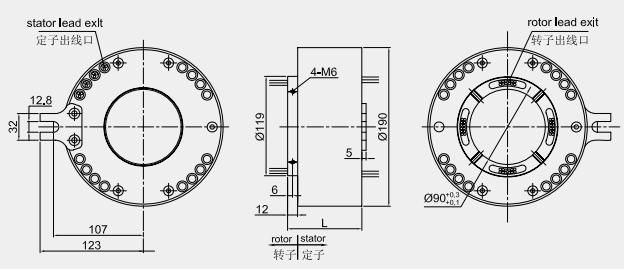


SRH70155

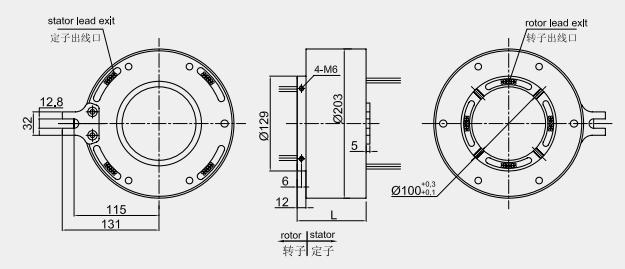


SRH80180

外形尺寸 OUTLINE DIMENSION 单位UNIT (mm)



SRH90190



SRH100203

1、图中尺寸可能与实际尺寸有微小误差

The dimensions may have small error with actual products

2、转子导线有4个成90°的出口

4 lead exits equally distributed in rotor side

SRH2578 Series

型号 Type	长度 (L=mm)	额定电流 Rated Current		总路数 Total No. of Circuits
		功率P(10A、15A)	信号S(2A)	
SRH2578-6P	55	6	—	6
SRH2578-12S	55	—	12	12
SRH2578-12P	79	12	—	12
SRH2578-6P/12S	79	6	12	18
SRH2578-24S	79	—	24	24
SRH2578-18P	103	18	—	18
SRH2578-12P/12S	103	12	12	24
SRH2578-6P/24S	103	6	24	30
SRH2578-36S	103	—	36	36
SRH2578-24P	127	24	—	24
SRH2578-18P/12S	127	18	12	30
SRH2578-12P/24S	127	12	24	36
SRH2578-6P/36S	127	6	36	42
SRH2578-48S	127	—	48	48

可按客户需求定制到96通路

Max 96 circuits available on request

SRH3899 Series

型号 Type	长度 (L=mm)	额定电流 Rated Current		总路数 Total No. of Circuits
		功率P(10A、15A)	信号S(2A)	
SRH3899-6P	54.1	6	—	6
SRH3899-12S	54.1	—	12	12
SRH3899-12P	78.1	12	—	12
SRH3899-6P/12S	78.1	6	12	18
SRH3899-24S	78.1	—	24	24
SRH3899-18P	102.1	18	—	18
SRH3899-12P/12S	102.1	12	12	24
SRH3899-6P/24S	102.1	6	24	30
SRH3899-36S	102.1	—	36	36
SRH3899-24P	126.1	24	—	24
SRH3899-18P/12S	126.1	18	12	30
SRH3899-12P/24S	126.1	12	24	36
SRH3899-6P/36S	126.1	6	36	42
SRH3899-48S	126.1	—	48	48

可按客户需求定制到96通路

Max 96 circuits available on request

SRH50120 Series

型号 Type	长度 (L=mm)	额定电流 Rated Current		总路数 Total No.of Circuits
		功率P(10A、15A或20A)	信号S(5A)	
SRH50120-6P	69.5	6	—	6
SRH50120-12S	69.5	—	12	12
SRH50120-12P	99.5	12	—	12
SRH50120-6P/12S	99.5	6	12	18
SRH50120-24S	99.5	—	24	24
SRH50120-18P	129.5	18	—	18
SRH50120-12P/12S	129.5	12	12	24
SRH50120-6P/24S	129.5	6	24	30
SRH50120-36S	129.5	—	36	36
SRH50120-24P	159.5	24	—	24
SRH50120-18P/12S	159.5	18	12	30
SRH50120-12P/24S	159.5	12	24	36
SRH50120-6P/36S	159.5	6	36	42
SRH50120-48S	159.5	—	48	48
SRH50120-30P	189.5	30	—	30
SRH50120-24P/12S	189.5	24	12	36
SRH50120-18P/24S	189.5	18	24	42
SRH50120-12P/36S	189.5	12	36	48
SRH50120-6P/48S	189.5	6	48	54
SRH50120-60S	189.5	—	60	60
SRH50120-36P	219.5	36	—	36
SRH50120-30P/12S	219.5	30	12	42
SRH50120-24P/24S	219.5	24	24	48
SRH50120-18P/36S	219.5	18	36	54
SRH50120-12P/48S	219.5	12	48	60
SRH50120-6P/60S	219.5	6	60	66
SRH50120-72S	219.5	—	72	72

可按客户需求定制到156通路
Max 156 circuits available on request

SRH60135 Series

型号 Type	长度 (L=mm)	额定电流 Rated Current		总路数 Total No.of Circuits
		功率P(10A、15A或20A)	信号S(5A)	
SRH60135-6P	77.5	6	—	6
SRH60135-12S	77.5	—	12	12
SRH60135-12P	107.5	12	—	12
SRH60135-6P/12S	107.5	6	12	18
SRH60135-24S	107.5	—	24	24
SRH60135-18P	137.5	18	—	18
SRH60135-12P/12S	137.5	12	12	24
SRH60135-6P/24S	137.5	6	24	30
SRH60135-36S	137.5	—	36	36
SRH60135-24P	167.5	24	—	24
SRH60135-18P/12S	167.5	18	12	30
SRH60135-12P/24S	167.5	12	24	36
SRH60135-6P/36S	167.5	6	36	42
SRH60135-48S	167.5	—	48	48
SRH60135-30P	197.5	30	—	30
SRH60135-24P/12S	197.5	24	12	36
SRH60135-18P/24S	197.5	18	24	42
SRH60135-12P/36S	197.5	12	36	48
SRH60135-6P/48S	197.5	6	48	54
SRH60135-60S	197.5	—	60	60
SRH60135-36P	227.5	36	—	36
SRH60135-30P/12S	227.5	30	12	42
SRH60135-24P/24S	227.5	24	24	48
SRH60135-18P/36S	227.5	18	36	54
SRH60135-12P/48S	227.5	12	48	60
SRH60135-6P/60S	227.5	6	60	66
SRH60135-72S	227.5	—	72	72
SRH60135-42P	257.5	42	—	42
SRH60135-36P/12S	257.5	36	12	48
SRH60135-30P/24S	257.5	30	24	54
SRH60135-24P/36S	257.5	24	36	60
SRH60135-18P/48S	257.5	18	48	66
SRH60135-12P/60S	257.5	12	60	72
SRH60135-6P/72S	257.5	6	72	78
SRH60135-84S	257.5	—	84	84
SRH60135-48P	287.5	48	—	48
SRH60135-42P/12S	287.5	42	12	54
SRH60135-36P/24S	287.5	36	24	60
SRH60135-30P/36S	287.5	30	36	66
SRH60135-24P/48S	287.5	24	48	72
SRH60135-18P/60S	287.5	18	60	78
SRH60135-12P/72S	287.5	12	72	84
SRH60135-6P/84S	287.5	6	84	90
SRH60135-96S	287.5	—	96	96

可按客户需求定制到216通路
Max 216 circuits available on request

SRH70155 Series

型号 Type	长度 (L=mm)	额定电流 Rated Current		总路数 Total No.of Circuits
		功率P(10A、15A或20A)	信号S(5A)	
SRH70155-6P	80.8	6	—	6
SRH70155-12S	80.8	—	12	12
SRH70155-12P	110.8	12	—	12
SRH70155-6P/12S	110.8	6	12	18
SRH70155-24S	110.8	—	24	24
SRH70155-18P	140.8	18	—	18
SRH70155-12P/12S	140.8	12	12	24
SRH70155-6P/24S	140.8	6	24	30
SRH70155-36S	140.8	—	36	36
SRH70155-24P	170.8	24	—	24
SRH70155-18P/12S	170.8	18	12	30
SRH70155-12P/24S	170.8	12	24	36
SRH70155-6P/36S	170.8	6	36	42
SRH70155-48S	170.8	—	48	48
SRH70155-30P	200.8	30	—	30
SRH70155-24P/12S	200.8	24	12	36
SRH70155-18P/24S	200.8	18	24	42
SRH70155-12P/36S	200.8	12	36	48
SRH70155-6P/48S	200.8	6	48	54
SRH70155-60S	200.8	—	60	60
SRH70155-36P	230.8	36	—	36
SRH70155-30P/12S	230.8	30	12	42
SRH70155-24P/24S	230.8	24	24	48
SRH70155-18P/36S	230.8	18	36	54
SRH70155-12P/48S	230.8	12	48	60
SRH70155-6P/60S	230.8	6	60	66
SRH70155-72S	230.8	—	72	72
SRH70155-42P	260.8	42	—	42
SRH70155-36P/12S	260.8	36	12	48
SRH70155-30P/24S	260.8	30	24	54
SRH70155-24P/36S	260.8	24	36	60
SRH70155-18P/48S	260.8	18	48	66
SRH70155-12P/60S	260.8	12	60	72
SRH70155-6P/72S	260.8	6	72	78
SRH70155-84S	260.8	—	84	84
SRH70155-48P	290.8	48	—	48
SRH70155-42P/12S	290.8	42	12	54
SRH70155-36P/24S	290.8	36	24	60
SRH70155-30P/36S	290.8	30	36	66
SRH70155-24P/48S	290.8	24	48	72
SRH70155-18P/60S	290.8	18	60	78
SRH70155-12P/72S	290.8	12	72	84
SRH70155-6P/84S	290.8	6	84	90
SRH70155-96S	290.8	—	96	96

可按客户需求定制到216通路
Max 216 circuits available on request

SRH80180 Series

型号 Type	长度 (L=mm)	额定电流 Rated Current		总路数 Total No.of Circuits
		功率P(10A、15A或20A)	信号S(5A)	
SRH80180-6P	88.5	6	—	6
SRH80180-12S	88.5	—	12	12
SRH80180-12P	118.5	12	—	12
SRH80180-6P/12S	118.5	6	12	18
SRH80180-24S	118.5	—	24	24
SRH80180-18P	148.5	18	—	18
SRH80180-12P/12S	148.5	12	12	24
SRH80180-6P/24S	148.5	6	24	30
SRH80180-36S	148.5	—	36	36
SRH80180-24P	178.5	24	—	24
SRH80180-18P/12S	178.5	18	12	30
SRH80180-12P/24S	178.5	12	24	36
SRH80180-6P/36S	178.5	6	36	42
SRH80180-48S	178.5	—	48	48
SRH80180-30P	208.5	30	—	30
SRH80180-24P/12S	208.5	24	12	36
SRH80180-18P/24S	208.5	18	24	42
SRH80180-12P/36S	208.5	12	36	48
SRH80180-6P/48S	208.5	6	48	54
SRH80180-60S	208.5	—	60	60
SRH80180-36P	238.5	36	—	36
SRH80180-30P/12S	238.5	30	12	42
SRH80180-24P/24S	238.5	24	24	48
SRH80180-18P/36S	238.5	18	36	54
SRH80180-12P/48S	238.5	12	48	60
SRH80180-6P/60S	238.5	6	60	66
SRH80180-72S	238.5	—	72	72
SRH80180-42P	268.5	42	—	42
SRH80180-36P/12S	268.5	36	12	48
SRH80180-30P/24S	268.5	30	24	54
SRH80180-24P/36S	268.5	24	36	60
SRH80180-18P/48S	268.5	18	48	66
SRH80180-12P/60S	268.5	12	60	72
SRH80180-6P/72S	268.5	6	72	78
SRH80180-84S	268.5	—	84	84
SRH80180-48P	298.5	48	—	48
SRH80180-42P/12S	298.5	42	12	54
SRH80180-36P/24S	298.5	36	24	60
SRH80180-30P/36S	298.5	30	36	66
SRH80180-24P/48S	298.5	24	48	72
SRH80180-18P/60S	298.5	18	60	78
SRH80180-12P/72S	298.5	12	72	84
SRH80180-6P/84S	298.5	6	84	90
SRH80180-96S	298.5	—	96	96

