



中国最大的精密滑环制造商



杭州全盛机电科技有限公司

Hangzhou Prosper Mechanical & Electrical Technology Co., Ltd.

PROSPER



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企业简介

BRIEF INTRODUCTION

杭州全盛机电科技有限公司成立于2001年，是中国最早专业从事精密导电滑环及控制杆研发、生产、销售的高科技企业，现拥有五十多项发明专利，填补了国内多项空白。公司位于杭州国家级经济技术开发区，场地面积6500余平方米，员工300余人。具有雄厚的研发实力、一流的生产设备及高科技的加工工艺，与国内著名的科研院所有着长期而广泛的合作，目前是中国精密导电滑环厂家中最具规模最具实力的企业。

公司生产的精密导电滑环广泛应用于安防、工厂自动化、电力、仪表、医疗、航空等民用和军用领域。长期为国内外众多知名厂家、科研院所、军工单位提供产品和技术服务，不仅可以提供通用导电滑环，还可以提供定制多通道、高电压、大电流、高转速、高频率以及集电、汽液、光纤通信于一体的复杂组合体滑环。

公司已通过欧盟CE认证、ROSH认证、国际MSDS认证及ISO9001:2008国际质量管理体系认证。产品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，并为全球知名厂家提供OEM和ODM。

Hangzhou Prosper, the earliest professional manufacturer of precision slip rings and joysticks, was established in the year of 2001, located in Hangzhou Economic & Development Area, with totally 300 employees and 6000 m2 plant area. At present, Prosper is the largest and most powerful slip ring factory in China, has more than fifty types of patented products which fill the gap in the domestic market. It has established extensive and long-term cooperation with many domestic research institutes, and owns a skilled management team, advanced technology, first-class production & inspection equipments, as well as a strict quality control system.

Prosper slip rings are widely adopted in civil and military fields ranging from CCTV security, industrial automation, electric power generation, measurement instruments, medical equipments to building construction. Besides the power & signal combined slip rings, it also supplies high frequency rotary joints and Hydraulic/pneumatic/encoder hybrid slip rings.

Hangzhou Prosper obtains certificates of CE, RoHS, MSDS and ISO 9001-2008. Products were supplied to more than thirty provinces in domestic market. It also has over ten distributors abroad, products exported to more than 50 countries. Hangzhou Prosper is also providing both OEM and ODM services for world famous brands and customers.



质量目标

客户满意率 $\geq 98\%$
客户投诉、退货率 $\leq 2\%$

质量方针

顾客为首、质量为先、追求卓越、全员参与

Quality Goal

Customer satisfaction rate $\geq 98\%$
Customer complaints & returns rate $\leq 2\%$

Quality Policy

Customer First, Quality Foremost, Pursuing Excellence, Total Involvement

生产设备 PRODUCTION EQUIPMENTS

公司投入巨资，
引进国内外先进的生产流水线和技术，
经过几十道工序的悉心打造，
并由实战经验丰富的制造专家全线跟踪，
全面体现国际水准。
完善的技术手段；
一流的检测设备；
优秀的人才，为顾客制造一流的产品。

Invests huge into production equipments
Adopts advanced production line and technology
Over ten production steps,
supervised by skilled production experts
Meets international standards
Sophisticated technology
First class inspection equipments
Quality products made by skilled employees



研发检测 RESEARCH & DEVELOPMENT

专业制造，十年来实践探索，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质量管理体系，选料严格，做工精细，真正引领行业潮流。

We established a R & D centre, equipped with moden softwares,hardwares and a skilled engineers team, which enable us to offer some customized solutions as request and develop new products to meet the constantly changing demands.



绝缘测试 Insulation Test



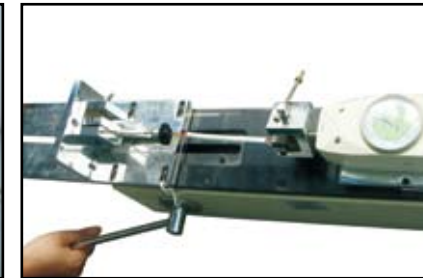
通道检测仪 Ring tester



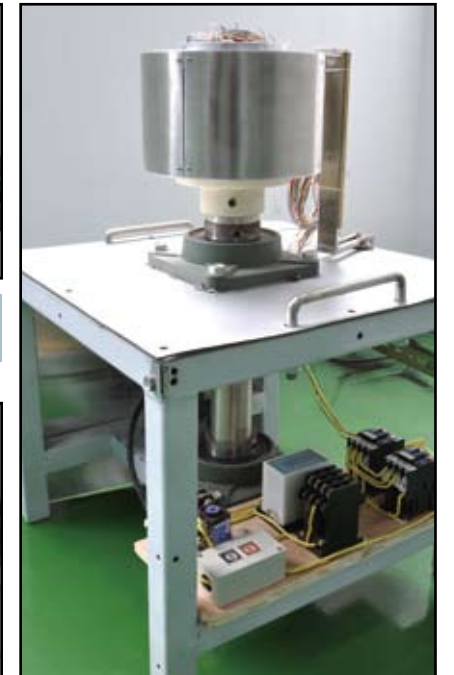
帽型产品寿命测试台 life-time test desk



逻辑分析仪 logic analyzer



拉力测试仪 Tensile Tester



过孔产品寿命测试台 life-time test desk



RoHS检测 RoHS Tester



视频测试 Vedio Test

导电滑环介绍 SLIPRING INTRODUCTION

导电滑环属于电接触滑动连接应用范畴，它又称集电环、旋转关节、旋转电气界面、滑环、集流环、汇流环、线圈、换向器、转接器，是实现两个相对转动机构的数据、信号及动力传递的精密输电装置。特别适合应用于无限制连续旋转，同时又需要实现固定位置和旋转位置之间的功率或数据传输的装置。

其由弹性材料——电刷、滑动触点表面材料——导电环、绝缘材料、粘结材料、组合支架、精密轴承、防尘罩及其他辅助件等组成。电刷采用具有良好导电性能的贵金属合金材料，呈“H”型与导电环环槽对称双接触，借助电刷的弹性压力与导电环环槽滑动接触来传递信号及电流。是各种精密转台、离心机和惯导设备的关键器件。可广泛应用于安防、工厂自动化、电力、金融、仪表、化工、冶金、医疗、航空、军事、船舶、运输、建筑等机电设备上。

技术手段

精密导电滑环属于高科技产品，一直以来被应用于尖端军事领域。

随着我国经济的不断发展，民用领域也越来越多的涉足使用此类产品，用于工业自动系统控制中。在国外先进发达国家，该产品已逐渐由军用产品转化为民用产品，近几年已实现了标准化、批量化生产。

我公司作为全国首家精密导电滑环生产商，积累历年设计和成批生产导电滑环的经验，以振兴中国民族工业为己任，填补了该领域空白，为更好地服务广大客户，我们衷心希望在该领域与国内外新老客户进行广泛的合作，使其产品更可靠、更优化，并提供各类技术咨询服务，也可以按照客户的需求量身定制或OEM生产您所需要的产品。

目前国际上采用的滑环技术分为以下三种：

一、复合电刷块技术

一般采用碳刷，铜刷，银/石墨/二硫化钼的刷块等形式

二、采用贵金属合金单丝，如AuNi9等

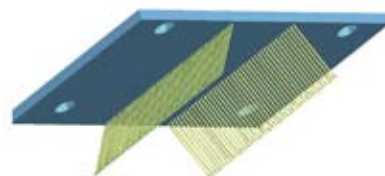
三、纤维刷技术

纤维刷是指一种特殊的滑行电气接触设计。纤维刷简单的说就是将单独的金属纤维（线）进行校准并装进一个金属管里，如下面的图。在这个悬臂设计中，纤维刷束是散状的，无束缚的一端依附在环道表面的槽里。

杭州全盛的工程技术人员能很好地集合以上三种技术各自特点，为客户量身定制所需要的导电滑环产品。



(1)



(2)



(3)

The slip ring can be used in any electro-mechanical system that requires unrestrained, continuous rotation while transmitting power and /or data from a stationary to a rotating structure. The slip ring is also called a rotary electrical interface, commutator, collector, swivel or an electrical rotary joint.

The slip ring is made of brushes, conductive rings, insulation materials, binding materials, supporting frame, precision bearings and housing etc. The brushes which are made of precious metal are in two-point contact to the ring.

The slip rings are used in wide applications from security system, automotive system and inspection equipments to wind turbines, detecting equipments and medical equipments etc.

Technologies

Precision slip ring as a high-tech product has been used in top military field in the past for a long time.

With the continuous development of the economy, slip rings began to be used in civil field, mainly in industrial automotive systems. In foreign developed countries, they have gradually been shafted from military to civil use, and under standardization & volume production in recent years.

As the first slip ring manufacturer in China, Prosper has accumulated years' experiences in slip ring design and volume production. It stopped the history when the slip rings for civil use in China were all imported from foreign manufacturers.

At present, the technologies used in slip rings can be divided into following three categories.

1、Complex block brush

Carbon block, copper block, silver block, graphite block and Molybdenum disulfide block etc.

2、Single-wire brush made of precious metal such as AuNi9

3、Fiber brush

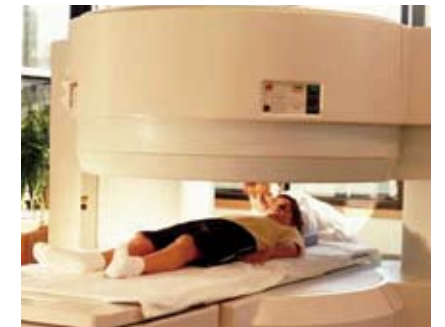
The fiber brush is a bundle of metal wires fixed into a metal tube. The free end of the brush is contacted to the groove on the conductive ring.

Engineers in Prosper well integrate above technologies to design slip rings as per customers' request.

产品应用 TYPICAL APPLICATIONS



导电滑环广泛应用于包装机械、旋转门、雷达、机器人、医疗设备、坦克、风力发电、起重机械、单晶炉、高速球、电缆卷筒等民用和军用领域。



Slip ring is widely used on packaging machinery, revolving door, medical device, tank, radar, wind turbine, crane, crystal grower, high speed dome and cable reel etc.



技术支持

TECHNICAL SUPPORT

Q: 为什么要选择滑环?

A: 在电气设计过程中, 机械部分360度无限制连续旋转时, 导线需连接到旋转部件上去, 电气工程师就会遇到导线缠绕问题, 这个时候, 他需要一个电旋转连接器, 俗称电滑环来实现传输动力和信号的旋转连接。

Q: 滑环结构种类有哪些?

A: 滑环结构分为圆柱式的、圆盘式的。圆柱式滑环的环道是沿着圆柱的轴心排列的, 就象螺栓上的螺纹一样, 如我们的SRC, SRH, SRT系列产品; 圆盘式滑环的环道是同心圆, 就象在唱机唱片上的槽一样, 如我们的SRP系列产品。目前大部分客户都采用圆柱式滑环, 除非受到高度限制, 才会选用圆盘式滑环。

Q: 圆柱式滑环结构种类有哪些?

A: 根据安装需要, 我们一般会提供轴式的、带通孔式的。

- 1、熟悉滑环的客户可以按我们提供的产品目录选用适合您的产品。如果目录中没有的, 请提供您的技术要求, 我们工程技术人员会为您专门设计。
- 2、首次使用滑环的客户, 请联系我们工程技术人员, 他们会为您解答任何相关的技术问题, 提供专业的技术支持。

Q: 滑环的哪一部份是转子? 哪一部份是定子?

A: 一般来说, 滑环内圈部分是转子, 外圈部分是定子。滑环是双向转动的, 是外圈转动还是内圈转动没有什么区别, 至于外圈作转子还是内圈作转子, 取决于您的滑环安装方式。

Q: 选择滑环时需提供哪些重要的技术参数?

A: 当选择滑环时需考虑以下重要性能规格:

- 1、旋转时的工作速度 (rpm)
- 2、通道数, 也称为环道数, 即为您所需使用的单根导线根数 (不含电缆)
- 3、动力电路及信号电路的额定电压, 额定电流。
- 4、信号的类型及参数 (如: 模拟信号、数字信号及信号频率、传输速率等)
- 5、工作温度。
- 6、防护等级 (即密封要求)

Q: 我们需要的滑环既要传输动力电, 又要传输信号, 你们能提供吗?

A: 从我们的产品目录中, 您可以看到我们许多产品都能实现动力和信号组合在一起, 对于有特殊要求的信号, 我们可以为您量身定制。

Q: 精密导电滑环结构紧凑, 你们有信号抗干扰措施吗?

A: 精密导电滑环是一个空间小、走线相当密集的部件, 各种信号都在滑环内集中, 因此各信号间的互感、互容效应较大。因为滑刷和环道接触处无法屏蔽, 其电容耦合尤其严重。

我公司采用专有技术, 从滑环结构设计和滑环内部布线设计上综合考虑, 完全能避免动力和信号间, 信号与信号间的干扰问题, 并且能防止外界对滑环内部的电磁干扰。

Q: 现在的信号种类比较多, 要求更加复杂, 你们的滑环能传输哪些信号?

A: 我们的滑环可以传输目前流行的所有中低频率信号, 总线控制信号等。

如Inter Bus, Can-Bus, Profibus, RS422, RS485, PLC控制, 数字/模拟视频, 数字音频, 千兆以太网, 温度、重量传感器信号等。

Q: 我们需要电滑环中含有一或二路高频信号, 你们能做吗?

A: 可以做到。我们已有产品成功应用在雷达上。具体要求请联系我们的工程师, 他们会为您提供专业服务。

Q: 你们能提供高速、高容量的信号传输的滑环吗?