可按客户需求定制到216通路

Max 216 circuits available on request

SRH90190 Series

型号 Type	长度 (L=mm)	额定电流 Rated Current		总路数 Total No.of Circuits
		功率P(10A、15A或20A)	信号S(5A)	
SRH90190-6P	88.5	6	—	6
SRH90190-12S	88.5	—	12	12
SRH90190-12P	118.5	12	—	12
SRH90190-6P/12S	118.5	6	12	18
SRH90190-24S	118.5	—	24	24
SRH90190-18P	148.5	18	—	18
SRH90190-12P/12S	148.5	12	12	24
SRH90190-6P/24S	148.5	6	24	30
SRH90190-36S	148.5	—	36	36
SRH90190-24P	178.5	24	—	24
SRH90190-18P/12S	178.5	18	12	30
SRH90190-12P/24S	178.5	12	24	36
SRH90190-6P/36S	178.5	6	36	42
SRH90190-48S	178.5	—	48	48
SRH90190-30P	208.5	30	—	30
SRH90190-24P/12S	208.5	24	12	36
SRH90190-18P/24S	208.5	18	24	42
SRH90190-12P/36S	208.5	12	36	48
SRH90190-6P/48S	208.5	6	48	54
SRH90190-60S	208.5	—	60	60
SRH90190-36P	238.5	36	—	36
SRH90190-30P/12S	238.5	30	12	42
SRH90190-24P/24S	238.5	24	24	48
SRH90190-18P/36S	238.5	18	36	54
SRH90190-12P/48S	238.5	12	48	60
SRH90190-6P/60S	238.5	6	60	66
SRH90190-72S	238.5	—	72	72
SRH90190-42P	268.5	42	—	42
SRH90190-36P/12S	268.5	36	12	48
SRH90190-30P/24S	268.5	30	24	54
SRH90190-24P/36S	268.5	24	36	60
SRH90190-18P/48S	268.5	18	48	66
SRH90190-12P/60S	268.5	12	60	72
SRH90190-6P/72S	268.5	6	72	78
SRH90190-84S	268.5	—	84	84
SRH90190-48P	298.5	48	—	48
SRH90190-42P/12S	298.5	42	12	54
SRH90190-36P/24S	298.5	36	24	60
SRH90190-30P/36S	298.5	30	36	66
SRH90190-24P/48S	298.5	24	48	72
SRH90190-18P/60S	298.5	18	60	78
SRH90190-12P/72S	298.5	12	72	84
SRH90190-6P/84S	298.5	6	84	90
SRH90190-96S	298.5	—	96	96

可按客户需求定制到216通路
Max 216 circuits available on request

SRH100203 Series

型号 Type	长度 (L=mm)	额定电流 Rated Current		总路数 Total No.of Circuits
		功率P(10A、15A或20A)	信号S(5A)	
SRH100203-6P	93.5	6	—	6
SRH100203-10S	93.5	—	10	10
SRH100203-12P	125	12	—	12
SRH100203-6P/10S	125	6	10	16
SRH100203-20S	125	—	20	20
SRH100203-18P	156.5	18	—	18
SRH100203-12P/10S	156.5	12	10	22
SRH100203-6P/20S	156.5	6	20	26
SRH100203-30S	156.5	—	30	30
SRH100203-24P	188	24	—	24
SRH100203-18P/10S	188	18	10	28
SRH100203-12P/20S	188	12	20	32
SRH100203-6P/30S	188	6	30	36
SRH100203-40S	188	—	40	40
SRH100203-30P	219.5	30	—	30
SRH100203-24P/10S	219.5	24	10	34
SRH100203-18P/20S	219.5	18	20	38
SRH100203-12P/30S	219.5	12	30	42
SRH100203-6P/40S	219.5	6	40	46
SRH100203-50S	219.5	—	50	50
SRH100203-36P	251	36	—	36
SRH100203-30P/10S	251	30	10	40
SRH100203-24P/20S	251	24	20	44
SRH100203-18P/30S	251	18	30	48
SRH100203-12P/40S	251	12	40	52
SRH100203-6P/50S	251	6	50	56
SRH100203-60S	251	—	60	60
SRH100203-42P	282.5	42	—	42
SRH100203-36P/10S	282.5	36	10	46
SRH100203-30P/20S	282.5	30	20	50
SRH100203-24P/30S	282.5	24	30	54
SRH100203-18P/40S	282.5	18	40	58
SRH100203-12P/50S	282.5	12	50	62
SRH100203-6P/60S	282.5	6	60	66
SRH100203-70S	282.5	—	70	70
SRH100203-48P	314	48	—	48
SRH100203-42P/10S	314	42	10	52
SRH100203-36P/20S	314	36	20	56
SRH100203-30P/30S	314	30	30	60
SRH100203-24P/40S	314	24	40	64
SRH100203-18P/50S	314	18	50	68
SRH100203-12P/60S	314	12	60	72
SRH100203-6P/70S	314	6	70	76
SRH100203-80S	314	—	80	80

可按客户需求定制到216通路
Max 216 circuits available on request

电气技术指标 Electrical data

参数 Specification	数值 Values	
	功率 Power	信号 Signal
额定电压 Rated Voltage	380VAC	240VAC/VDC
绝缘电阻 Insulation Resistance	≥1000MΩ/500VDC	≥500MΩ/500VDC
导线规格 Lead Size	PVC或PE绝缘 Insulated PVC or PE	AWG22镀银铁氟龙绝缘 AWG22 sliver plated, PTFE insulated
导线长度 Lead Length	标准500mm Standard: 500mm	
绝缘强度 Dielectric Strength	500VAC@50Hz,60s	
动态电阻变化值 Electrical Noise	≤10mΩ	

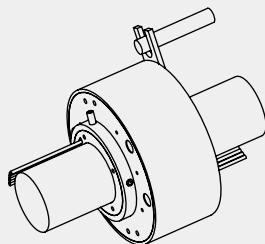
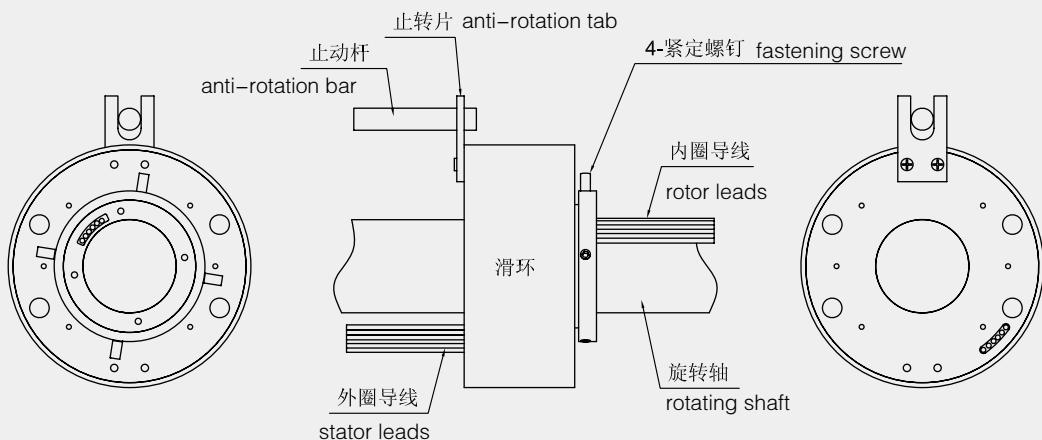
机械技术指标 Mechanical data

参数 Specification	数值 Values
额定转速 Rated Speed	250 / 500 rpm
工作温度 Working temperature	-20°C ~ +80°C
工作湿度 Operating Humidity	60%RH 或更高 60%RH or higher
接触材料 Contact Material	贵金属 Precious metals
壳体材料 Housing Material	工程塑料或铝合金 Engineering Plastics or Aluminum
力 矩 Torque	6路为0.1N · m,每增加6路加0.03N · m 0.1N · M for -6 version, 0.03N · M increased for every 6 rings added
防护等级 Protection level	标准IP51， 可选IP54,IP65 Standard:IP51, Optional:IP54,IP65

标准滑环导线色码表Lead color code

色码	红RED	黄YEL	黑BLK	蓝BLU	绿GRN	白WHT	紫PUP	灰GRY	棕BRN	橙ORN	深蓝/白红DBLU/WHT-RED	土黄/黄绿KHK/YEL-GRN
6路	1	2	3	4	5	6	-	-	-	-	-	-
12路	1	2	3	4	5	6	7	8	9	10	11	12
18路	1 13	2 14	3 15	4 16	5 17	6 18	7	8	9	10	11	12
24路	1 13	2 14	3 15	4 16	5 17	6 18	7 19	8 20	9 21	10 22	11 23	12 24
30路	1 13 25	2 14 26	3 15 27	4 16 28	5 17 29	6 18 30	7 19	8 20	9 21	10 22	11 23	12 24
36路	1 13 25	2 14 26	3 15 27	4 16 28	5 17 29	6 18 30	7 19 31	8 20 32	9 21 33	10 22 34	11 23 35	12 24 36
42路	1 13 25 37	2 14 26 38	3 15 27 39	4 16 28 40	5 17 29 41	6 18 30 42	7 19 31	8 20 32	9 21 33	10 22 34	11 23 35	12 24 36
48路	1 13 25 37	2 14 26 38	3 15 27 39	4 16 28 40	5 17 29 41	6 18 30 42	7 19 31 43	8 20 32 44	9 21 33 45	10 22 34 46	11 23 35 47	12 24 36 48

安装方式 way of installation



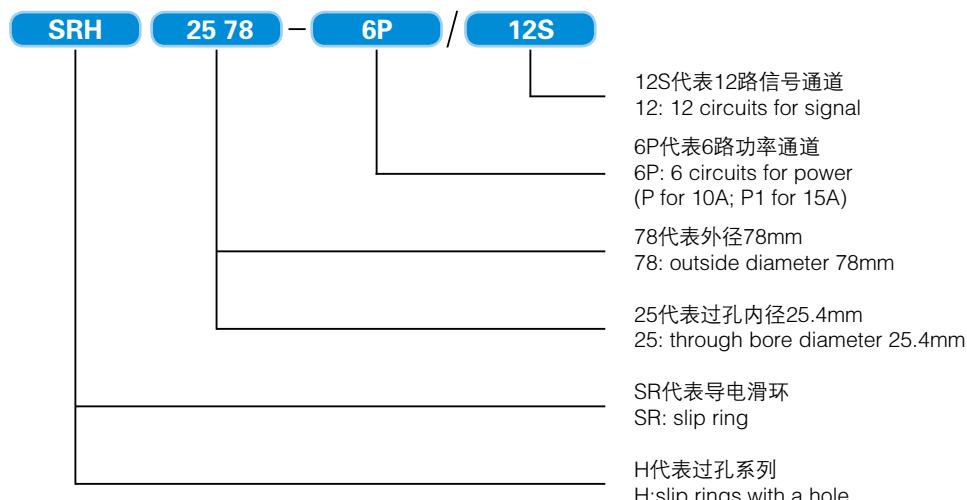
安装说明 Installation explanation

■ 因为滑环转子和定子在安装时很难保证同心，建议用四个紧定螺钉将滑环固定在旋转轴上，止动杆插入止动片即可，千万不能强行固定止动片，否则可能会导致滑环损坏或达不到预期使用寿命。

注意事项 Attentions:

- 滑环环体不得作承重用，环体导线也不得承受外部拉力
The slip ring should not be used for load bearing; the cables should not be stressed nor tensed
- 在滑环安装时，务必要保护好导线，避免因导体绝缘层损坏而影响产品品质
When installing the slip rings, the cables should be well protected
- 滑环系精密电气元件，应使其在一个干燥，少尘的环境下工作。如果环境条件恶劣，应增加防护措施
The slip ring should be used in dry, low dust environment. If working environment is bad, more protection measures should be taken

型号选用说明 Model explanation



以太网滑环

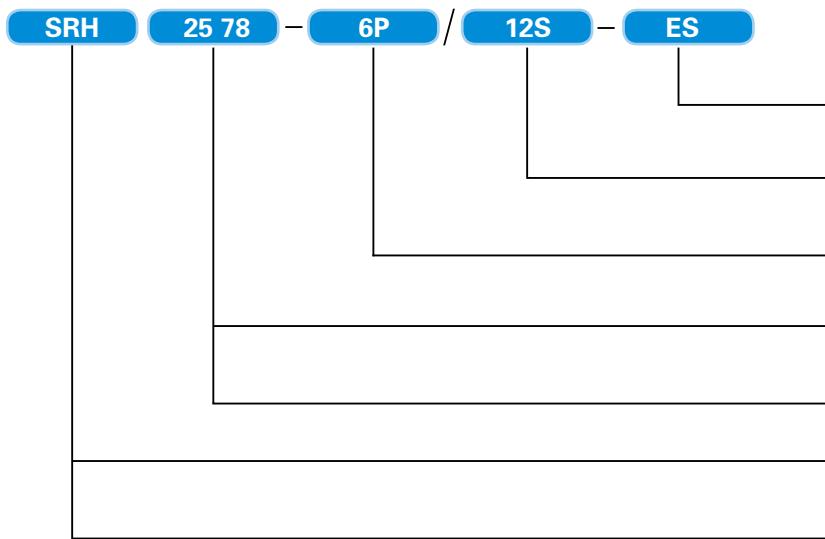
Ethernet Slip Ring

特点 Features

- 为高速率数据和无错传输协议设计，满足各类网络信号、高清视频信号、差分信号和工业以太网信号传输需求
Designed for high rate and error free transmitting protocols, can transmit all kinds of Ethernet signals, high-definition video signals, differential signals.
- 数据传输稳定、不丢包、不串码、回损小、插入损耗小，具有超低的误码率和超高的信噪比
Stable data transmission, no packet loss, low return loss, low insertion loss, extremely low error rate and super high SNR
- 可混合动力、控制及数字信号传输，可混合光纤、气液传输 The solution can combine hybrid of power, control& digital signal, fiber optic, gas-liquid.
- 独家专利纤刷、镀层技术，低接触压力，低噪音和低接触磨损，免维护，超长使用寿命
Applies advanced fiber brush and coating technology, low contact pressure, low noise, low contact wear; free of maintenance, extremely long life-time
- 标准化、模块化设计，产品规格齐全，并能为客户量身定制所需要的产品 Standardized & modularized design; customized solutions are also available

型号选用说明

Model explanation



ES代表特殊信号
ES: Special signal

12S代表12路普通信号通道
12: 12 circuits for signal

6P代表6路功率通道
6P: 6 circuits for power
(P for 10A; P1 for 15A)

78代表外径78mm
78: outside diameter 78mm

25代表过孔内径25.4mm
25: through bore diameter 25.4mm

SR代表导电滑环
SR: slip ring

H代表过孔系列
H:slip rings with a hole

外形尺寸 Outline Dimension

过孔孔径 d (mm)	外径 D (mm)	A (mm)	B (mm)	C (mm)	长度 L (mm)
12.7	54	35	30.25	6.5	
25.4	78	54.5	44.25	9.5	
38.1	99	64.5	54.25	9.5	
50	120	80	66.8	9.5	
60	135	97.5	74.25	9.5	
70	155	96.5	83.25	9.5	
80	180	116.5	100.5	12.8	
90	190	123	107	12.8	
100	203	131	115	12.8	
120					外形尺寸可定制 Outline dimension as request

按客户需要可选
As request

电气技术指标 Electrical data

参数 Specification	数值 Values
额定电压 Rated Voltage	240VAC / VDC
额定电流 Rated Current	标准每环为2A 2A/ring
导线规格 Lead Size	CAT5、CAT5e、CAT6、CAT7
导线长度 Lead length	标准500mm Standard 500mm
绝缘电阻 Insulation Resistance	$\geq 500M\Omega/500VDC$
绝缘体强度 Dielectric Strength	500VAC@50Hz, 60s
动态电阻变化值 Electrical Noise	$\leq 10m\Omega$
误码率 BER	10^{-11}
插入损耗 Insert Loss	$\leq 2db$

机械技术指标 Mechanical data

参数 Specification	数值 Values
通道数 Circuits	一路或更多 (1 or more)
额定转速 Operating Speed	0 ~ 250 / 500rpm
工作温度 Temperature Range	-20°C ~ +80°C
工作湿度 Operating Humidity	60%RH 或更高 60%RH or higher
接触材料 Contact Material	贵金属 Precious Metals
壳体材料 Housing Material	工程塑料/金属 Engineering Plastics or Metals
过孔内径 Through Bore Diameter	12.7mm、25.4 mm、38.1 mm、50 mm (其余尺寸可定制)
外径 Outside Diameter	54 mm、78 mm、99 mm、120 mm (其余尺寸可定制)
防护等级 Protection level	标准IP51， 可选IP54,IP65 Standard:IP51, Optional:IP54,IP65

SRT石油海洋专用滑环

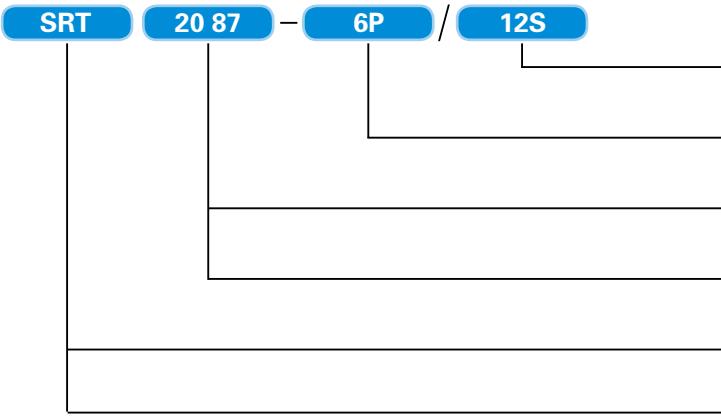
SRT Marine and Oilfield Slip Ring

特点 Features

- 特殊耐高压5000V结构，能够满足海上大功率设备电力传输需求。
Special structure for high voltage 5000V can transmit high power on the sea
- 全不锈钢壳体，以及优异的密封性能，使得滑环具备优良的耐候性,最高防护等级可达IP67。
Stainless steel material and the good sealing makes slip ring can work in harsh oilfield conditions, protection level can be up to IP67
- 每环多点接触，低接触压力，低噪音和低接触磨损，超长的使用寿命。
Multi contact point in each circuit, low contact pressure, low noise, low contact wear,; extremely long life time
- 可内置编码器和光纤旋转连接器。
These designs can be integrated with other products such as encoder and fiber optical rotary joints

型号选用说明 Model explanation

SRT 标准滑环系列 SRT Standard Slip Ring



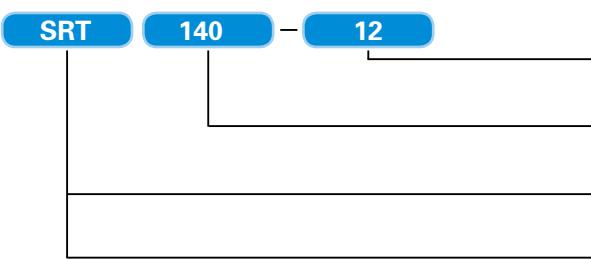
可选项 Options

- 额定电流、电压 Current / Voltage
- 额定速度 Operating speed
- 工作温度 Operating temperature
- 路数 Number of rings
- 外壳材料及颜色 Housing material and color
- 外型尺寸 Outline dimension
- 专用导线 Special lead wire
- 导线出口方向 Lead exit location
- 导线长度 Lead length
- 端子类型 Terminal type

典型应用 Typical Application

- 船用吊装机械
Marine lifting machinery
- 石油钻井平台、船舶机械
Oil drilling platform, marine machinery

SRT 特制滑环系列 SRT Special Slip Ring

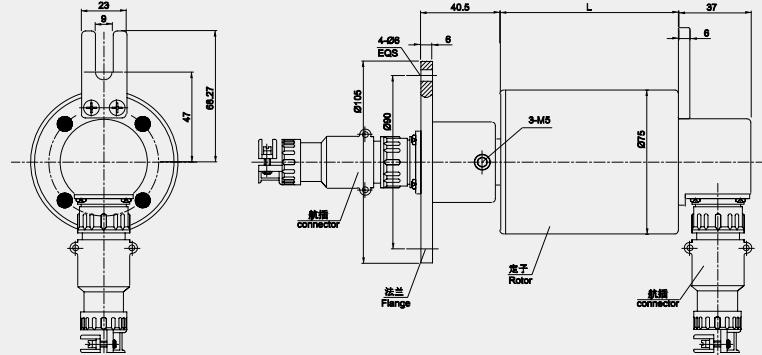
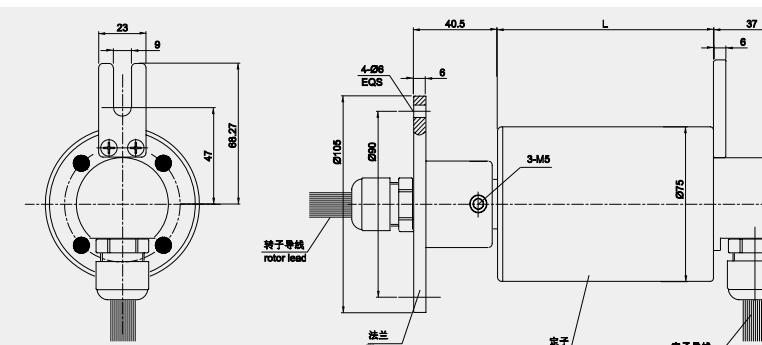


12S代表12路信号通道
12: 12 channels for signal (5A/channel)
6P代表6路功率通道
6P: 6 channels for power
(P for 10A; P1 for 15A)
20代表出线孔孔径
20: Rotor lead exit diameter
87代表外径87mm
87: Outside diameter 87mm
T代表特制滑环
T: Special
SR代表导电滑环
SR: Slip ring

12代表12路通道（每通道5A）
12: 12 circuits (5A/circuit)
140代表主体外径140mm
140: outside diameter 140mm
SR代表导电滑环
SR: slip ring
T代表特殊系列
T:slip rings without hole

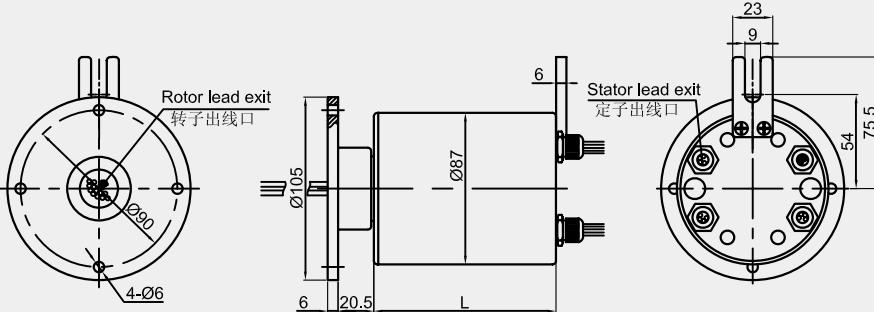
SRT 标准滑环系列 SRT Standard Slip Ring

SRT1075 系列 Series

型号 TYPE	外形尺寸 OUTLINE DIMENSION 单位UNIT (mm)
 <p>● 带航空插头(SRT1075A) with connectors</p>	 <p>外径 Ø105 轴向厚度 47 高度 68.27 转子直径 Ø290 定子直径 Ø75 转子法兰直径 Ø105 定子法兰直径 Ø75 转子引线孔径 4-06 定子引线孔径 3-M5 转子引线孔深 6 定子引线孔深 6 转子引线孔间距 L 定子引线孔间距 37 转子引线孔内径 23 定子引线孔内径 9</p>
 <p>● 带导线(SRT1075B) with free leads</p>	 <p>外径 Ø105 轴向厚度 47 高度 68.27 转子直径 Ø290 定子直径 Ø75 转子法兰直径 Ø105 定子法兰直径 Ø75 转子引线孔径 4-06 定子引线孔径 3-M5 转子引线孔深 6 定子引线孔深 6 转子引线孔间距 L 定子引线孔间距 37 转子引线孔内径 23 定子引线孔内径 9</p>