A: 可以。在设备上一般信号传输都是短距离的。我们与荷兰某公司合作开发了一款电和光纤组合滑环, 能传输大容量的信号, 而且价格非常低廉, 现已批量生产。

Q: 你们能提供军用滑环吗?

A: 我们的很多滑环都已应用在国防军事领域。

如侦察飞机设备, 防空雷达, 火炮系统, 预警天线, 导弹测试系统上。

Q: Why slip ring is applied?

In electrical design, if the mechanical part is under 360 degrees unrestrained continuous rotation, and the wires are to be connected to the rotating part, the electrical engineer needs an electrical rotary joint to avoid wires twisting. This electrical rotary joint is generally called a slip ring.

Q: The structure of the slip rings?

We provide two types: barrel type and pancake type. The rings on a barrel type slip ring are distributed along the axis, like the thread on a screw bolt, such as our SRC / SRH / SRT series. The rings on a pancake type slip ring are concentric, like grooves on a phonograph record, such as our SRP series. Most customers use barrel type, but pancake type is used when they have limit for slip ring height.

Q: The structure of the barrel type slip ring?

As per the installation ways, we generally provide the shaft type and through-bore type.

1. Customer who is familiar with slip ring can select suitable model from our catalogs. For any special requirement for which no solution available in the catalogs, please provide us your technical requirements for special solution from our engineers.
2. if it is your first time to use slip ring, please feel free to contact our engineers for support.

Q: Which is rotor? Which is stator?

Generally speaking, the inner part is rotor, the outside part is stator. But the rotation of slip ring can be bidirectional, so there is no difference either the outside part or the inner part is rotating. Which part to be used as rotor is determined by the way of installation.

Q: What technical data should be provided for choosing the slip ring model?

Following specifications must be considered for choosing slip ring model:

1. Operating speed (RPM)
2. Number of channels (number of circuits)
3. Rated voltage & current for power rings and signal rings
4. The signal type and related parameters (very important)
5. Operating temperature
6. IP class (sealing requirements)

Q: We need a slip ring which can transmit both power and signal, can you provide?

Please refer to our catalogs, you will find many models for such requirement.

Q: Do you have any anti-interference measure?

We adopt unique technology on the design and internal wiring of the slip rings to completely prevent the interference between power and signal circuit, or between signal circuits, and prevent any interference from outside.

Q: Which signals can be transmitted by your slip ring?

Our slip rings can transmit low and middle level frequency signals, bus signals etc. Such as Inter Bus, Can-Bus, Profibus, RS422, RS485, PLC Control, Digital or Analogue Video, Digital Audio, Ethernet, Temperature or Weight sensors signals etc.

Q: We need one or two channels which can transmit high frequency signals in the slip ring, can you deliver?

Yes, we have successfully delivered such slip ring to a radar system.

Q: Can you deliver slip rings for high speed and big volume data transmission?

Yes. The distance of the signal transmission is usually short. We have developed an optical hybrid slip ring cooperating with a Netherland company. This slip ring can transmit signals of big volume, and is already under mass production. Excellent quality with competitive price!

Q: Can you supply slip ring for military application?

Our slip ring has been widely used in Military application, for example, reconnaissance aircraft, detecting radar, cannon system, radar antenna and missile' s ATS.

SRC 帽型滑环

SRC Capsule Slip Ring



可选项 Optionals

- 环路数 Number of rings
- 外壳材料 Housing material
- 防护等级 IP class
- 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
- 放盐雾 Salt mist proof
- 工作温度 Operating temperature
- 外壳可反装 Housing can be mounted upside down

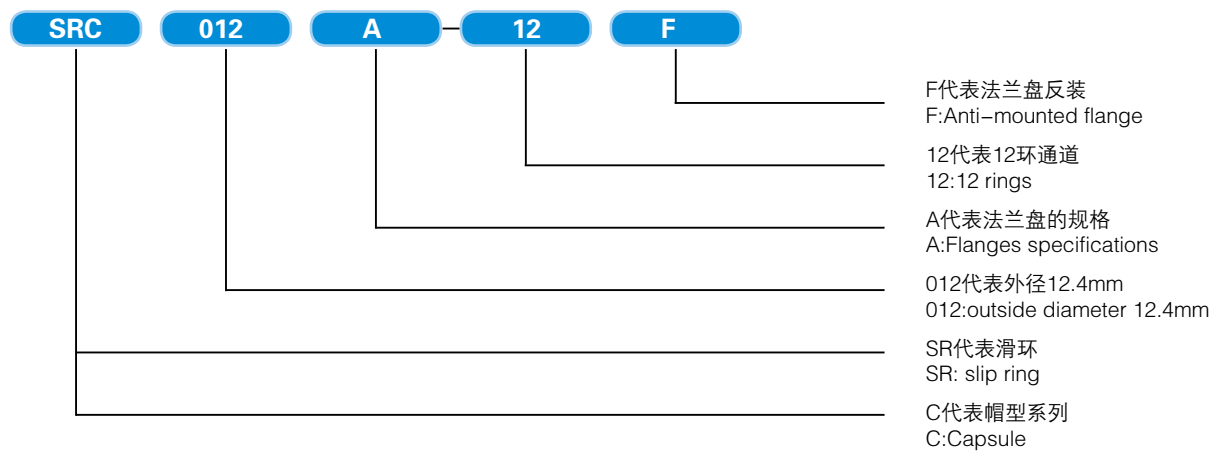
特点 Features

- 完全满足360度无限制旋转的图像及数据传输
Continuous transmission of signal and/or data under 360° unrestrained rotation
- 工作噪音小, 寿命长
Less noise, long life
- 小转动力矩, 运转平滑
Low torque, smooth rotation
- 接触电阻极低<1mΩ
Electrical Noise<1mΩ
- 体积小, 结构紧凑
Small compact construction

典型应用 Typical Applications

- 闭路监控云台 CCTV pedestal
- 机械手 Automatic arm
- 医疗卫生设备 Medical equipments
- 旋转工作平台 Rotary index table
- 流水线生产、工业控制设备
Production line, industry process equipments

型号选用说明 Model explanation



SRC012系列 SRC012 Series

型号 TYPE

标准型 Standard Type SRC012

外形尺寸 OUTLINE DIMENSION 单位(UNIT) mm

MODEL	L(mm)
SRC012-6	14
SRC012-12	19.5

型号 TYPE

SRC012-6(TD)

外形尺寸 OUTLINE DIMENSION 单位(UNIT) mm

MODEL	L(mm)
SRC012-4	15.6
SRC012-6	15.6
SRC012-8(KS)	18.2

型号 TYPE

A型 ("A"Type) SRC012A

外形尺寸 OUTLINE DIMENSION 单位(UNIT) mm

MODEL	L(mm)
SRC012A-6	14
SRC012A-12	19.5

型号 TYPE

A1型 ("A1"Type) SRC012A1

外形尺寸 OUTLINE DIMENSION 单位(UNIT) mm

MODEL	L(mm)
SRC012A1-6	14
SRC012A1-12	19.5


型号 TYPE

A2型 ("A2"Type) SRC012A2

外形尺寸 OUTLINE DIMENSION 单位(UNIT) mm

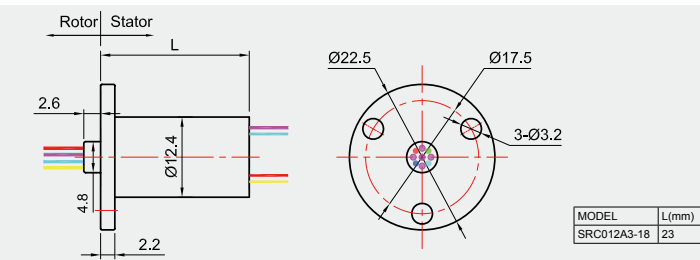
MODEL	L(mm)
SRC012A2-6	14
SRC012A2-12	19.5

型号 TYPE




A3型("A3"Type) SRC012A3

外形尺寸 OUTLINE DIMENSION 单位(UNIT) mm



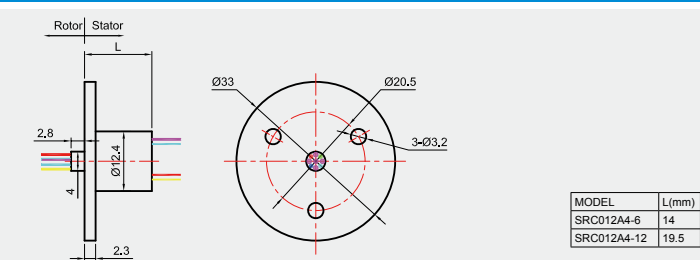
MODEL	L(mm)
SRC012A3-18	23

型号 TYPE




A4型("A4"Type) SRC012A4

外形尺寸 OUTLINE DIMENSION 单位(UNIT) mm



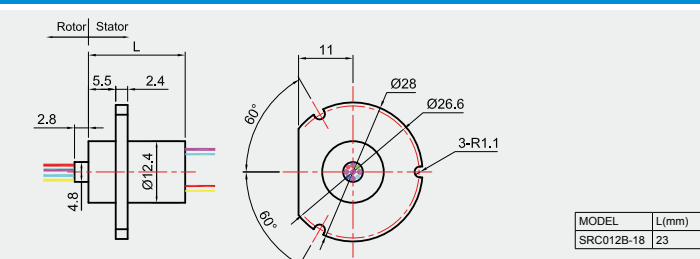
MODEL	L(mm)
SRC012A4-6	14
SRC012A4-12	19.5

型号 TYPE




B型("B"Type) SRC012B

外形尺寸 OUTLINE DIMENSION 单位(UNIT) mm



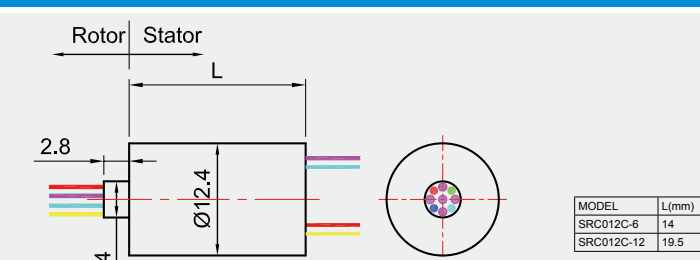
MODEL	L(mm)
SRC012B-18	23

型号 TYPE




C型 ("C"Type) SRC012C

外形尺寸 OUTLINE DIMENSION 单位(UNIT) mm



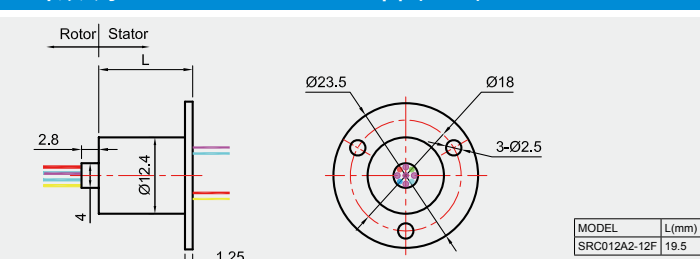
MODEL	L(mm)
SRC012C-6	14
SRC012C-12	19.5

型号 TYPE



A2法兰反装型 SRC012A2-12F

外形尺寸 OUTLINE DIMENSION 单位(UNIT) mm



MODEL	L(mm)
SRC012A2-12F	19.5

电气技术指标 Electrical data

参数 Specification	数值 Values
额定电压 Rated Voltage	240VDC/240VAC
额定电流 Rated Current	标准每环为2A 2A/ring
导线规格 Lead Size	AWG28 彩色镀银铁氟龙绝缘 AWG28, 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	<0.01Ω

机械技术指标 Mechanical data

参数 Specification	数值 Values
工作速度 Operating Speed	0~300rpm
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
壳体材料 Housing Material	工程塑料 Engineering Plastics

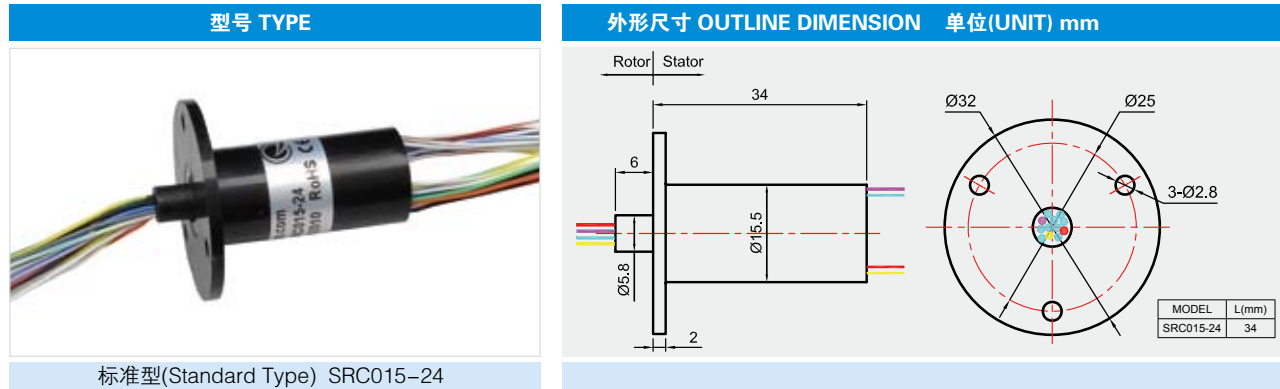
规格表 Specification List

型号 Type	环数 NO. of Rings	长度 L	中轴外径 D
SRC012-6	6	14	Φ4
SRC012-8	8	18.2	Φ4.8
SRC012-12	12	19.5	Φ4
SRC012-15	15	23	Φ4.8
SRC012-18	18	23	Φ4.8