L=48.98+2.32 × n n: 代表路数 n: number of circuits
 说明: 转子法兰可以按客户需求定制 Note: different flange type can be made as request

SRT2087 系列 Series

型号 TYPE	外形尺寸 OUTLINE DIMENSION 单位UNIT (mm)
	 <p>转子出线口 Rotor lead exit 定子出线口 Stator lead exit 外径 Ø105 轴向厚度 6 高度 75.5 转子直径 Ø290 定子直径 Ø87 转子法兰直径 Ø105 定子法兰直径 Ø87 转子引线孔径 4-06 定子引线孔径 6 转子引线孔深 20.5 定子引线孔深 L 转子引线孔内径 23 定子引线孔内径 9</p>

机械技术指标 Mechanical data

参数 Specification	数值 Values
额定转速 Rated Speed	0~500 rpm
工作温度 Working temperature	-20°C ~ +80°C
工作湿度 Operating Humidity	60%RH 或更高 60%RH or higher
接触材料 Contact Material	贵金属 Precious Metals
结构材料 Housing material	不锈钢Stainless steel
防护等级 Protection level	IP65

SRT1075系列 电气技术指标 Electrical data

参数 Specification	数值 Values
路 数 No. of Circuits	6、12、18、24、30、36、42、48
额定电压 Rated Voltage	240VAC / VDC
额定电流 Rated Current	5A/路 5A/ring
绝缘电阻 Insulation Resistance	≥500MΩ/500VDC
绝缘体强度 Dielectric Strength	500VAC@50Hz, 60s
动态电阻变化值 Electrical Noise	≤10mΩ
连接器 Connectors	采用防水、镀金插针, 或采用导线 (Use waterproof, gilded pin, or wires)

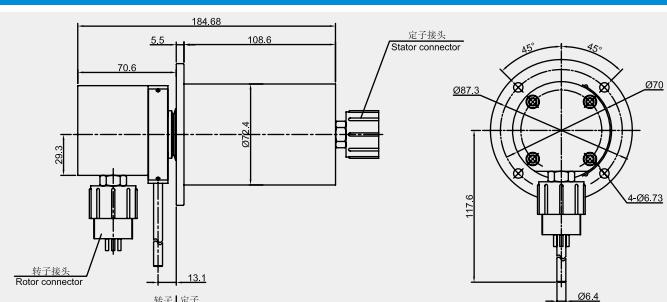
SRT2087系列 电气技术指标 Electrical data

参数 Specification	数值 Values	
	功率 Power	信号 Signal
路 数 No. of Circuits	6、12、18、24、30、36、42、48	
额定电压 Rated Voltage	380VAC	240VAC/ 240VDC
额定电流 Rated Current	10A/路	2A/路
绝缘电阻 Insulation Resistance	≥1000MΩ / 500VDC	≥500MΩ / 500VDC
绝缘体强度 Dielectric Strength	500VAC@50Hz, 60s	500VAC@50Hz, 60s
动态电阻变化值 Electrical Noise	≤10mΩ	≤10mΩ
导线规格 Lead Size	AWG16镀锡铁氟龙绝缘或PVC绝缘 AWG16 tin plated, PTFE insulated or PVC	AWG26 镀银铁氟龙绝缘 AWG26 sliver plated, PTFE insulated
导线长度 Lead Length	500mm或根据客户要求提供 500mm(or as request)	

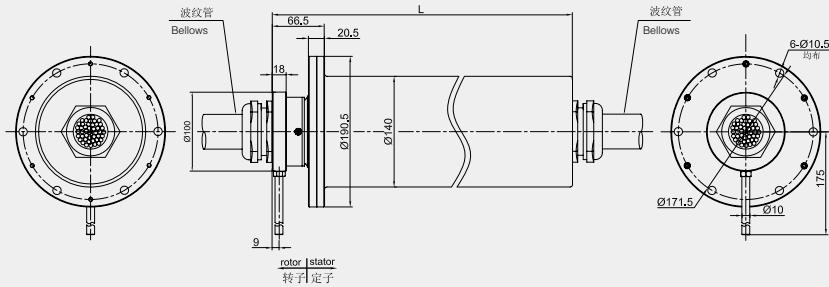
导线色码表见第28页 Lead Color Code: P28

SRT 特制滑环系列 SRT Special Slip Ring

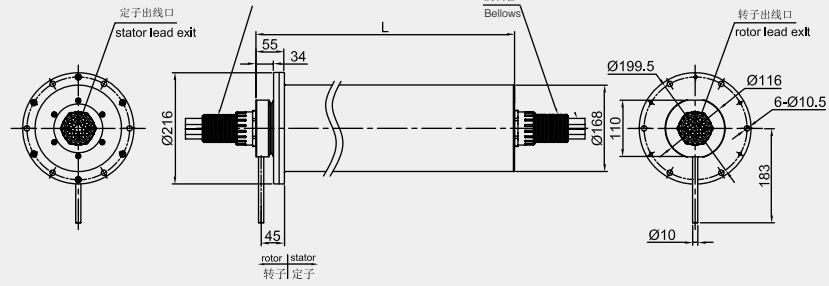
SRT1072F 系列 Series

型号 TYPE	外形尺寸 OUTLINE DIMENSION 单位UNIT (mm)
 SRT1072F	

SRT140F 系列 Series

型号 TYPE	外形尺寸 OUTLINE DIMENSION 单位UNIT (mm)
 SRT140F	

SRT168F 系列 Series

型号 TYPE	外形尺寸 OUTLINE DIMENSION 单位UNIT (mm)
 SRT168F	

电气技术指标 Electrical data

参数 Specification	数值 Values		
型号 Type	SRT1072F	SRT140F	SRT168F
额定电压 Rated Voltage	600VAC / VDC	3300VAC / VDC	5000VAC / VDC
额定电流 Rated Current	10A/路 10A/ring	20A/路 20A/ring	
绝缘体强度 Dielectric Strength	≥1000VAC@50Hz, 60s	≥10000VAC@50Hz, 60s	≥15000VAC@50Hz, 60s
绝缘电阻 Insulation Resistance	≥800MΩ/1000VDC	≥1000MΩ/5000VDC	
动态电阻变化值 Electrical Noise		≤10mΩ	

机械技术指标 Mechanical data

参数 Specification	数值 Values		
型号 Type	SRT1072F	SRT140F	SRT168F
额定转速 Operating Speed	250 rpm	100 rpm	
工作温度 Operating Temperature		-20°C ~ +80°C	
工作湿度 Operating Humidity		≤95%RH	
接触材料 Contact Material		贵金属 Precious metal	
壳体材料 Housing Material	304或316不锈钢	Stainless steel 304 or stainless steel 316	
防护等级 Protection level		最高可达IP67 Up to IP67	

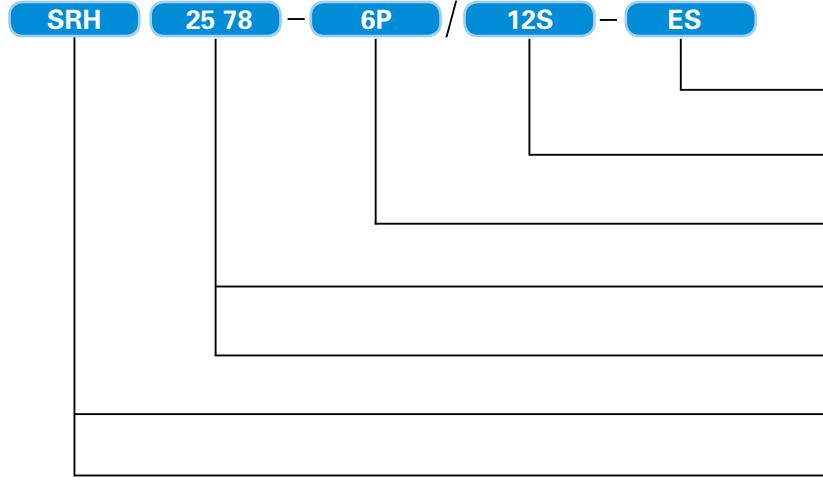
SRH中频滑环

SRH Medium Frequency Slip Ring

特点 Features

- 专为传输中频信号设计，采用行业尖端技术，具有比同类产品更大的带宽。 Design for medium frequency signal; adopt the sophisticated technology, larger bandwidth.
- 可通高清视频信号、USB2.0、工业总线、工业以太网等中频信号。 Can transmit HD video signal, USB2.0 signal ,industrial bus signal , industrial Ethernet signal and other medium-frequency signal.
- 误码率小于 10^{-11} 。 Error rate $< 10^{-11}$
- 每路多点接触，低接触压力，低噪音和低接触磨损，超长的使用寿命。 Multi contact point in each circuit, low contact pressure, low noise, low contact wear.; extremely long life time
- 可加载标准模块同时满足功率和信号的传输。

It can use standard moulds parts to transmit power and signals.



可选项 Options

- 加载标准模块 Standard model parts
- 通过信号速率或频率 Transmitting rate or frequency
- 隔离度 Isolation
- 颜色 Color

典型应用 Typical Application

- 军用天线、雷达等通讯设备 Military antenna, radar or other communication equipment

型号选用说明

Model explanation

ES代表特殊信号
ES: Special signal

12S代表12路普通信号通道
12: 12 circuits for signal

6P代表6路功率通道

6P: 6 circuits for power

(P for 10A; P1 for 15A; P2 for 20A)

78代表外径78mm

78: outside diameter 78mm

25代表过孔内径25.4mm

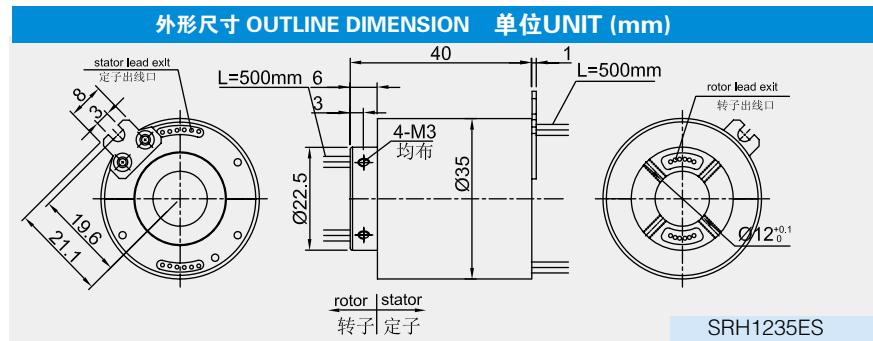
25: through bore diameter 25.4mm

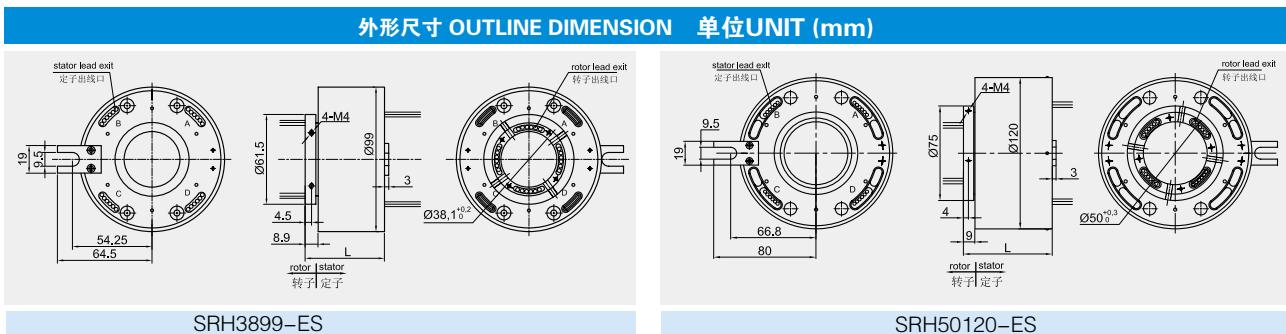
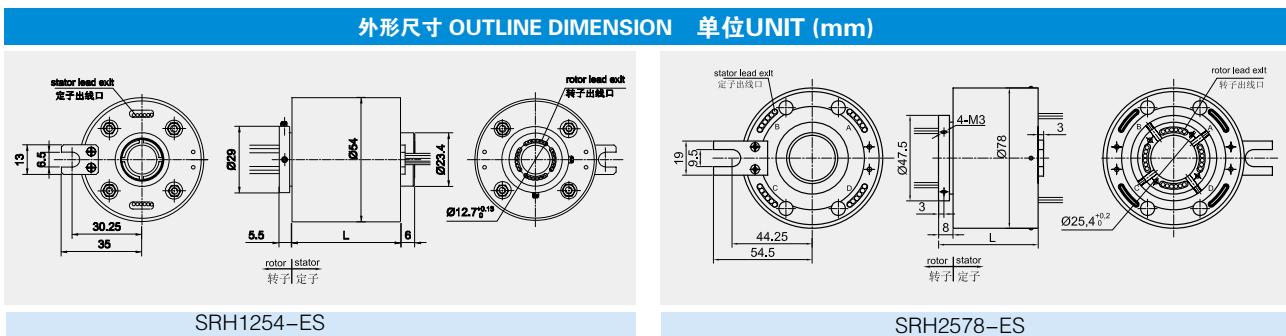
SR代表导电滑环