导线色码表 Lead Color Code

SRC012-6	1. 红RED	2. 黄YEL	3. 黑BLK	4. 蓝BLU	5. 绿GRN	6. 白WHT
SRC012-8	1. 黑BLK	2. 棕BRN	3. 红RED	4. 橙ORN	5. 黄YEL	6. 绿GRN
SRC012-12	1. 红RED	2. 绿GRN	3. 黄YEL	4. 紫PUP	5. 灰GRY	6. 黑BLK
SRC012-15	7. 蓝BLU	8. 深蓝DBLU	9. 棕BRN	10. 橙ORN	11. 白WHT	12. 土黄KHK
SRC012-18	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			
	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-BRN

SRC015系列 SRC015 Series



标准型(Standard Type) SRC015-24

电气技术指标 Electrical data

参数 Specification	数值 Values
额定电压 Rated Voltage	240VDC/240VAC
额定电流 Rated Current	标准每环为2A 2A/ring
导线规格 Lead Size	AWG28 彩色镀银铁氟龙绝缘 AWG28, 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	< 0.01Ω

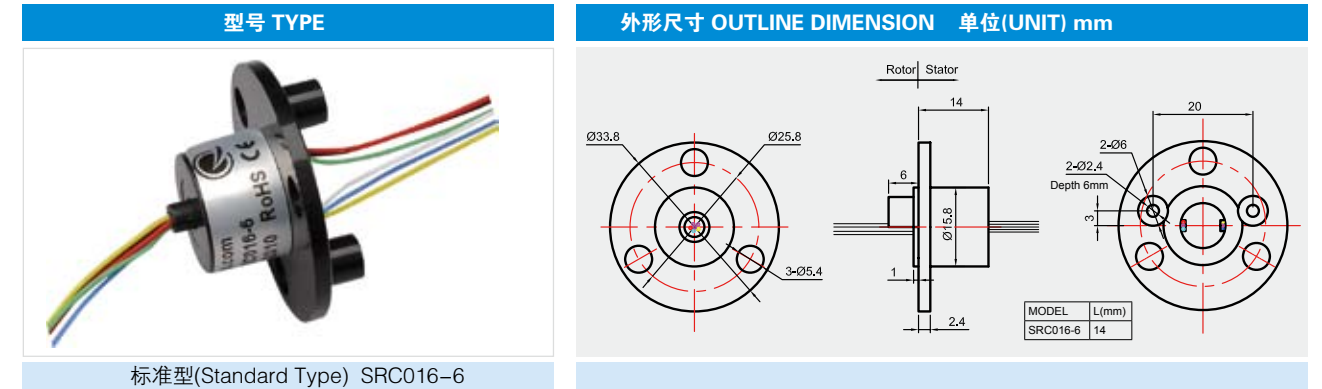
机械技术指标 Mechanical data

参数 Specification	数值 Values
工作速度 Operating Speed	0~300rpm
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

导线色码表 Lead Color Code

SRC015-24	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

SRC016系列 SRC016 Series



标准型(Standard Type) SRC016-6

电气技术指标 Electrical data

参数 Specification	数值 Values
额定电压 Rated Voltage	240VDC/240VAC
额定电流 Rated Current	标准每环为2A 2A/ring
导线规格 Lead Size	AWG28 彩色镀银铁氟龙绝缘 AWG28, 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	< 0.01Ω

机械技术指标 Mechanical data

参数 Specification	数值 Values
工作速度 Operating Speed	0~300rpm
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

导线色码表 Lead Color Code

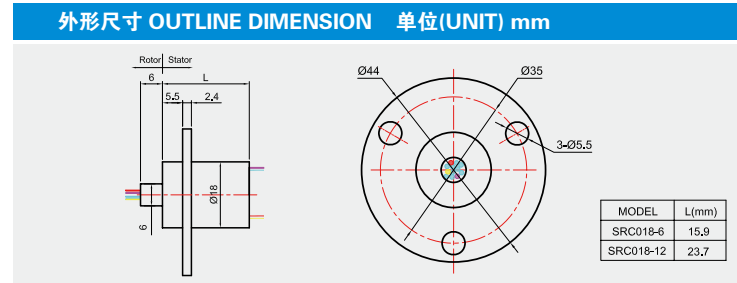
SRC016-6	1. 红RED	2. 黄YEL	3. 黑BLK	4. 蓝BLU	5. 绿GRN	6. 白WHT
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SRC018系列

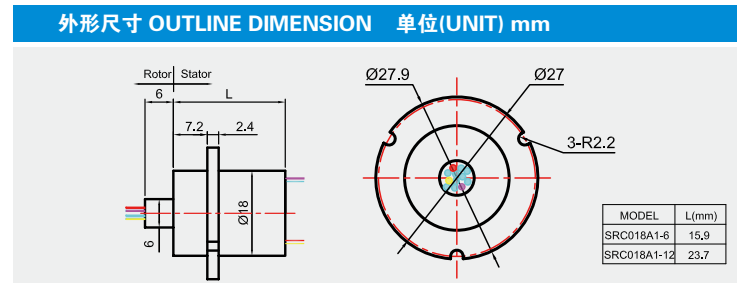
SRC018 Series



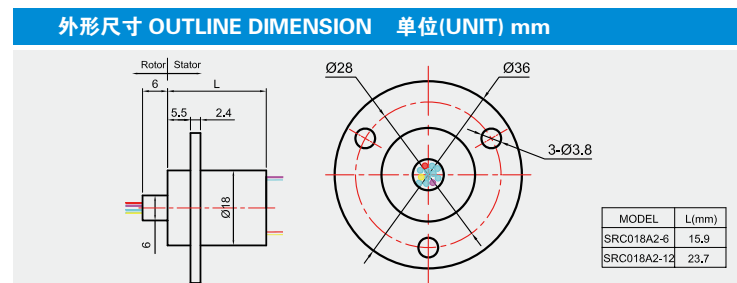
标准型(Standard Type) SRC018



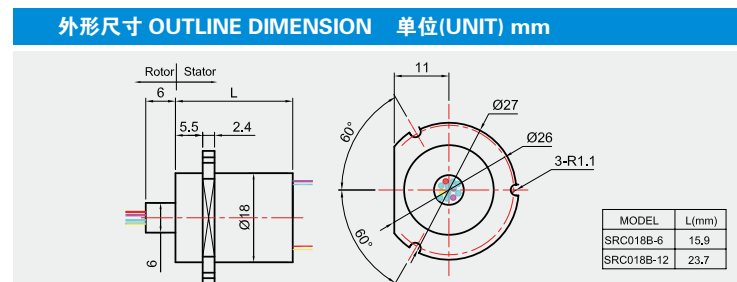
A1型("A1"Type) SRC018A1



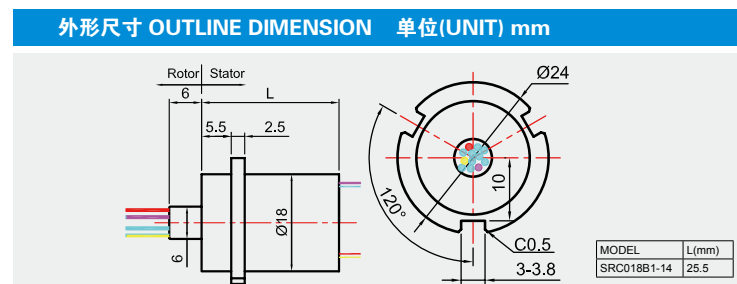
A2型("A2"Type) SRC018A2



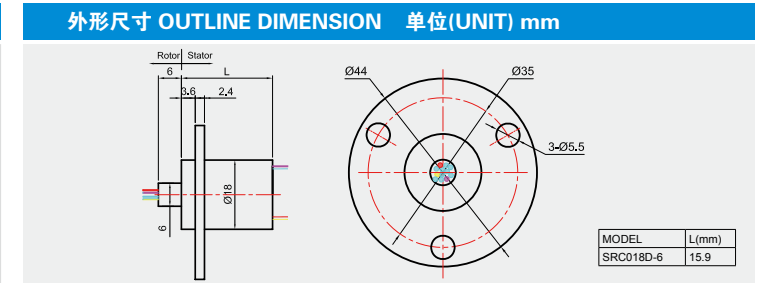
B型("B"Type) SRC018B



SRC018B1-14



SRC018D-6



电气技术指标 Electrical data

参数 Specification	数值 Values
额定电压 Rated Voltage	240VDC/240VAC
额定电流 Rated Current	标准每环为2A 2A/ring
导线规格 Lead Size	AWG28 彩色镀银铁氟龙绝缘 AWG28, 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	< 0.01Ω

机械技术指标 Mechanical data

参数 Specification	数值 Values
工作速度 Operating Speed	0~300rpm
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

规格表 Specification List

型号 Type	环数 NO. of Rings	长度 L	中轴外径 D
SRC018-6	6	15.9	Φ6
SRC018-12	12	23.7	Φ6
SRC018-14	14	25.5	Φ6

导线色码表 Lead Color Code

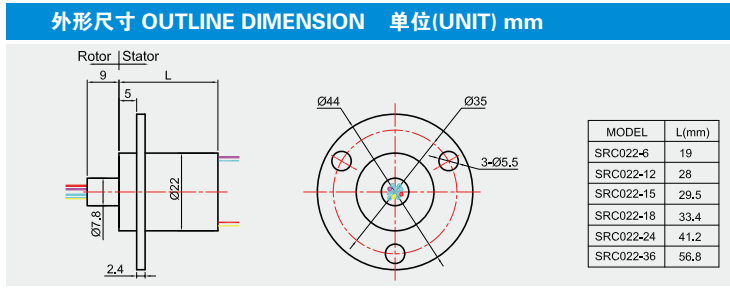
SRC018-6	1. 红 RED	2. 黄 YEL	3. 黑 BLK	4. 蓝 BLU	5. 绿 GRN	6. 白 WHT
	SRC018-12	1. 红 RED	2. 绿 GRN	3. 黄 YEL	4. 紫 PUP	5. 灰 GRY
SRC018-14		7. 蓝 BLU	8. 深蓝 DBLU	9. 棕 BRN	10. 橙 ORN	11. 白 WHT
	SRC018-14	1. 红 RED	2. 绿 GRN	3. 黄 YEL	4. 紫 PUP	5. 灰 GRY
SRC018-14		7. 深蓝 DBLU	8. 棕 BRN	9. 橙 ORN	10. 白 WHT	
	SRC018-14	11. 白-红 WHT-RED	12. 白-黑 WHT-BLK	13. 白-蓝 WHT-BLU	14. 白-紫 WHT-PUP	