SR: slip ring

H代表过孔系列

H:slip rings with a hole





电气技术指标 Electrical data

型号 Model	频段(MHz)	插入损耗(dB)	回波损耗(dB)	隔离度(dB)
SRH1235-XX-ES	0 ~ 250	≤ 1.0	≥ 14	30
	250 ~ 550	1.0 ~ 2.0		
SRH1254-XX-ES	0 ~ 200	≤ 1.0	≥ 14	30、50可选
	200 ~ 350	1.0 ~ 2.0		
SRH2578-XX-ES	0 ~ 220	≤ 1.0	≥ 14	30、50可选
	220 ~ 470	1.0 ~ 2.0		
SRH3899-XX-ES	0 ~ 175	≤ 1.0	≥ 14	30、50可选
	175 ~ 290	1.0 ~ 2.0		
SRH50120-XX-ES	0 ~ 95	≤ 1.0	≥ 14	30、50可选
	95 ~ 200	1.0 ~ 2.0		

以上参数均为根据测试结果取得的最优使用频段，并不是滑环的极限使用频率，一般我们认为单环道极限频率 $f_{lim}=3 \times 10^8 \div [\pi \times (\text{内径} + 10 \sim 15) \times 10^{-3} \times 4]$ (Hz)。

The data above is the best frequency band chosen based on the testing result instead of slip ring's limit using frequency, normally, the limit frequency for each ring ($F_{lim}=3 \times 10^8 \div [\pi \times (ID+10 \sim 15) \times 10^{-3} \times 4]$ (Hz))

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 Working temperature	-20°C ~ +80°C
工作湿度 Humidity	≤ 95%RH
接触材料 Contact Material	贵金属 Precious metal
壳体材料 Housing Material	铝合金 Aluminium alloy
防护等级 Protection level	标准IP51，可选IP54,IP65 Standard:IP51, Optional:IP54,IP65

HFRJ高频旋转接头

HFRJ High Frequency Rotary Joint

特点 Features

- 专为射频信号传输而设计，最高频率可达40GHz。
Design for RF signal, Max frequency can be up to 40GHz.
- 同轴式接触设计，使得连接器具有超宽的带宽，无截止频率。
Coaxial contact design makes connector's bandwidth ultra wide.
- 多触点结构，有效减小相位抖动。
Multi contact structure decreases phase jitter effectively.
- 整体尺寸小，连接器接插使用，便于安装。
Small dimension, use with connectors

可选项 Options

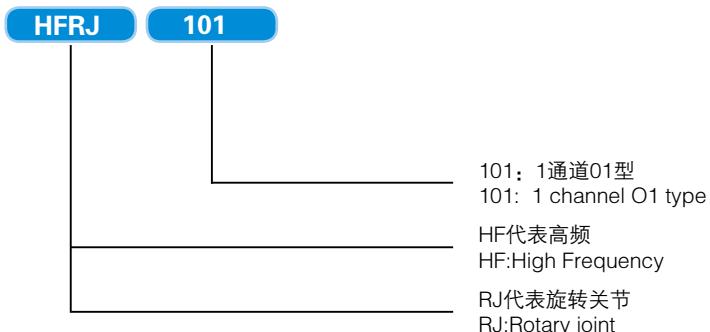
- 额定电流、电压 Current / Voltage
- 额定速度 Operating speed
- 工作温度 Operating temperature
- 路数 Number of rings
- 外壳材料及颜色 Housing material and color
- 外型尺寸 Outline dimension
- 专用导线 Special lead wire
- 导线出口方向 Lead exit location
- 导线长度 Lead length
- 端子类型 Terminal type

典型应用 Typical Application

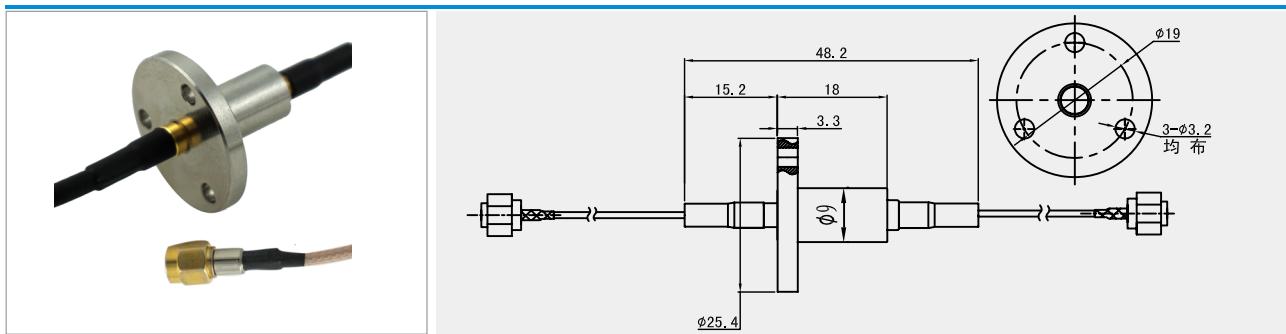
- 适用于军民用车载、雷达、微波无线旋转平台
Apply to the armed civilian vehicle, radar, microwave wireless rotary platform.