SRC022系列
SRC022 Series



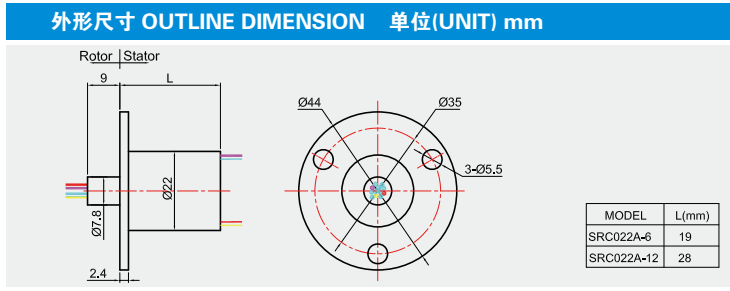
型号 TYPE

标准型(Standard Type) SRC022



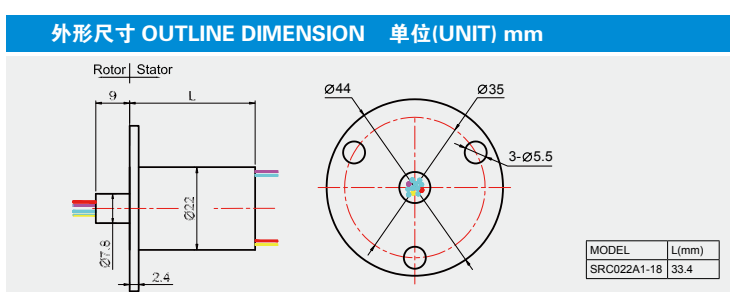
型号 TYPE

A型 ("A"Type) SRC022A



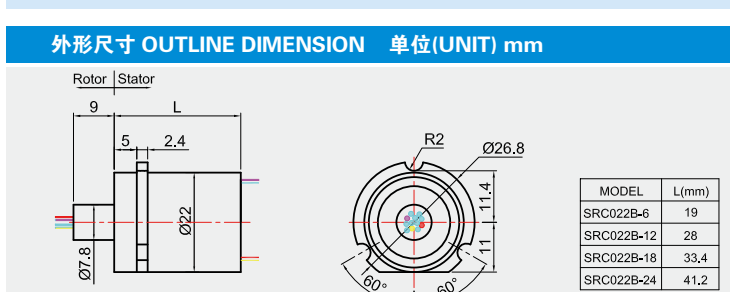
型号 TYPE

A1型 ("A1"Type) SRC022A1-18



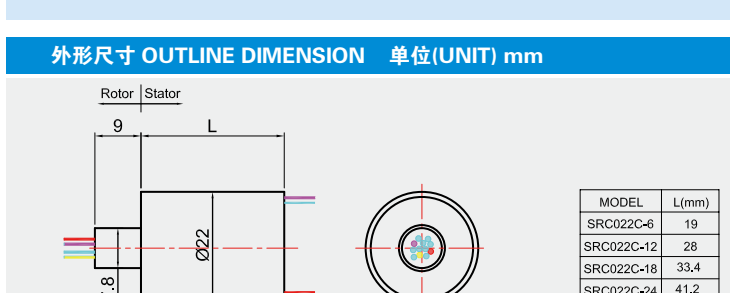
型号 TYPE

B型 ("B"Type) SRC022B



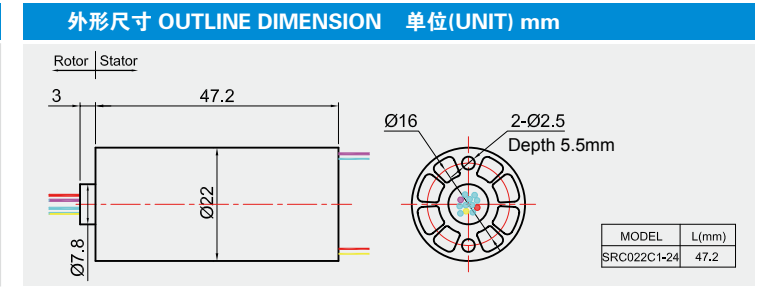
型号 TYPE

C型 ("C"Type) SRC022C



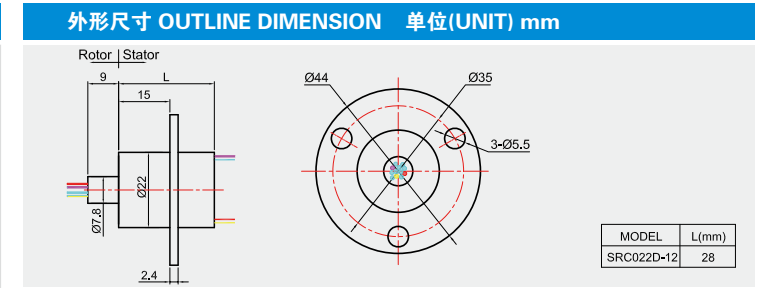
型号 TYPE

C1型 ("C1"Type) SRC022C1



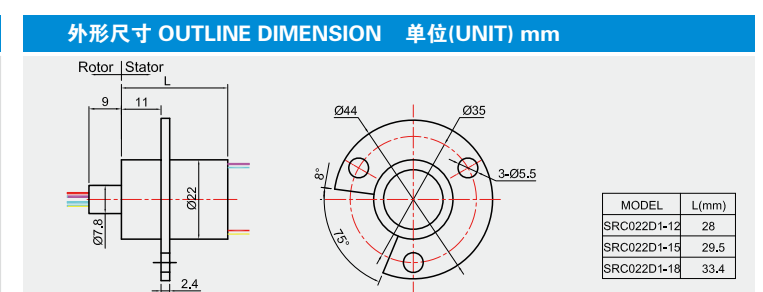
型号 TYPE

D型 ("D"Type) SRC022D



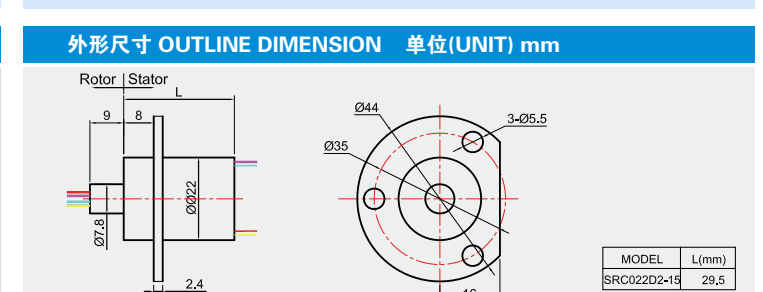
型号 TYPE

D1型 ("D1"Type) SRC022D1



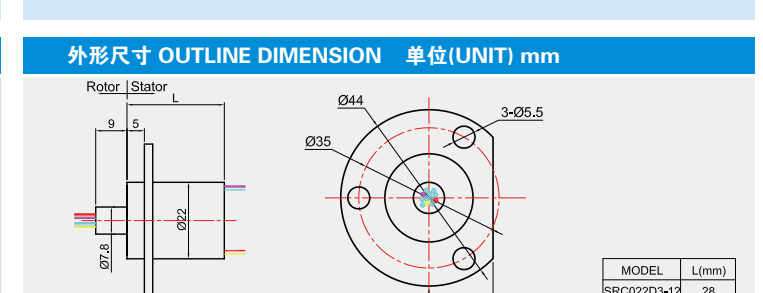
型号 TYPE

D2型 ("D2"Type) SRC022D2




型号 TYPE

D3型 ("D3"Type) SRC022D3

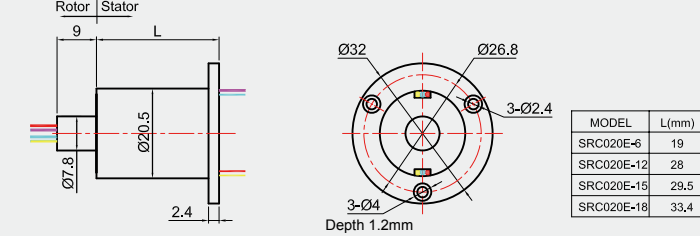


型号 TYPE




E型 ("E"Type) SRC020E

外形尺寸 OUTLINE DIMENSION 单位(UNIT) mm



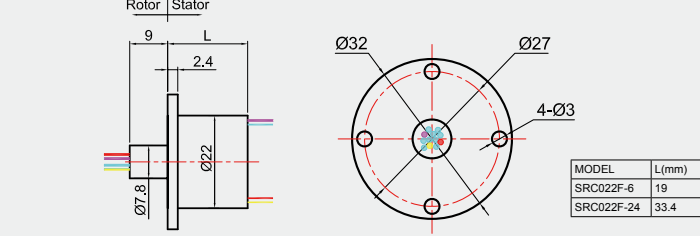
MODEL	L(mm)
SRC020E-6	19
SRC020E-12	28
SRC020E-15	29.5
SRC020E-18	33.4

型号 TYPE



F型 ("F"Type) SRC022F

外形尺寸 OUTLINE DIMENSION 单位(UNIT) mm



MODEL	L(mm)
SRC022F-6	19
SRC022F-24	33.4

电气技术指标 Electrical data

参数 Specification	数值 Values
额定电压 Rated Voltage	240VDC/240VAC
额定电流 Rated Current	标准每环为2A 2A/ring
导线规格 Lead Size	AWG26 彩色镀银铁氟龙绝缘 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	< 0.01 Ω

机械技术指标 Mechanical data

参数 Specification	数值 Values
工作速度 Operating Speed	0~300rpm
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


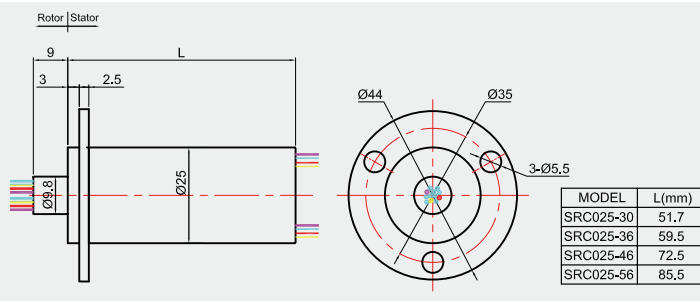
规格表 Specification List

型号 Type	环数 NO. of Rings	额定电流 Rated Current			长度 "L"
		2	6	10	
SRC022-6	6	6			19
SRC022-7	7	7			19
SRC022-12	12	12			28
SRC022-12-2P/2S	4	2	2		28
SRC022-15	15	15			29.5
SRC022-18	18	18			33.4
SRC022-18-3P	3			3	33.4
SRC022-24	24	24			41.2
SRC022-24-4P/6S	10	6	4		41.2
SRC022-36	36	36			56.8

导线色码表 Lead Color Code

SRC022-6	1. 红RED	2. 黄YEL	3. 黑BLK	4. 蓝BLU	5. 绿GRN	6. 白WHT
SRC022-6 (短轴 Short axis)	1. 白WHT	2. 棕BRN	3. 黄YEL	4. 橙ORN	5. 黑BLK	6. 红RED
SRC022-8	1. 红RED	2. 绿GRN	3. 黄YEL	4. 紫PUP	5. 黑BLK	6. 蓝BLU
	7. 棕BRN	8. 橙ORN				
SRC022-12	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
SRC022-15	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			
SRC022-18	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
SRC022-24	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
	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	11/12. 黑BLK
SRC022-36	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

SRC025系列 SRC025 Series

型号 TYPE	外形尺寸 OUTLINE DIMENSION 单位(UNIT) mm										
	 <table border="1"> <thead> <tr> <th>MODEL</th> <th>L(mm)</th> </tr> </thead> <tbody> <tr> <td>SRC025-30</td> <td>51.7</td> </tr> <tr> <td>SRC025-36</td> <td>59.5</td> </tr> <tr> <td>SRC025-46</td> <td>72.5</td> </tr> <tr> <td>SRC025-56</td> <td>85.5</td> </tr> </tbody> </table>	MODEL	L(mm)	SRC025-30	51.7	SRC025-36	59.5	SRC025-46	72.5	SRC025-56	85.5
MODEL	L(mm)										
SRC025-30	51.7										
SRC025-36	59.5										
SRC025-46	72.5										
SRC025-56	85.5										
标准型(Standard Type) SRC025-30											

机械技术指标 Mechanical data

参数 Specification	数值 Values
工作速度 Operating Speed	0~300rpm
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

规格表 Specification List

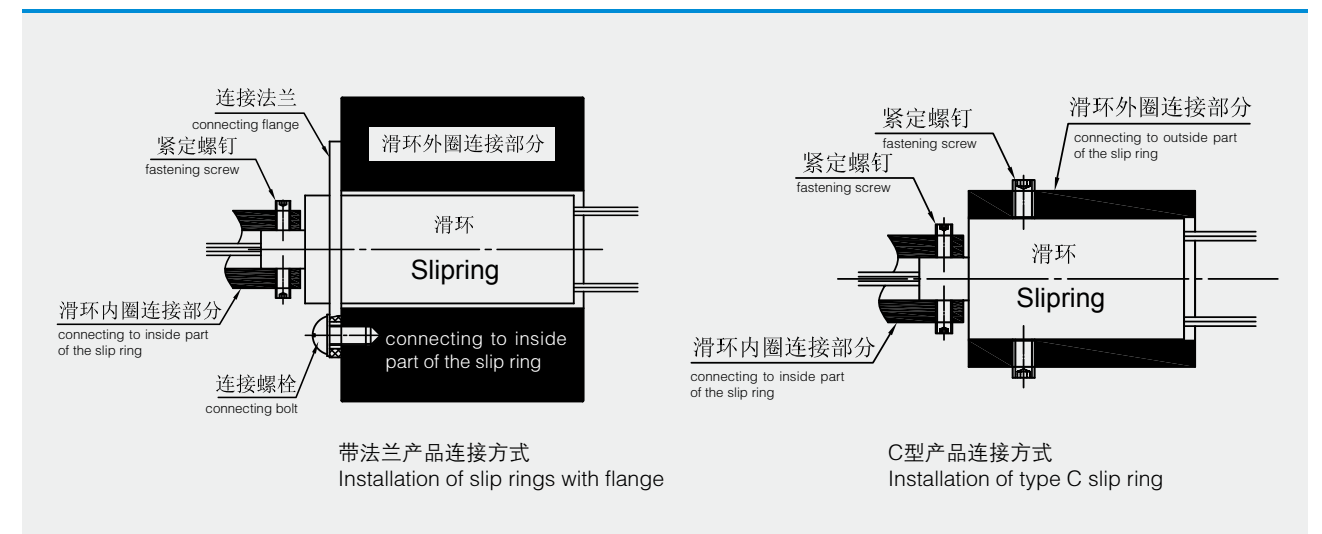
型号 Type	环数 NO. of Rings	额定电流 (A) Rated Current Amps			信号RG178或RG179 (RG178 or RG179)	尺寸 Size 外径 x 长度 (OD x L)
		2	6	10		
SRC025-30	30	30				Φ25 x 51.7
SRC025-30-4P/18S	22	18	4			Φ25 x 51.7
SRC025-30-3P/15S	18	15		3		Φ25 x 51.7
SRC025-36	36	36				Φ25 x 59.5
SRC025-36-4P/24S	28	24	4			Φ25 x 59.5
SRC025-36-4P/20S/2RG178	26	20	4	2		Φ25 x 59.5
SRC025-46	46	46				Φ25 x 72.5
SRC025-46-4P/34S	38	34	4			Φ25 x 72.5
SRC025-46-4P/30S/2RG178	36	30	4	2		Φ25 x 72.5
SRC025-56	56	56				Φ25 x 85.5
SRC025-56-4P/44S	48	44	4			Φ25 x 85.5
SRC025-56-4P/40S/2RG178	46	40	4	2		Φ25 x 85.5

- 标准2A/环, 2环合并得4A, 3环合并得6A或按客户要求
Standard 2A/ring. 2 rings combined for 4A, 3rings combined for 6A or other current as request
- SRC025 系列可以用型号50Ω RG178视频线或75Ω RG179视频线
Able to integrate RG178(50Ω) or RG179(75Ω) coaxial cable
- 外壳法兰可以按客户要求
Other flange dimension as request

电气技术指标 Electrical data

参数 Specification	数值 Values
额定电压 Rated Voltage	240VDC/240VAC
额定电流 Rated Current	标准每环为2A 2A/ring
导线规格 Lead Size	AWG28和AWG26; 2A; AWG22; 5A; AWG16; 10A ; 彩色铁氟龙绝缘 AWG28 or AWG26 for 2A; AWG22 for 6A; AWG16 for 10A, color coded, FEP insulated
导线长度 Lead Length	250mm或按客户要求 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	< 0.01Ω

安装方式 Way of installation



安装说明 Installation explanation:

- 因我们的帽型滑环转动扭矩很小, 因此可将内圈部分导线保护好直接用于转动或固定
The torque on the slip ring is very small, it can be used or fixed straightly after the inner part cables have been protected
- SRC032及SRC045系列产品可参照该连接方式
Installation for C type slip rings
SRC032, SRC045 Series can be installed in this way as well

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控力
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

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 bigger 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.

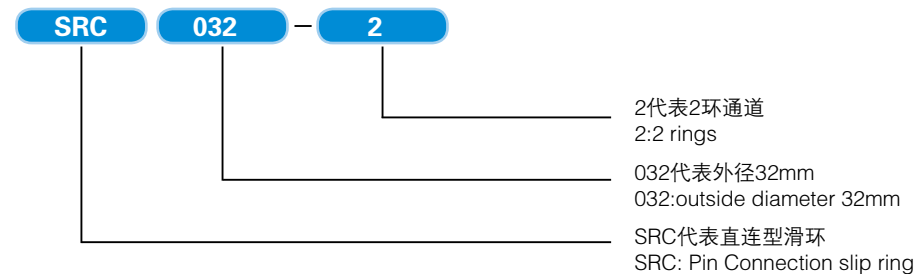
可选项 Optionals

- 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


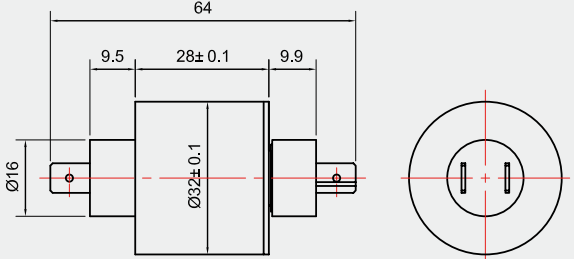

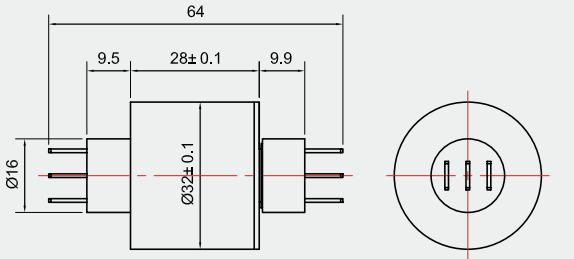

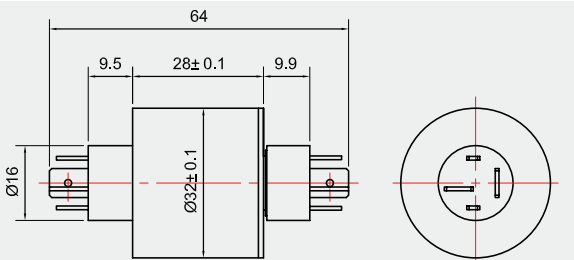
- 医疗卫生设备 Medical equipments
- 流水线生产、工艺控制设备
Production line, industry process equipments

型号选用说明 Model explanation



SRC032系列 SRC032 Series



型号 TYPE	外形尺寸 OUTLINE DIMENSION 单位(UNIT) mm
 SRC032-2	
 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	< 0.01 Ω

机械技术指标 Mechanical data

工作速度 Operating Speed	0~400rpm
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
壳体材料 Housing Material	工程塑料 Engineering Plastics

规格表 Specification List

型号 Type	环数 No. of Rings	额定电流 (Amps) Rated Current Amps		外形尺寸 Outline Dimension	
		2	14	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 × 2.8

SRC045系列
SRC045 Series

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	环数 NO. of Rings	额定电流 (Amps) Rated Current Amps		外形尺寸 Outline Dimension OD x L	镀金 扁平接头 Pin Thickness x Width
		5	20		
SRC045-6	6	-	6	Φ45 x 64.5	0.8 x 6.3
SRC045-8	8	2	6	Φ45 x 64.5	0.8 x 6.3 0.8 x 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 Dielectric Strength	1000MΩ/500VDC
动态电阻变化值 Electrical Noise	< 0.01Ω

机械技术指标 Mechanical data

工作速度 Operating Speed	0~400rpm
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
壳体材料 Housing Material	工程塑料 Engineering Plastics

SRH 过孔型滑环

SRH Series 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
- 采用先进的纤维刷技术, 免维护, 无需润滑油
Applies advanced fiber brush technology, free of maintenance or lubricating oil
- 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 points in each ring, 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 Optionals

- 工作电流、电压 Voltage/current
- 工作速度 Operating speed
- 工作温度 Operating temperature
- 环道数 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
- 防护等级 IP class
- 端子类型 Terminal type

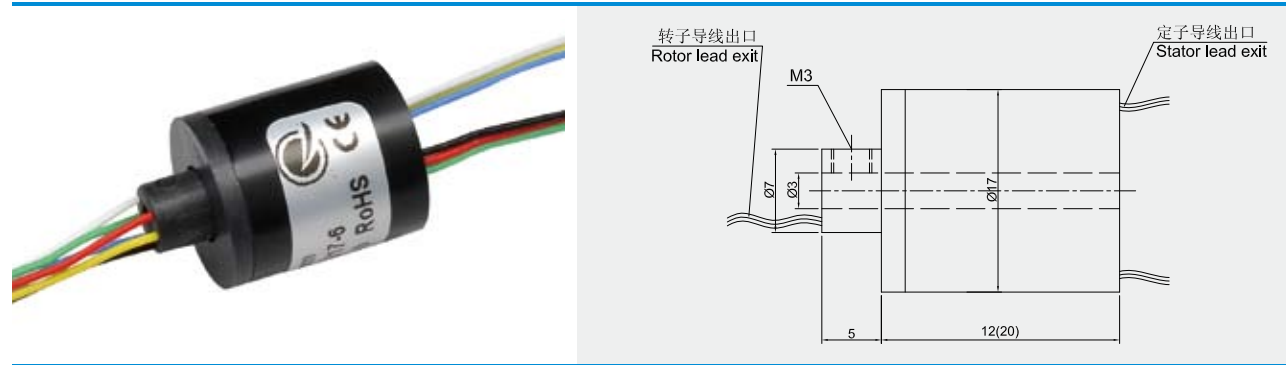
典型应用 Typical Application

- 工业机器 - 加工中心, 旋转工作台
Industrial machinery - machining centers, 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

SRH0317微型过孔导电滑环

SRH0317 miniature through-bore slip ring

外形尺寸 Outline Dimension



电气技术指标 Electrical data

参数 Specification	数值 Values
线数 No. of Rings	2,3,6,8
额定电流 Rated Current	2A/环 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	<0.01Ω

机械技术指标 Mechanical data

参数 Specification	数值 Values
工作速度 Operating Speed	0~300rpm
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

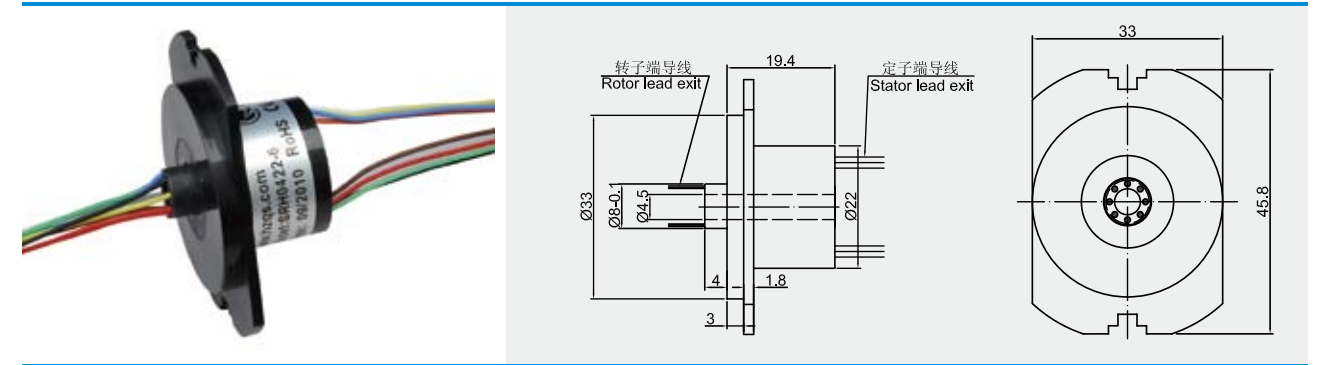
导线色码表 Lead Color Code

型号	1	2	3	4	5	6
SRH0317-2	1. 红 RED	2. 黑 BLK				
SRH0317-3	1. 红 RED	2. 黑 BLK	3. 白 WHT			
SRH0317-6	1. 红 RED	2. 黄 YEL	3. 黑 BLK	4. 蓝 BLU	5. 绿 GRN	6. 白 WHT
SRH0317-8	1. 红 RED	2. 黄 YEL	3. 黑 BLK	4. 蓝 YEL	5. 绿 GRN	6. 白 WHT
	7. 棕 BRN	8. 橙 ORN				

SRH0422 微型过孔导电滑环

SRH0422 miniature through-bore slip ring

外形尺寸 Outline Dimension



电气技术指标 Electrical data

参数 Specification	数值 Values
线数 No. of Rings	6、8
额定电流 Rated Current	2A/环 2A/ring
额定电压 Rated Voltage	240VAC/VDC
导线规格 Lead Size	AWG26镀银彩色铁氟龙绝缘导线 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	<0.01Ω

机械技术指标 Mechanical data

参数 Specification	数值 Values
工作速度 Operating Speed	0~300rpm
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

导线色码表 Lead Color Code

型号	1	2	3	4	5	6	7	8
SRH0422	1. 红 RED	2. 绿 GRN	3. 黄 YEL	4. 紫 PUP	5. 灰 GRY	6. 黑 BLK	7. 蓝 BLU	8. 橙 ORN

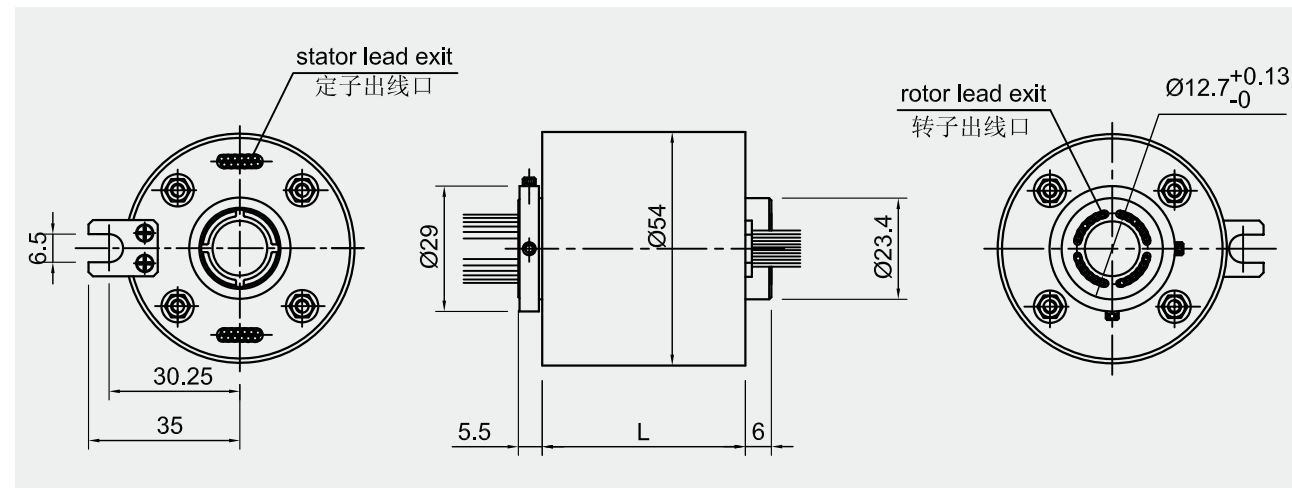
SRH1254 系列导电滑环

SRH1254 Series through-bore slip ring

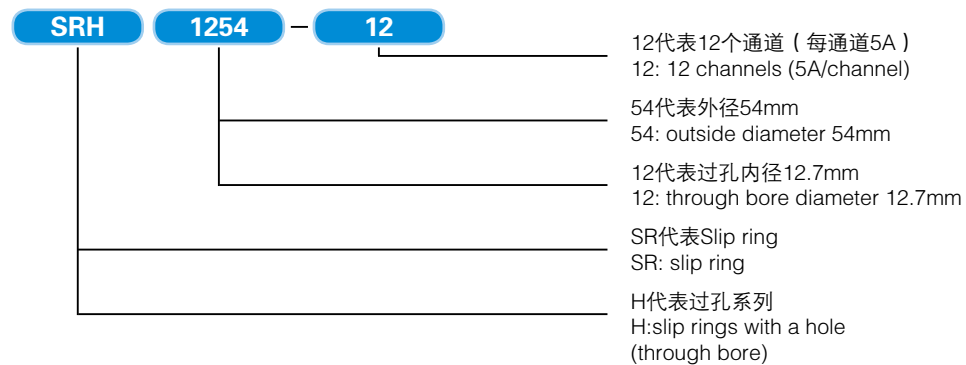
外形尺寸 Outline Dimension



- 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



型号 Type	长度 (L=mm)	环道数rings
SRH1254-6	33.8	6
SRH1254-12	47.3	12
SRH1254-18	61.6	18
SRH1254-24	75.7	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	标准每环为5A 5A/ring
导线规格 Lead Size	AWG22镀银铁氟龙绝缘 AWG22 silver 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	<0.01Ω