型号选用说明

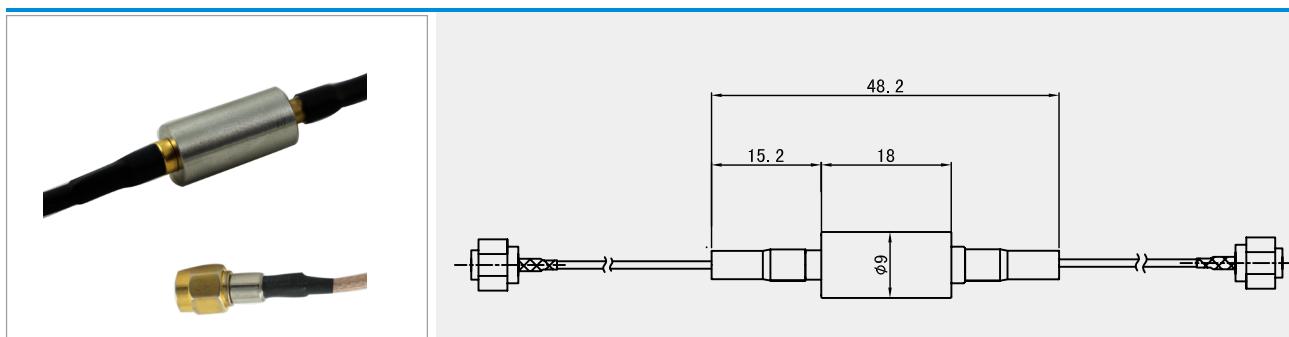
Model explanation



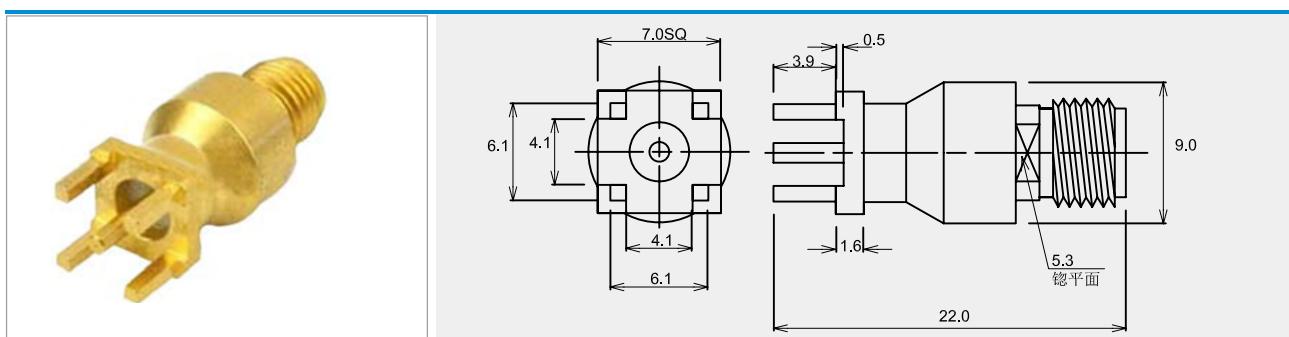
HFRJ101 系列 HFRJ101 Series



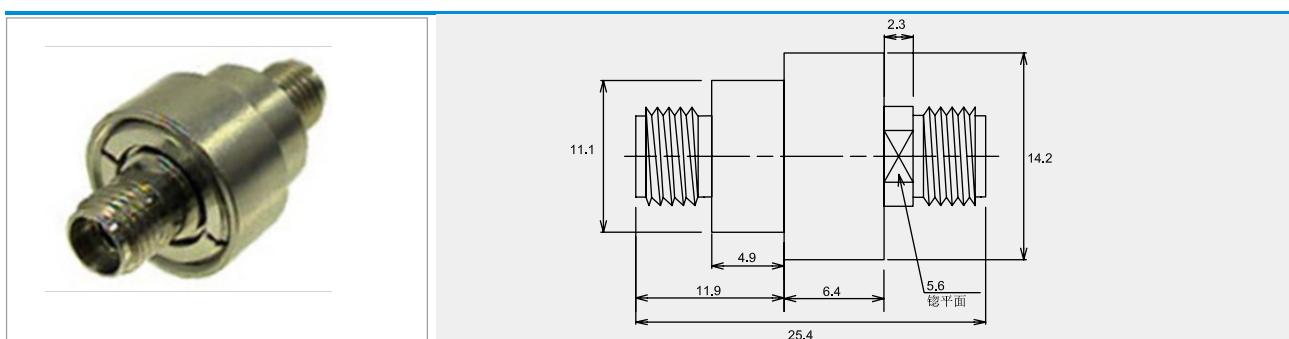
HFRJ102系列 Series



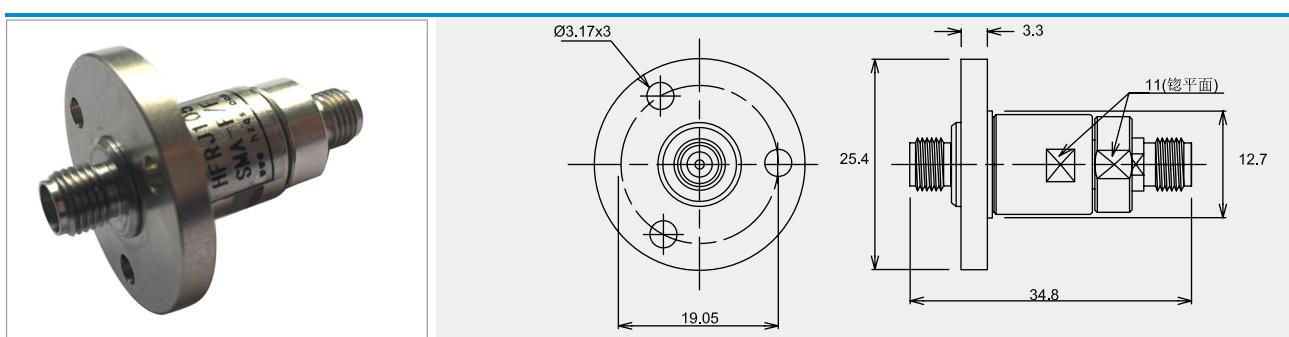
HFRJ103系列 Series



HFRJ104系列 Series



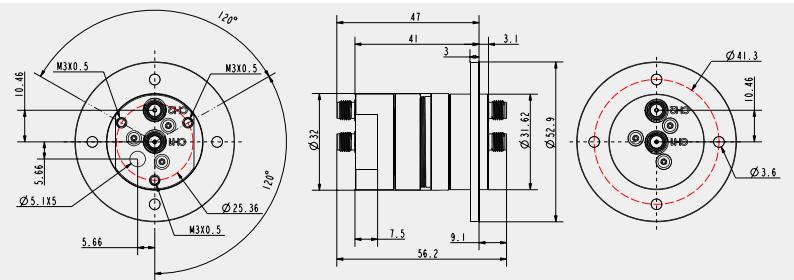
HFRJ105系列 Series



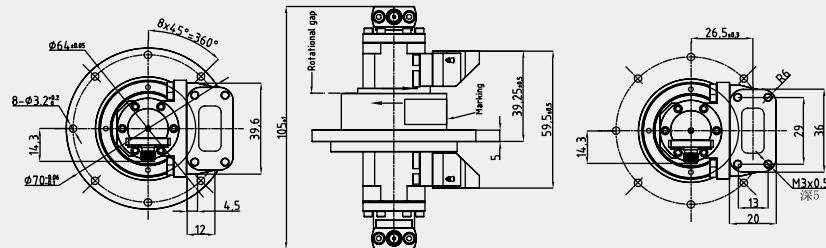
电气技术指标 Electrical data

参数 Specification	数值 Value				
型号 Model	HFRJ101	HFRJ102	HFRJ103	HFRJ104	HFRJ105
接口形式 Terminal type	SMA母接头 (50 Ω) Female connector	SMA母接头 (50 Ω) Female connector	PCB覆铜板-SMA母接头 (50 Ω)	SMA母接头 (50 Ω) Female connector	SMA母接头 (50 Ω) Female connector
规格 Specification	I 规格	I 规格	I 规格	I 规格	I 规格
频带 Frequency range	0 to 3GHz	0 to 3GHz	0 to 18 GHz	0 to 18 GHz	0 to 18 GHz
最大相位波动值 Max Phase fluctuations	1°	1°	0.5°	1°	1°
最大驻波比 Max VSWR	2.0	2.0	1.15	1.25	1.4
最大插入损耗(dB) Max insertion loss	2.9	2.9	0.3	0.6	1
最大驻波比波动值 Max VSWR WOW	0.1	0.1	0.01	0.05	0.05
最大插入损耗波动值 Max Insertion loss-WOW	0.5	0.5	0.05	0.1	0.1
最大峰值功率 Max peak power	3000 W	3000 W	3000 W	1500W	3000W
最大平均功率 Max average power	100 W @ 3 GHz	100 W @ 3 GHz	100 W @ 11 GHz 70 W @ 18 GHz	100 W @ 11 GHz 70 W @ 18 GHz	40 W @ 15 GHz 30W @ 18 GHz
最高转速 Max operating speed	100 rpm	100 rpm	100 rpm	100 rpm	100 rpm
最短寿命 Min life time	200万转	200万转	500万转	500万转	500万转
重量 Weight	35g	40g	5g	12g	27.6g
工作温度 Working temperature	-40 ~ +70°C				
工作湿度 Operating humidity	≤85%				
防护等级 Protection level	IP 40 按照 EN 60529				

| HFRJ201 系列 Series

型号 TYPE	外形尺寸 OUTLINE DIMENSION 单位UNIT (mm)
	 <p>Technical drawing showing the top view and side view cross-section of the HFRJ201 series connector. The top view indicates outer diameter (Ø41.3), inner hole diameter (Ø3.6), and various mounting holes. The side view shows the thickness (10.6), height (32.9), and internal slot dimensions (1.5, 9.1, 56.2).</p>

| HFRJ202 系列 Series

型号 TYPE	外形尺寸 OUTLINE DIMENSION 单位UNIT (mm)
	 <p>Technical drawing showing the top view and side view cross-section of the HFRJ202 series connector. The top view indicates outer diameter (Ø64mm), inner hole diameter (Ø70.4mm), and various mounting holes. The side view shows the thickness (10.5), height (39.6), and internal slot dimensions (1.5, 4.5, 12, 39.5, 55.5, 5).</p>

HFRJ201系列 电气技术指标 Electrical data

参数 Specification	通道1	通道2
接口 Connector	SMA 母接头 (50 Ω)	SMA 母接头 (50 Ω)
规格Specification	规格 I	规格 I
频段 Frequency range	0 ~ 4.5 GHz	0 ~ 4.5 GHz
峰值功率 Peak power	1500 W	1500 W
最大平均功率 Max average power	60 W @ 4.5 GHz	60 W @ 4.5 GHz
最大驻波比 Max VSWR	1.18	1.50
最大驻波比波动 Max VSWR WOW	0.04	0.16
最大插入损耗 Max insertion loss	0.25 dB	0.30 dB
最大插损波动值 Max Insertion loss-WOW	0.05 dB	0.15 dB
最大相位波动值 Max Phase fluctuations	0.5 °	4.0 °
隔离度 Isolation	50 dB min. / 60 dB 标准型	
直流功率(只适用于1条通道工作时) DC power (only for 1 channel)	0.5 A * 48 VDC @ 满功率	0.5 A * 48 VDC @ 满功率
重量Weight	0.13 kg	
工作温度 Working temperature	-40 ~ +70°C	
工作湿度 Operating humidity	≤85%	
防护等级 Protection level	IP 60 按照 EN 60529	

HFRJ202系列 电气技术指标 Electrical data

参数 Specification	1路波导通道	1路同轴通道
接口 Connector	R120 special flange	SMA 母接头 (50 Ω)
规格Specification	--	规格 I
频段 Frequency range	14 ~ 14.5 GHz	0 ~ 4 GHz
峰值功率 Peak power	10kw	--
最大平均功率 Max average power	100 W	10 W @ 4 GHz
最大驻波比 Max VSWR	1.2	1.2
最大驻波比波动 Max VSWR WOW	0.1	0.05
最大插入损耗 Max insertion loss	0.2 dB	0.4 dB
最大插损波动值 Max Insertion loss-WOW	0.05 dB	0.1 dB
最大相位波动值 Max Phase fluctuations	1 °	1 °
隔离度 Isolation	50 dB min. / 60 dB 标准型	
直流功率(只适用于1条通道工作时) DC power (only for 1 channel)	0.5 A * 48 VDC @ 满功率	0.5 A * 48 VDC @ 满功率
重量Weight	0.4 kg	
工作温度 Working temperature	-40 ~ +70°C	
工作湿度 Operating humidity	≤85%	
防护等级 Protection level	IP 64 按照 EN 60529	

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

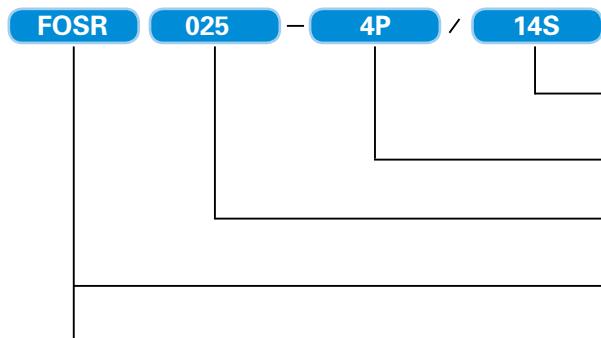
- 导线长度 Lead length
- 环道数 Number of rings
- 光纤类型 Fiber type
- 光纤接头 Connector type

典型应用 Typical Application

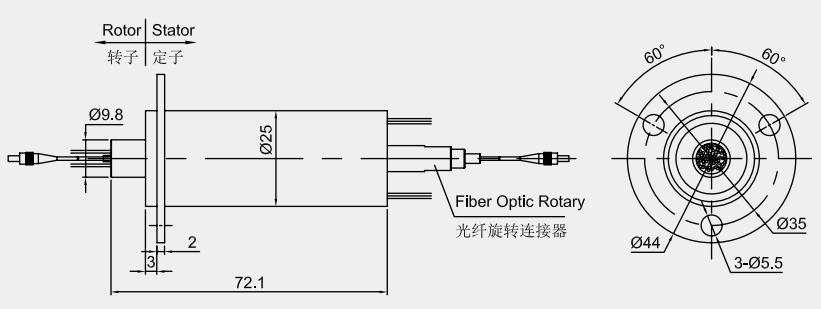
- 远程控制系统、数字和模拟信号的传输和控制
Transmission and control of remote control system,digital and analog signal.
- 雷达、天线系统 Radar and antenna system
- 视频监视系统 Video monitoring System

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)
 FOSR025	

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	1000MΩ@500VDC
动态电阻变化值 Electrical Noise	≤10mΩ

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 Pigtauls 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

气(液)电组合滑环系列

Pneumatic Hydraulic Electric Combined Slip Ring

特点 Features

- 电信号与气路、液路混走 Combination of electrical and pneumatic/hydraulic transmission
- 结构紧凑 Compact structure

典型应用 Typical Applications

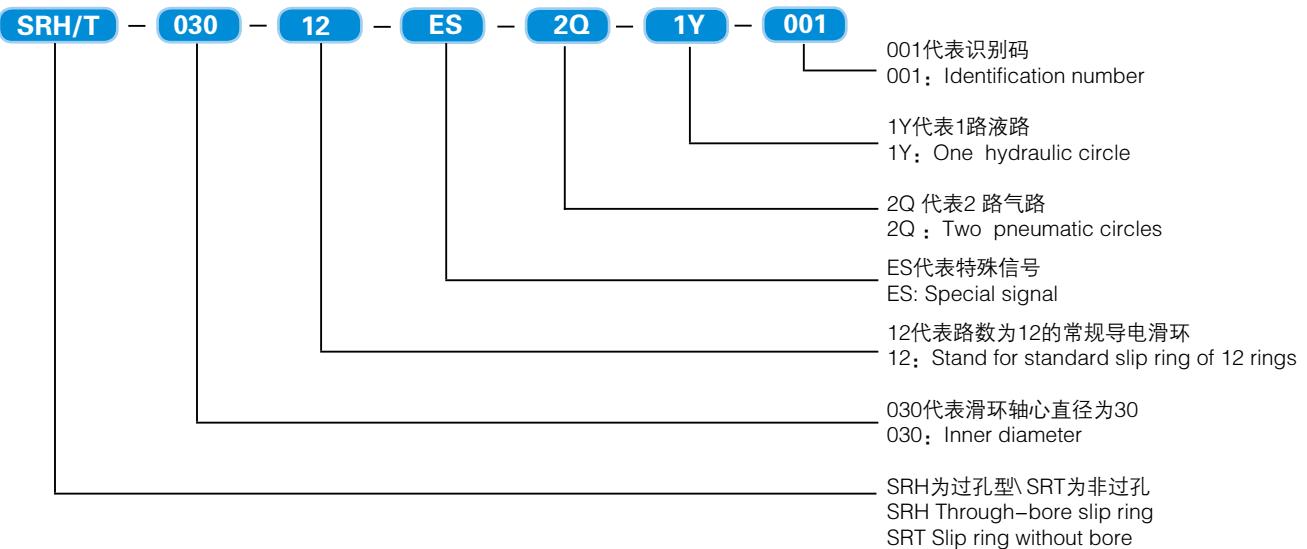
- 医疗器械设备 Medical equipment
- 自动焊机系统 Automatic welding machine system
- 雷达、天线系统 Radar and antenna system
- 工业自动化控制系统 Industrial automation control system

可选项 Options

- 电、气、液路数 Number of electrical/pneumatic/hydraulic circuits
- 电缆长度 Cables length
- 气路、液路的工作介质及工作压力 Transmission medium and pressure for pneumatic/hydraulic circuits
- 额定转速 Rated Speed