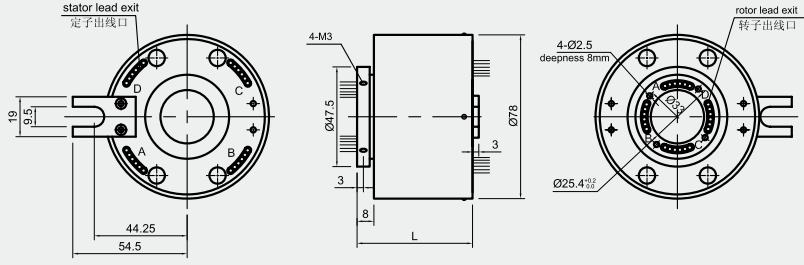

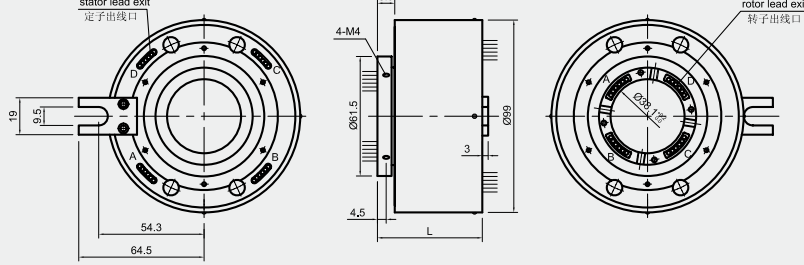

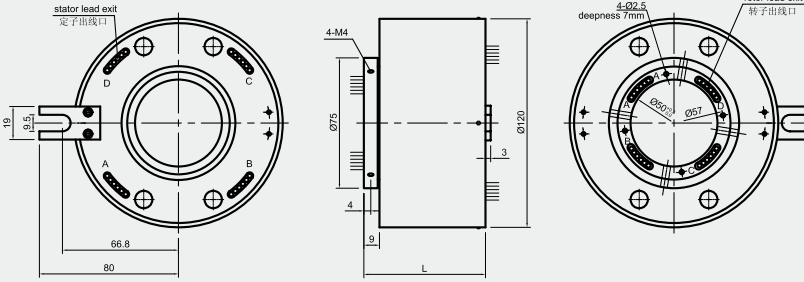

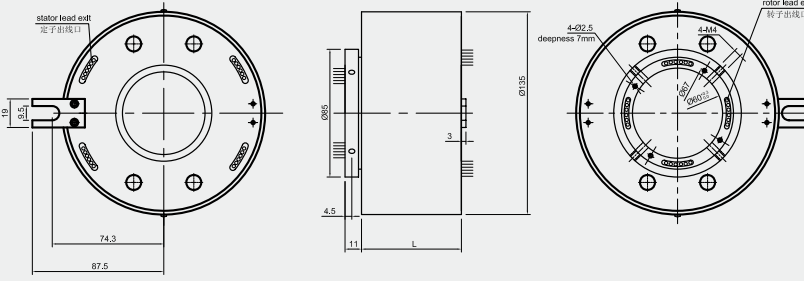
机械技术指标 Mechanical data


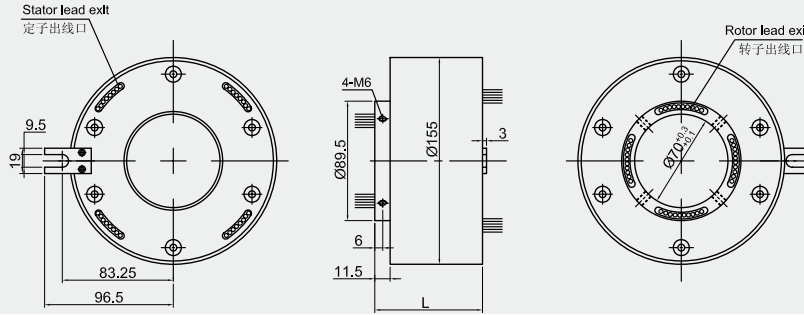

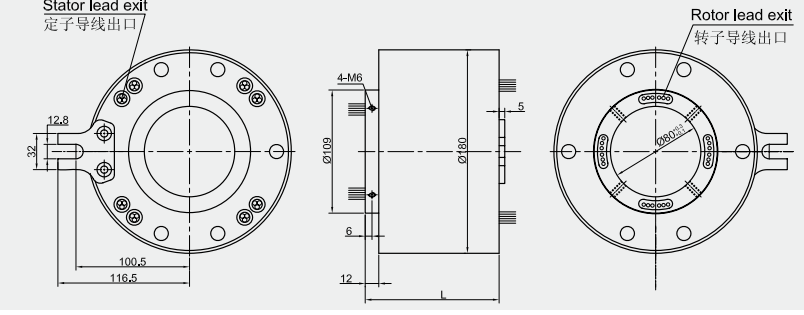

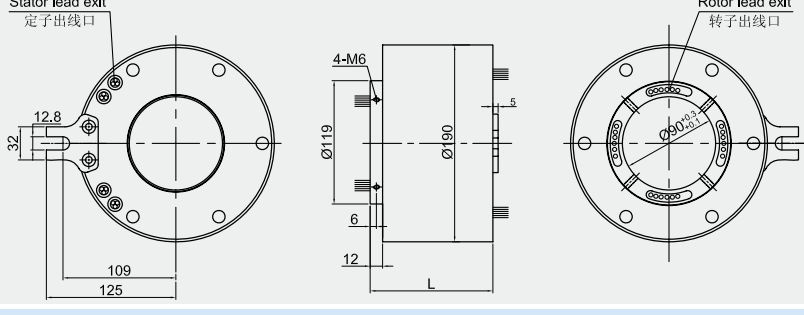

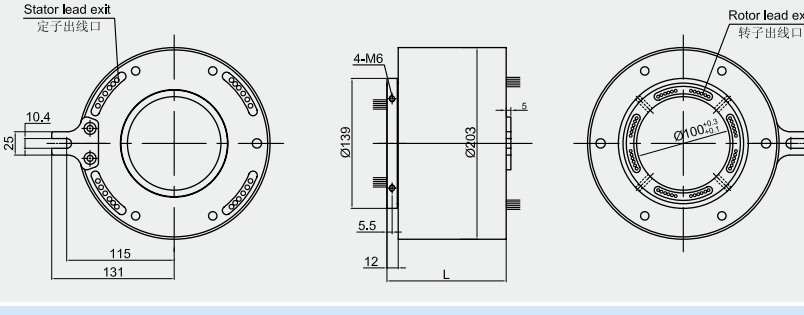
参数 Specification	数值 Values
工作速度 Operating Speed	0 – 500 rpm
工作温度 Working temperature	-20°C – +80°C
工作湿度 Humidity	60%RH或更高 60%RH or higher
接触材料 Contact Material	贵金属 Precious metal
壳体材料 Housing Material	工程塑料 Engineering plastic
力距 Torque	6环产品为0.1N × m,每增加6环加0.03N × m 0.1N × m for -6 version, 0.03N × m 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

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

型号 TYPE	外形尺寸 OUTLINE DIMENSION 单位(UNIT) mm
 <p>SRH2578</p>	
 <p>SRH3899</p>	
 <p>SRH50120</p>	
 <p>SRH60135</p>	

型号 TYPE	外形尺寸 OUTLINE DIMENSION 单位(UNIT) mm
 <p>SRH70155</p>	
 <p>SRH80180</p>	
 <p>SRH90190</p>	
 <p>SRH100203</p>	

- 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
2、4 lead exits equally distributed in rotor side

SRH2578 Series

型号 Type	长度 (L=mm)	额定电流 Rated Current		总环道 Total No.of Rings
		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 channels available on request

SRH3899 Series

型号 Type	长度 (L=mm)	额定电流 Rated Current		总环道 Total No.of Rings
		功率P(10A、15A)	信号S(2A)	
SRH3899-6P	54.1	6	—	6
SRH3899-12S	54.1	—	12	12
SRH3899-12P	77.9	12	—	12
SRH3899-6P/12S	77.9	6	12	18
SRH3899-24S	77.9	—	24	24
SRH3899-18P	101.7	18	—	18
SRH3899-12P/12S	101.7	12	12	24
SRH3899-6P/24S	101.7	6	24	30
SRH3899-36S	101.7	—	36	36
SRH3899-24P	125.5	24	—	24
SRH3899-18P/12S	125.5	18	12	30
SRH3899-12P/24S	125.5	12	24	36
SRH3899-6P/36S	125.5	6	36	42
SRH3899-48S	125.5	—	48	48

可按客户需求定制到96通路
Max 96 channels available on request

SRH50120 Series

型号 Type	长度 (L=mm)	额定电流 Rated Current		总环道 Total No.of Rings
		功率P(10A、15A或20A)	信号S(5A)	
SRH50120-6P	70	6	—	6
SRH50120-12S	70	—	12	12
SRH50120-12P	100	12	—	12
SRH50120-6P/12S	100	6	12	18
SRH50120-24S	100	—	24	24
SRH50120-18P	130	18	—	18
SRH50120-12P/12S	130	12	12	24
SRH50120-6P/24S	130	6	24	30
SRH50120-36S	130	—	36	36
SRH50120-24P	160	24	—	24
SRH50120-18P/12S	160	18	12	30
SRH50120-12P/24S	160	12	24	36
SRH50120-6P/36S	160	6	36	42
SRH50120-48S	160	—	48	48
SRH50120-30P	190	30	—	30
SRH50120-24P/12S	190	24	12	36
SRH50120-18P/24S	190	18	24	42
SRH50120-12P/36S	190	12	36	48
SRH50120-6P/48S	190	6	48	54
SRH50120-60S	190	—	60	60
SRH50120-36P	220	36	—	36
SRH50120-30P/12S	220	30	12	42
SRH50120-24P/24S	220	24	24	48
SRH50120-18P/36S	220	18	36	54
SRH50120-12P/48S	220	12	48	60
SRH50120-6P/60S	220	6	60	66
SRH50120-72S	220	—	72	72

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

SRH60135 Series

型号 Type	长度 (L=mm)	额定电流 Rated Current		总环道 Total No.of Rings
		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 channels available on request

SRH70155 Series

型号 Type	长度 (L=mm)	额定电流 Rated Current		总环道 Total No.of Rings
		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 channels available on request

SRH80180 Series

型号 Type	长度 (L=mm)	额定电流 Rated Current		总环道 Total No.of Rings
		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	218.5	30	—	30
SRH80180-24P/12S	218.5	24	12	36
SRH80180-18P/24S	218.5	18	24	42
SRH80180-12P/36S	218.5	12	36	48
SRH80180-6P/48S	218.5	6	48	54
SRH80180-60S	218.5	—	60	60
SRH80180-36P	248.5	36	—	36
SRH80180-30P/12S	248.5	30	12	42
SRH80180-24P/24S	248.5	24	24	48
SRH80180-18P/36S	248.5	18	36	54
SRH80180-12P/48S	248.5	12	48	60
SRH80180-6P/60S	248.5	6	60	66
SRH80180-72S	248.5	—	72	72
SRH80180-42P	278.5	42	—	42
SRH80180-36P/12S	278.5	36	12	48
SRH80180-30P/24S	278.5	30	24	54
SRH80180-24P/36S	278.5	24	36	60
SRH80180-18P/48S	278.5	18	48	66
SRH80180-12P/60S	278.5	12	60	72
SRH80180-6P/72S	278.5	6	72	78
SRH80180-84S	278.5	—	84	84
SRH80180-48P	308.5	48	—	48
SRH80180-42P/12S	308.5	42	12	54
SRH80180-36P/24S	308.5	36	24	60
SRH80180-30P/36S	308.5	30	36	66
SRH80180-24P/48S	308.5	24	48	72
SRH80180-18P/60S	308.5	18	60	78
SRH80180-12P/72S	308.5	12	72	84
SRH80180-6P/84S	308.5	6	84	90
SRH80180-96S	308.5	—	96	96

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

SRH90190 Series

型号 Type	长度 (L=mm)	额定电流 Rated Current		总环道 Total No.of Rings
		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	218.5	30	—	30
SRH90190-24P/12S	218.5	24	12	36
SRH90190-18P/24S	218.5	18	24	42
SRH90190-12P/36S	218.5	12	36	48
SRH90190-6P/48S	218.5	6	48	54
SRH90190-60S	218.5	—	60	60
SRH90190-36P	248.5	36	—	36
SRH90190-30P/12S	248.5	30	12	42
SRH90190-24P/24S	248.5	24	24	48
SRH90190-18P/36S	248.5	18	36	54
SRH90190-12P/48S	248.5	12	48	60
SRH90190-6P/60S	248.5	6	60	66
SRH90190-72S	248.5	—	72	72
SRH90190-42P	278.5	42	—	42
SRH90190-36P/12S	278.5	36	12	48
SRH90190-30P/24S	278.5	30	24	54
SRH90190-24P/36S	278.5	24	36	60
SRH90190-18P/48S	278.5	18	48	66
SRH90190-12P/60S	278.5	12	60	72
SRH90190-6P/72S	278.5	6	72	78
SRH90190-84S	278.5	—	84	84
SRH90190-48P	308.5	48	—	48
SRH90190-42P/12S	308.5	42	12	54
SRH90190-36P/24S	308.5	36	24	60
SRH90190-30P/36S	308.5	30	36	66
SRH90190-24P/48S	308.5	24	48	72
SRH90190-18P/60S	308.5	18	60	78
SRH90190-12P/72S	308.5	12	72	84
SRH90190-6P/84S	308.5	6	84	90
SRH90190-96S	308.5	—	96	96

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

SRH100203 Series

型号 Type	长度 (L=mm)	额定电流 Rated Current		总环道 Total No.of Rings
		功率P(10A、15A或20A)	信号S(5A)	
SRH100203-6P	93.5	6	—	6
SRH100203-12S	93.5	—	12	12
SRH100203-12P	125	12	—	12
SRH100203-6P/12S	125	6	12	18
SRH100203-24S	125	—	24	24
SRH100203-18P	156.5	18	—	18
SRH100203-12P/12S	156.5	12	12	24
SRH100203-6P/24S	156.5	6	24	30
SRH100203-36S	156.5	—	36	36
SRH100203-24P	188	24	—	24
SRH100203-18P/12S	188	18	12	30
SRH100203-12P/24S	188	12	24	36
SRH100203-6P/36S	188	6	36	42
SRH100203-48S	188	—	48	48
SRH100203-30P	219.5	30	—	30
SRH100203-24P/12S	219.5	24	12	36
SRH100203-18P/24S	219.5	18	24	42
SRH100203-12P/36S	219.5	12	36	48
SRH100203-6P/48S	219.5	6	48	54
SRH100203-60S	219.5	—	60	60
SRH100203-36P	251	36	—	36
SRH100203-30P/12S	251	30	12	42
SRH100203-24P/24S	251	24	24	48
SRH100203-18P/36S	251	18	36	54
SRH100203-12P/48S	251	12	48	60
SRH100203-6P/60S	251	6	60	66
SRH100203-72S	251	—	72	72
SRH100203-42P	282.5	42	—	42
SRH100203-36P/12S	282.5	36	12	48
SRH100203-30P/24S	282.5	30	24	54
SRH100203-24P/36S	282.5	24	36	60
SRH100203-18P/48S	282.5	18	48	66
SRH100203-12P/60S	282.5	12	60	72
SRH100203-6P/72S	282.5	6	72	78
SRH100203-84S	282.5	—	84	84
SRH100203-48P	314	48	—	48
SRH100203-42P/12S	314	42	12	54
SRH100203-36P/24S	314	36	24	60
SRH100203-30P/36S	314	30	36	66
SRH100203-24P/48S	314	24	48	72
SRH100203-18P/60S	314	18	60	78
SRH100203-12P/72S	314	12	72	84
SRH100203-6P/84S	314	6	84	90
SRH100203-96S	314	—	96	96

可按客户需求定制到216通路
Max 216 channels 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	AWG16镀锡铁氟龙或PVC绝缘 AWG16 tin plated, PTFE insulated or PVC	AWG22镀银铁氟龙绝缘 AWG22 silver 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	< 0.01Ω	

机械技术指标 Mechanical data

参数 Specification	数值 Values	
	功率 Power	信号 Signal
工作速度 Operating 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	
壳体材料 Housing Material	工程塑料 Engineering Plastics	
力 距 Torque	6环产品为0.1N/m,每增加6环加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
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

止转片 anti-rotation tab
止动杆 anti-rotation bar
4-紧定螺钉 fastening screw
内圈导线 rotor leads
滑环
外圈导线 stator leads
旋转轴 rotating shaft

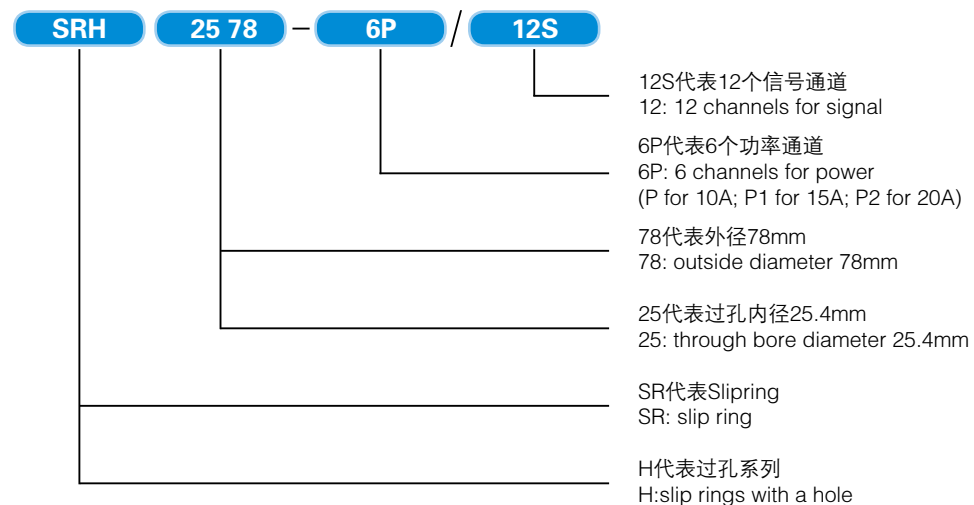
安装说明 Installation explanation

- 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控力
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

型号选用说明 Model explanation



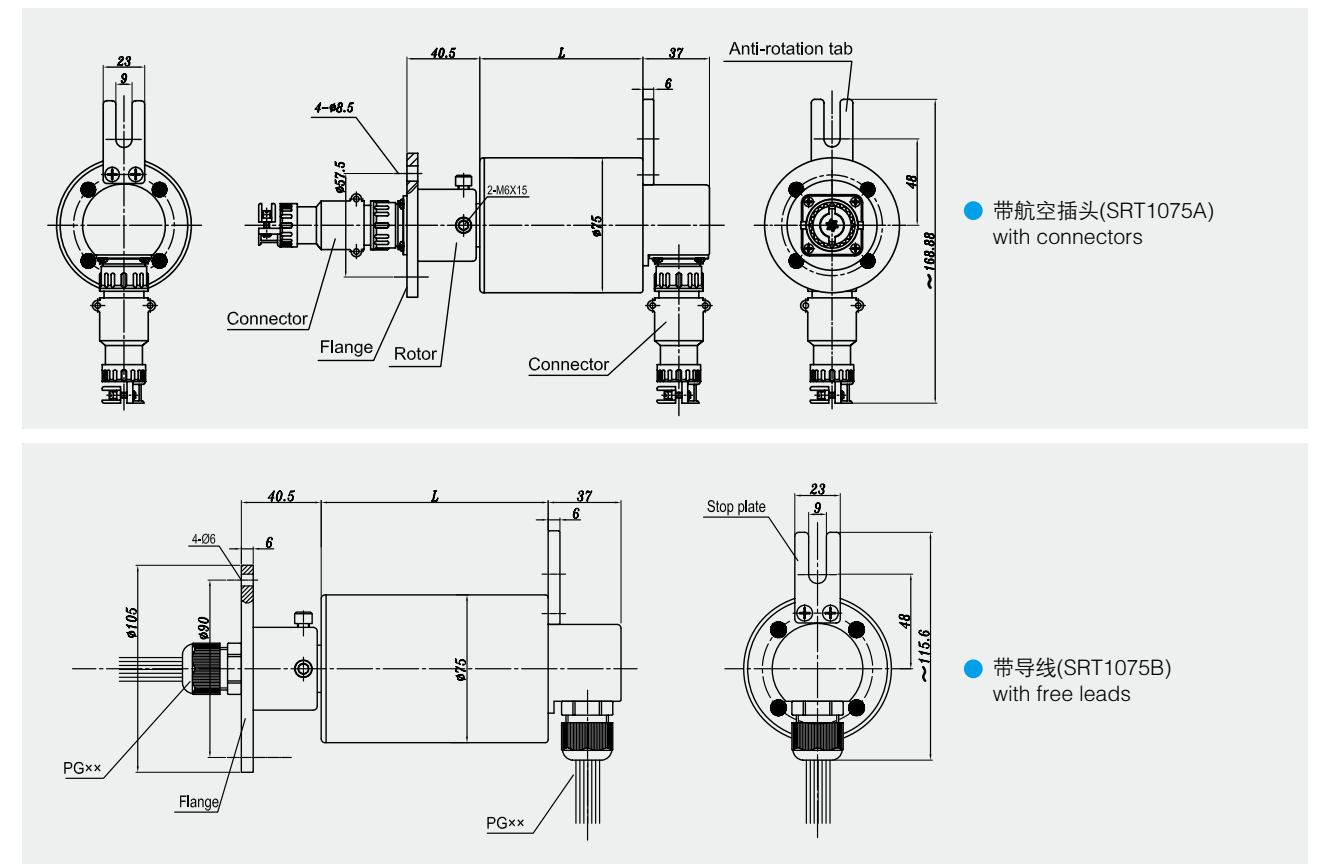
SRT 标准滑环

SRT Standard Slip Ring

SRT1075 标准滑环系列
SRT1075 Standard Slip Ring



外形尺寸图 Outline Dimension



$L=48.42+2.32 \times n$ n: 代表环道数 n: number of channels
说明: 转子法兰可以按客户需求定制 Note: different flange type can be made as request

电气技术指标 Electrical data

参数 Specification	数值 Values
环数 Rings	6、12、18、24、30、36、42、48
额定电压 Rated Voltage	380VAC/240VDC
额定电流 Rated Current	5A/环 5A/ring
绝缘电阻 Insulation Resistance	≥1000MΩ/500VDC
绝缘体强度 Dielectric Strength	500VAC@50Hz, 60s
动态电阻变化值 Electrical Noise	< 0.01Ω
连接器 Connectors	采用防水、镀金插针，或采用导线 (Use waterproof, gilded pin, or wires)

机械技术指标 Mechanical data

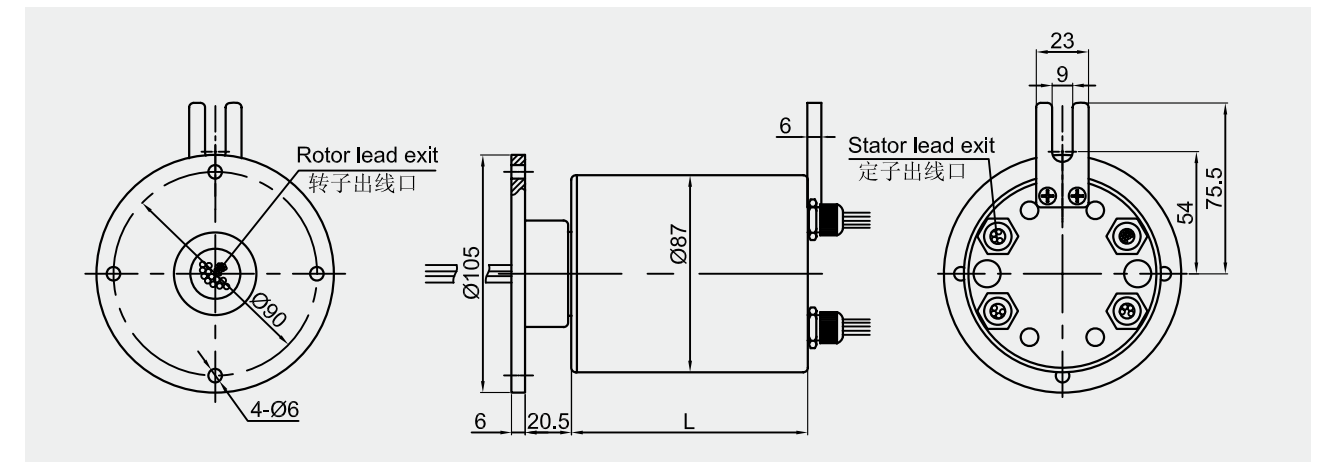
项 目 Item	参 数 Specification
工作速度 Operating Speed	0~500 rpm
工作温度 Working temperature	-20℃ - +80℃
工作湿度 Operating Humidity	60%RH 或更高 60%RH or higher
接触材料 Contact Material	贵金属 Precious Metals
结构材料 Housing material	不锈钢或铝合金 Stainless steel or Aluminum
防护等级 Protection level	IP65

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	2	3	4	5	6	7	8	9	10	11	12
	13	14	15	16	17	18	19	20	21	22	23	24
24路	1	2	3	4	5	6	7	8	9	10	11	12
	13	14	15	16	17	18	19	20	21	22	23	24
30路	1	2	3	4	5	6	7	8	-	-	-	-
	9	10	11	12	13	14	15	16	-	-	-	-
	17	18	19	20	21	22	23	24	-	-	-	-
	25	26	27	28	29	30	31	32	-	-	-	-
36路	1	2	3	4	5	6	7	8	9	-	-	-
	10	11	12	13	14	15	16	17	18	-	-	-
	19	20	21	22	23	24	25	26	27	-	-	-
	28	29	30	31	32	33	34	35	36	-	-	-
42路	1	2	3	4	5	6	7	8	9	10	11	-
	12	13	14	15	16	17	18	19	20	21	22	-
	23	24	25	26	27	28	29	30	31	32	33	-
	34	35	36	37	38	39	40	41	42	43	44	-
48路	1	2	3	4	5	6	7	8	9	10	11	12
	13	14	15	16	17	18	19	20	21	22	23	24
	25	26	27	28	29	30	31	32	33	34	35	36
	37	38	39	40	41	42	43	44	45	46	47	48