型号说明 Model explanation



SRD/SRP 盘式滑环

SRD/SRP Pancake Slip Ring

特点 Features

- 结构紧凑，空间利用率高，适用于尺寸受限的场合。
Compact structure, low in height
- 完全满足360度无限制旋转的动力、控制及数字信号混合传输。
Continuous transmission of power and/or signal under 360° unrestrained rotation
- 每环多点接触，低接触压力，低噪音和低接触磨损，超长的使用寿命。
Multi contact point in each circuit, low contact pressure, low noise, low contact wear,; extremely long life time
- 标准化、模块化设计，产品规格齐全，并能为客户量身定制所需要的产品。
Standardized & modularized design, customized solutions are available as well

典型应用 Typical Application

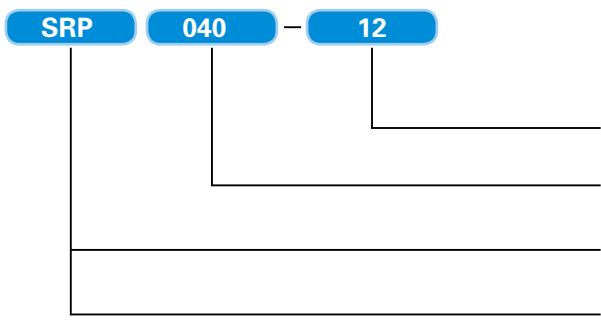
- 酒店、宾馆旋转门控制系统
Control system of hotel revolving door
- 雷达、天线系统
Radar and antenna system
- 工业自动化系统，机器人控制系统
Industrial automation system, robot control system

可选项 Options

- 额定电流、电压 Current / Voltage
- 额定速度 Operating speed
- 工作温度 Operating temperature
- 路数 Number of rings
- 外壳材料及颜色 Housing material and color
- 外型尺寸 Outline dimension
- 专用导线 Special lead wire
- 导线出口方向 Lead exit location
- 导线长度 Lead length
- 端子类型 Terminal type
- 产品结构 (SRD/SRP) Product mix

型号选用说明

Model explanation



12代表12路通道 (每通道5A)
12: 12 circuits (5A/circuit)

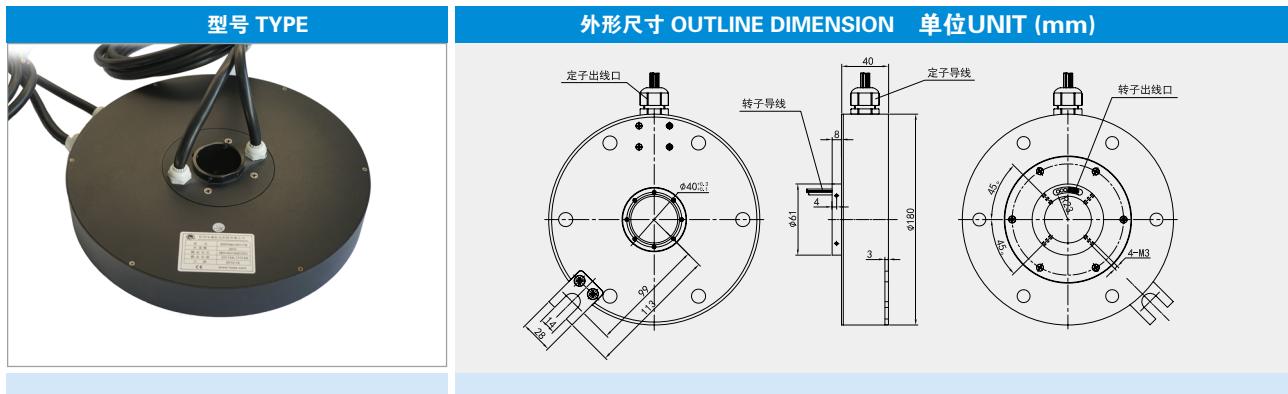
40代表过孔内径40mm
40: through bore diameter 40mm

SR代表导电滑环
SR: slip ring

P代表盘式系列
P:Pancake Slip Ring

SRD040-3P/17S 盘式导电滑环

SRD040-3P/17S Pancake Slip Ring



电气技术指标 Electrical data

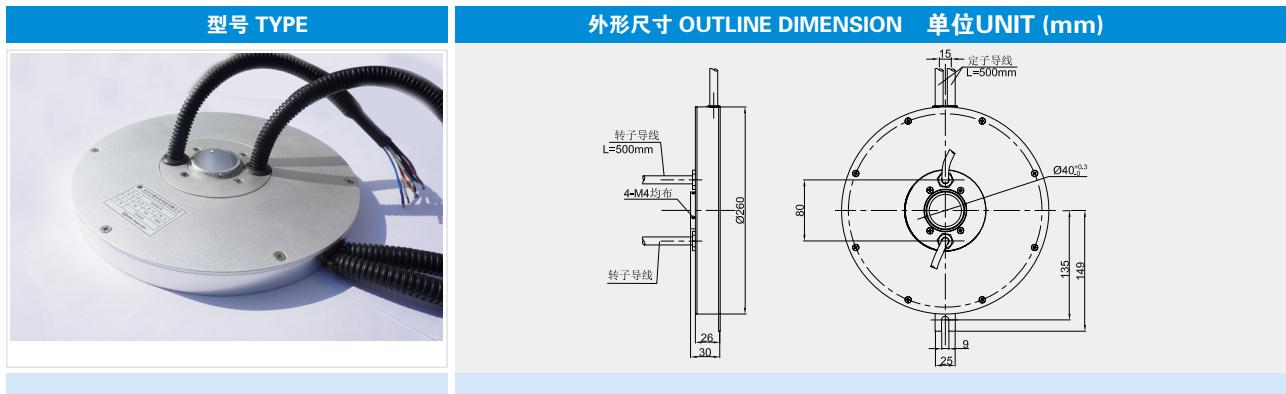
参数 Specification	数值 Values
路 数 NO. of Circuits	20
额定电流 Rated Current	15A/路, 3路; 5A/路, 17路 15A/ring (power), 3 rings; 5A/ring (signal), 17 rings
导线规格 Lead Size	镀锡导线、铁氟龙绝缘AWG16 tin plated, PTFE insulated or PVC
导线长度 Lead Length	500/1000mm或根据客户要求提供 500/1000mm (or as request)
绝缘体强度 Dielectric Strength	500VAC@50Hz, 60S
绝缘电阻 Insulation Resistance	$\geq 500M\Omega$ /500VDC

机械技术指标 Mechanical data

参数 Specification	数值 Values
额定转速 Rated Speed	0~250rpm
工作温度 Temperature Range	-20°C ~ +80°C
工作湿度 Operating Humidity	60%RH 或更高 60%RH or higher
接触材料 Contact Material	贵金属 Precious Metals
壳体材料 Housing Material	铝合金 Aluminum alloy
防护等级 Protection level	IP51

SRP040-20 盘式导电滑环

SRP040-20 Pancake Slip Ring



电气技术指标 Electrical data

参数 Specification	数值 Values
额定电压 Rated Voltage	220V
额定电流 Rated Current	10A
绝缘体强度 Dielectric Strength	≥500VAC@50Hz, 60s
绝缘电阻 Insulation Resistance	≥500MΩ/500VDC
动态电阻变化值 Electrical Noise	≤10mΩ

机械技术指标 Mechanical data

参数 Specification	数值 Values
工作速度 Operating Speed	0~100rpm
工作温度 Operating Temperature	-20°C ~ +80°C
工作湿度 Operating Humidity	≤95%RH
工作寿命 Estimated Life Cycle	≥200万转
接触材料 Contact Material	贵金属 Precious Metals
壳体材料 Housing Material	铝合金 Aluminium alloy
防护等级 Protection level	IP51

FORJ光纤旋转接头

Fiber Optic Rotary Joint

特点 Features

- 用于单模或多模系统的光电旋转连接
Optical and electrical rotary connection for single mode or multi mode systems
- 完全的双向旋转
Bidirectional
- 与现有的电气滑环设计相融合
Integrated FORJ with electrical slip ring
- 全封闭结构
Full closed structure
- 光传递信号，无泄密、无电磁干扰，可以远距离传输。
Light can transmit signal, no leakage, no electromagnetic interference, long-distance transmission.
- 体积小、密封性高，防护等级高。
Small size, good sealability, high degree of protection.
- 无接触、无摩擦、转速高、寿命长。
No contact, no friction, high speed, long life.
- 能为客户量身定制所需要的产品
Able to offer customized solutions

可选项 Options

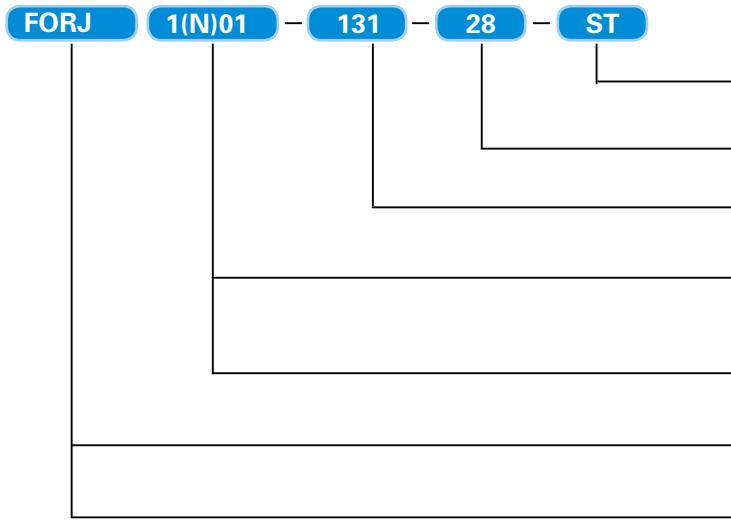
- 各种光纤尺寸和跳线长度
Various fiber types and pigtail lengths
- 光纤类型 Fiber type
- 光纤接头 Connector type
- 光纤长度 Fiber length
- 光通道数 Number of optical channels

典型应用 Typical Applications

- 长距离(>10km)传输 Long distance data transmission
- 高速数据传输 High speed data transmission

型号选用说明

Model explanation



ST代表接头
ST: Connector type

28代表光纤类型
28: Fiber type

131代表光纤工作波长为1310nm
131: Wavelength 1310nm

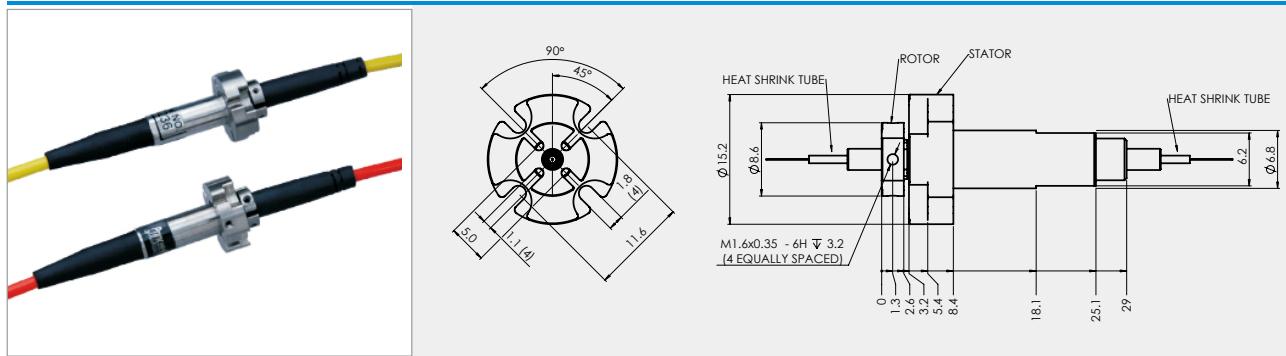
N代表通道数 channel
如: N=1 单通道 1 channel
N=2 两通道 2 channel

01代表01型
01: 01 Type

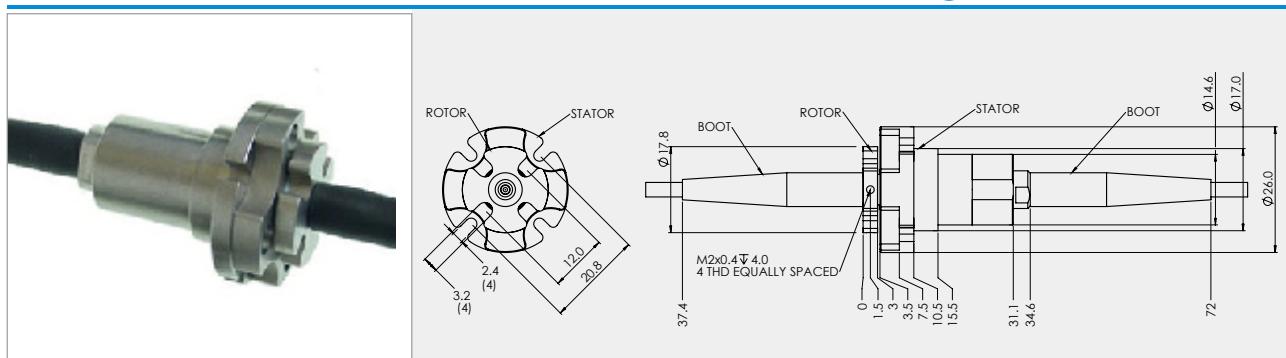
FO代表光纤
FO: Fiber optic

RJ代表旋转接头
RJ: Rotary joint

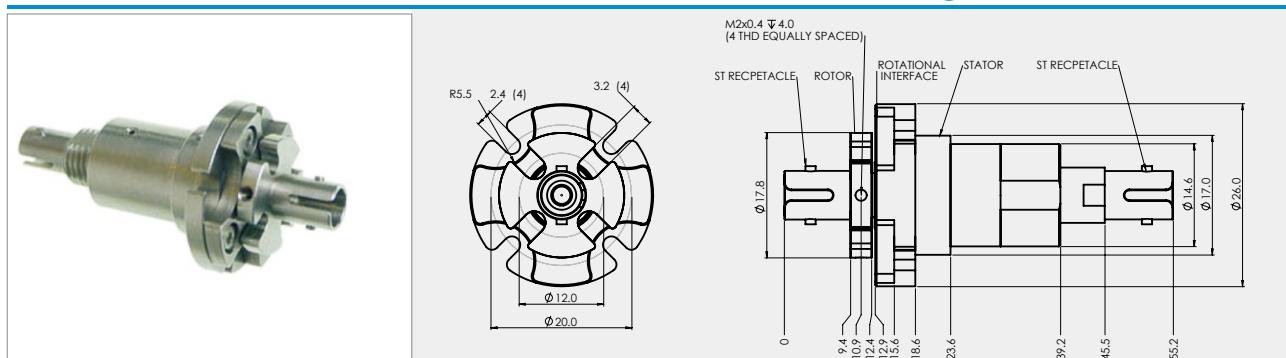
FORJ101微型光纤旋转接头 FORJ101 miniature size



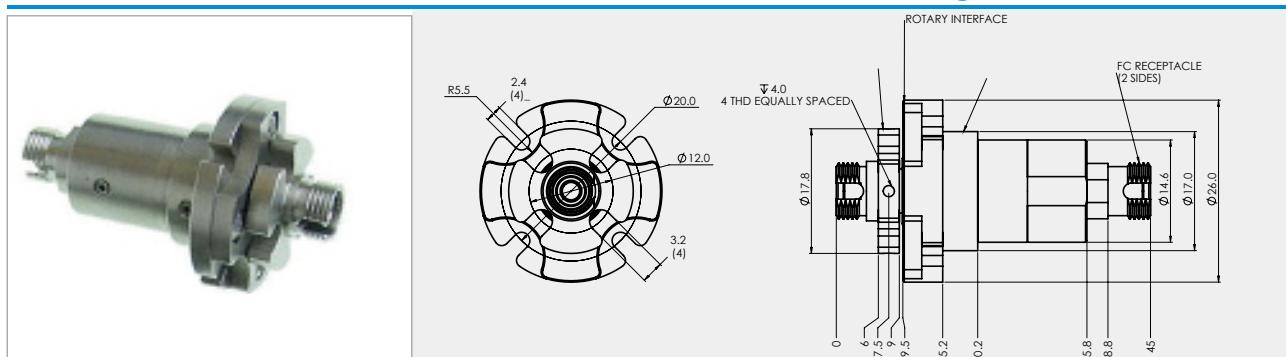
FORJ102单通道光纤旋转接头 FORJ102 Single Channel



FORJ103单通道光纤旋转接头 FORJ103 Single Channel



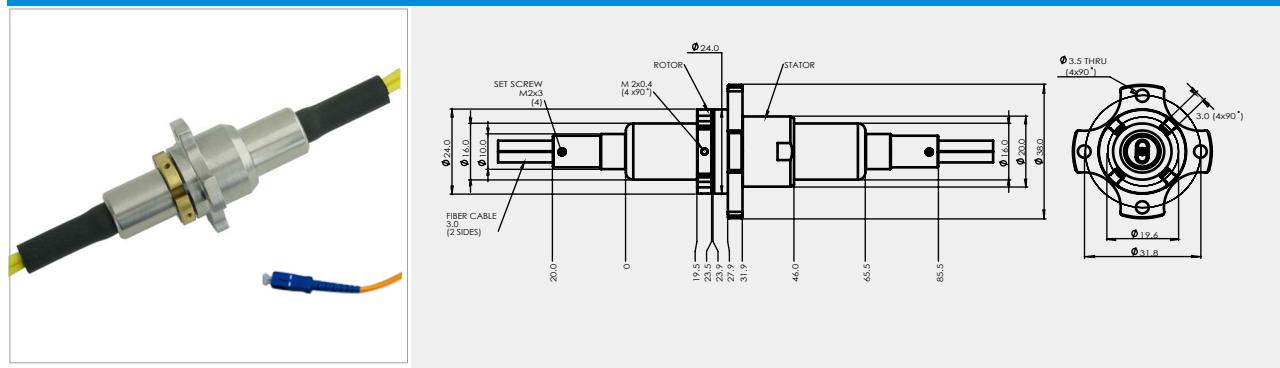
FORJ104单通道光纤旋转接头 FORJ104 Single Channel



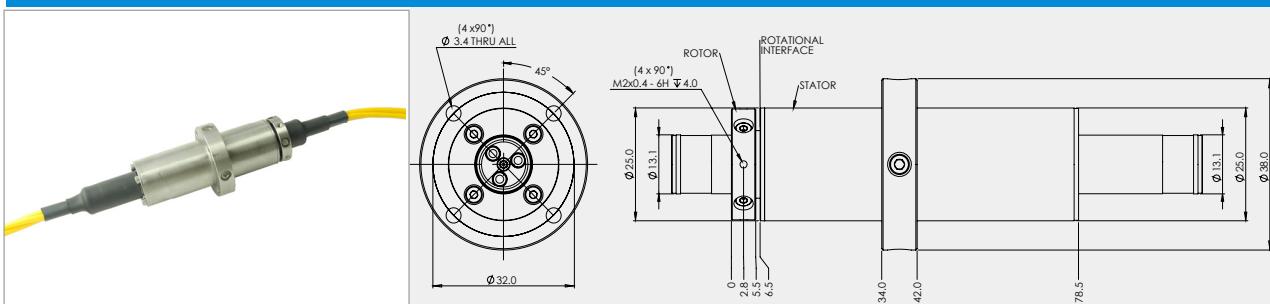
机械技术指标 Mechanical data

参数 Specification	数值 Values					
型号 Type	FORJ101	FORJ102	FORJ103	FORJ104		
波长范围 Wavelength range	1310 ~ 1550nm		850 ~ 1650 nm			
插损 Insertion loss	<2 dB (典型值typica : <0.5 dB)		<3dB			
插损偏差 Insertion loss ripple	< ± 0.5 dB (典型值typica: ± 0.25 dB)					
回损 Return loss	>40 dB (典型值typica: 45 dB, 23 C)		>30 dB			
最大转速 Maximum speed	2,000 rpm					
牵引力 Pulling strength	10 N (900 um 外护套buffer)					
启动扭矩 Start up torque	<0.01 Nm					
使用寿命 Estimated life cycle	200–400 million revolutions					
允许最大光功率 Optical power handling	23 dBm					
工作温度 Working temperature	-40 ~ 80°C					
封装型式 Package style	两端尾纤Pigtails on both ends					
壳体材料 Housing material	不锈钢Stainless Steel					
光纤类型 Fiber types	单模光纤 SM (3护套; 非标可选 2护套, 还可选铠甲光纤护套)		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 types	FC; LC;SC;ST; SMA (PC and APC)		ST座	FC座		
重量 Weight	10 g	≈50 g	≈50 g	≈50 g		
振动Vibration	MIL-STD-167-1A					
机械冲击Mechanical shock	MIL-STD-810G					
防护等级IP rating	IP67		IP68			

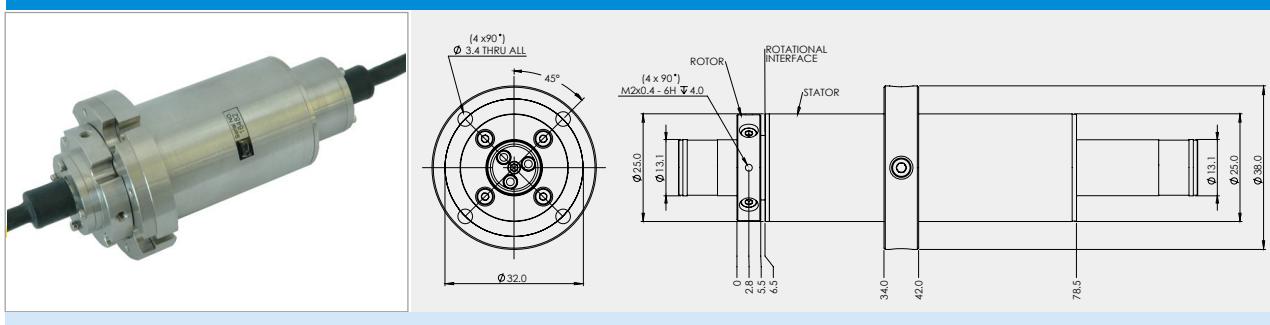
FORJN01微型光纤旋转接头 FORJN01 miniature size



FORJN02微型光纤旋转接头 FORJN02 miniature size



FORJN03微型光纤旋转接头 FORJN03 miniature size



机械技术指标 Mechanical data

参数 Specification	数值 Values		
型号 Type	FORJN01	FORJN02	FORJN03
波长范围 Wavelength range	850 ~ 1310 nm	850 ~ 1610nm	850 ~ 1550 nm
插损 Insertion loss	<4/6 dB(ch1/2)	<5dB	<5dB
插损偏差 Insertion loss ripple		< ± 1 dB	
回损 Return loss	>15 dB	>50dB	>45dB
最大转速 Maximum speed	100 rpm	400 rpm	200 rpm
牵引力 Pulling strength	10 N (900 um 外护套buffer)		
启动扭矩 Start up torque	<0.01 Nm		
使用寿命 Estimated life cycle	100 ~ 200 million revolutions		
允许最大光功率 Optical power handling	23 dBm		
工作温度 Working temperature	-42 ~ 72°C	-20 ~ 65°C	-20 ~ 65°C
存贮温度 Storage temperature	-45 ~ 75°C	-25 ~ 75°C	-20 ~ 85°C
封装型式 Package style	两端尾纤Pigtails on both ends		
壳体材料 Housing material	不锈钢Stainless Steel		
光纤类型 Fiber types	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 types	FC, SC, ST, SMA, or LC(and APC finishes)		
重量 Weight	≈100 g	≈500 g	≈1500 g
振动 Vibration	MIL-STD-167-1		
机械冲击 Mechanical shock	MIL-STD-810F		
防护等级 IP rating	IP 60	IP60、IP65 (长款)	IP60、IP65 (长款)

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杭州全盛机电科技有限公司

Hangzhou Prosper Mechanical & Electrical Technology Co., Ltd

地址：杭州经济技术开发区幸福南路115号下沙七格工业园6-7幢

ADD: Building 6-7, #115 Xingfu South Road, Hangzhou Economic & Development Area, Hangzhou, China

电话: 0571-86496782(国内销售总机)

传真: 0571-86496785

Tel: +86-571-86496782 (Overseas sales Dept.) Fax: +86-571-86496785

[Http://www.hzqs.com](http://www.hzqs.com) (国内)

邮箱: sales@hzqs.com (国内)

<http://www.slipring.com.cn> (Overseas)

Email: overseas@hzqs.com