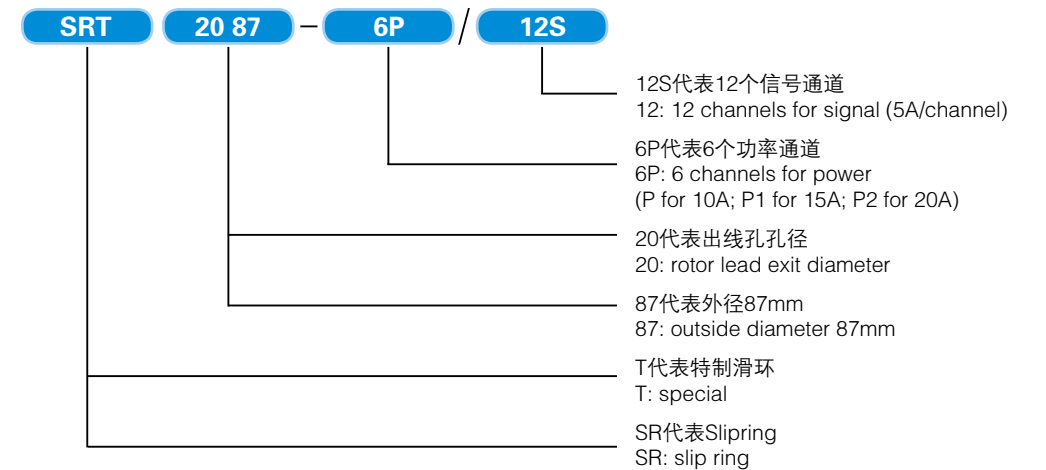
SRT2087系列
SRT2087 SERIES

外形尺寸 Outline Dimension



型号选用说明

Model explanation



可选型号及对应长度尺寸

型号 Type	长度 (L=mm)	额定电流 Rated Current		总环道 Total No. of Rings
		功率P(10A)	信号S(2A)	
SRT2087-6P	56.5	6	—	6
SRT2087-12S	56.5	—	12	12
SRT2087-12P	80.5	12	—	12
SRT2087-6P/12S	80.5	6	12	18
SRT2087-24S	80.5	—	24	24
SRT2087-18P	104.5	18	—	18
SRT2087-12P/12S	104.5	12	12	24
SRT2087-6P/24S	104.5	6	24	30
SRT2087-36S	104.5	—	36	36
SRT2087-24P	128.5	24	—	24
SRT2087-18P/12S	128.5	18	12	30
SRT2087-12P/24S	128.5	12	24	36
SRT2087-6P/36S	128.5	6	36	42
SRT2087-48S	128.5	—	48	48
SRT2087-30P	152.5	30	—	30
SRT2087-24P/12S	152.5	24	12	36
SRT2087-18P/24S	152.5	18	24	42
SRT2087-12P/36S	152.5	12	36	48
SRT2087-6P/48S	152.5	6	48	54
SRT2087-60S	152.5	—	60	60
SRT2087-36P	176.5	36	—	36
SRT2087-30P/12S	176.5	30	12	42
SRT2087-24P/24S	176.5	24	24	48
SRT2087-18P/36S	176.5	18	36	54
SRT2087-12P/48S	176.5	12	48	60
SRT2087-6P/60S	176.5	6	60	66
SRT2087-72S	176.5	—	72	72
SRT2087-42P	200.5	42	—	42
SRT2087-36P/12S	200.5	36	12	48
SRT2087-30P/24S	200.5	30	24	54
SRT2087-24P/36S	200.5	24	36	60
SRT2087-18P/48S	200.5	18	48	66
SRT2087-12P/60S	200.5	12	60	72
SRT2087-6P/60S	200.5	6	72	78
SRT2087-84S	200.5	—	84	84
SRT2087-48P	224.5	48	—	48
SRT2087-42P/12S	224.5	42	12	54
SRT2087-36P/24S	224.5	36	24	60
SRT2087-30P/24S	224.5	30	36	66
SRT2087-24P/36S	224.5	24	48	72
SRT2087-18P/48S	224.5	18	60	78
SRT2087-12P/60S	224.5	12	72	84
SRT2087-6P/60S	224.5	6	84	90
SRT2087-96S	224.5	—	96	96

电气技术指标 Electrical data

参数 Specification	参 数 Specification	
	功率 Power	信号 Signal
额定电压 Rated Voltage	380VAC	240VAC/240VDC
额定电流 Rated Current	10A	2A
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	< 0.01Ω	< 0.01Ω
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 silver plated, PTFE insulated
导线长度 Lead Length	500±20mm或根据客户要求提供 500±20mm(or as request)	

机械技术指标 Mechanical data

项 目 Item	参 数 Specification
工作速度 Operating Speed	0-500 rpm
工作温度 Working temperature	-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
结构材料 Housing material	铝合金 Aluminum
防护等级 Protection level	IP65

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 9 17 24	2 10 18 25	3 11 19 26	4 12 20 27	5 13 21 28	6 14 22 29	7 15 23 30	8 16	-	-	-	-
36路	1 10 19 28	2 11 20 29	3 12 21 30	4 13 22 31	5 14 23 32	6 15 24 33	7 16 25 34	8 17 26 35	9 18 27 36	-	-	-
42路	1 12 23 33	2 13 24 34	3 14 25 35	4 15 26 36	5 16 27 37	6 17 28 38	7 18 29 39	8 19 30 40	9 20 31 41	10 21 32 42	11 22	-
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

SRT 特殊滑环

SRT Special Slip Ring

新老客户可以按我们提供的产品目录选用适合您的产品。如果目录中没有的，请提供您的技术要求，我们工程技术人员会为您专门设计。

Customer who is familiar with slip ring can select suitable model from our catalogs. For any special requirement for which no solution available in the catalogs, please provide us your technical requirements for special solution from our engineers.

客户定制产品需提供的技术要求

Special demand, specification must be provided by customer

- 环数(包括动力环和信号环)
No. Of Rings (Power & Signal)
- 有无过孔要求, 孔径大小(mm)
Need through bore? Diameter of through bore?
- 最大工作电压、电流(包括动力和信号)
Rated Voltage/Current
- 传输方式(动力、信号或数据)
Transmission Type (Power, Signal or Data)
- 转数(rpm)
Operation Speed
- 外型尺寸要求, 外径长度(mm)
Dimension: Outside Diameter and Length
- 连接方式
Connecting Way
- 防护等级
IP Class

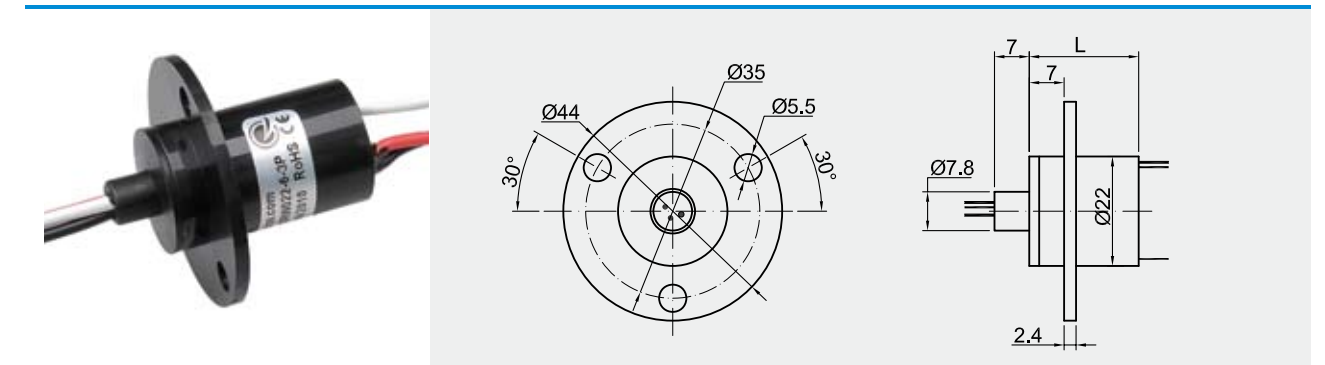


SRW、SRK 风力发电专用滑环

SRW, SRK Wind Energy Slip Ring

SRW帽型小风电滑环 SRW Type for Small Wind Turbine

外形尺寸 Outline Dimension



小风电功率 Power Output	100W	300W	600W	1000W
滑环型号 Type	SRW022-6-3P	SRW022-12-3P	SRW022-18-3P	SRW022-24-3P
工作电流 Current	4A	8A	12A	21A
长度L (mm)	21	31	35.4	43.2

电气技术指标 Electrical data

参数 Specification	数值 Values
环路 No. of Rings	3
额定电压 Rated Voltage	120VAC/ VDC
导线颜色顺序 Lead color code	红、黑、白 RED、BLK、WHT
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	500MΩ/500VDC
动态电阻变化值 Electrical Noise	< 0.01Ω

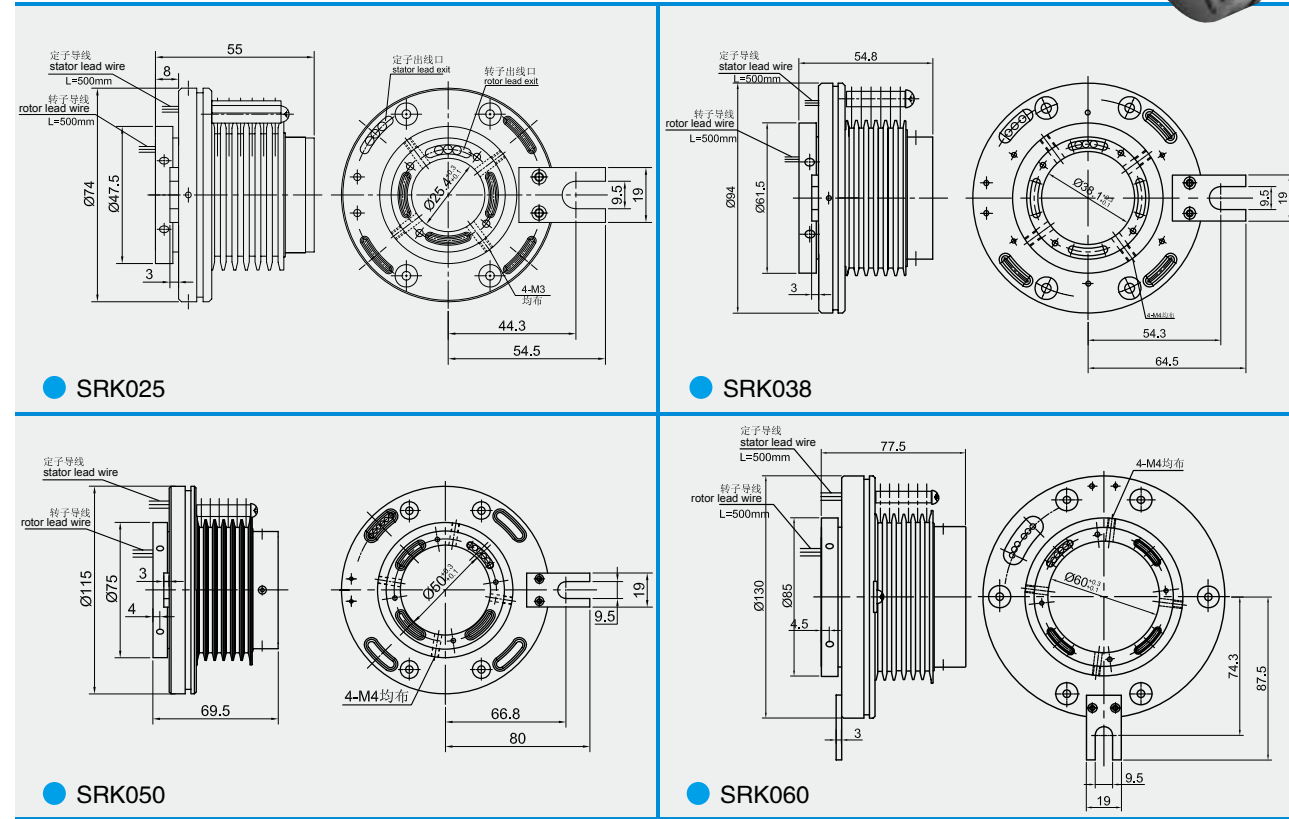
机械技术指标 Mechanical data

参数 Specification	数值 Values
工作速度 Operating Speed	0-300rpm
工作温度 Temperature Range	-40°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

SRK过孔中小风电滑环 SRK Type for Small to Mid-sized Wind Turbine



外形尺寸 Outline Dimension



大风力发电机滑环 (适用于1.5MW及以上风力发电机) Slip Ring for Big-sized Wind Turbine (for 1.5MW+)

特点 Features

- 每个环道采用多触点技术设计，结构设计小巧紧凑
Multi points contact on each ring, compact structure
- 部件安装简单，更换快捷
Easy for installation and components replacement
- 抗振动设计，完全满足风车箱房中的振动要求
Anti-vibration design
- 抗粉尘设计，完全满足沙漠使用中的防尘要求
Anti-dust design
- 瞬间驱动电流可达60A
Peak current up to 60A
- 多通道信号传输，抗干扰设计
Anti-interference design for signal transmission
- 防护等级 IP 65
IP class IP 65

典型应用 Typical Applications

- 风力发电机 Wind turbine

可选项 Optionals

- 可传输Profibus, CANbus, Fast Ethernet等总线数码
Able to transmit Profibus, CAN-BUS and Fast Ethernet Protocols
- 标准铝制箱体和外壳
Cast Aluminium frame and housing
- 装配法兰置于转子端部，能很好地与风机现用减速机相配
Mounting flange in rotor side, well mating to the reducer
- 可选择光纤数据传输
Optical channel available
- 可选择增量式或绝对值式编码器
Incremental or absolute encoder available
- 采用德国HARTING工业标准插口或按客户要求
Use HARTING connectors or as request
- 至少5年内无需保养
Free of maintenance in at least 5 years
- 使用寿命20年以上或1.5亿转
Life circle 20 years or 150 million revolutions

电气技术指标 Electrical data

参数 Specification	SRK025-3	SRK038-3	SRK050-3	SRK060-3
额定电流Rated Current	20A/环 40A/环	20A/环 40A/环	20A/环 40A/环 60A/环	20A/环 40A/环 60A/环
环路 No. of Rings	3			
额定电压 Rated Voltage	0 - 380VAC/ 240VDC			
导线颜色顺序 Lead color code	红、黑、白 RED、BLK、WHT			
导线长度 Lead Length	500mm或根据客户要求提供 500mm (or as request)			
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	< 0.01 Ω			

机械技术指标 Mechanical data

参数 Specification	数值 Values
工作速度 Operating Speed	0~300rpm
工作温度 Temperature Range	-40℃ - +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

SRW164-25-XMV



电气技术指标 Electrical data

参数 Specification	数值 Values	
额定电压Rated Voltage	主动力: 550VDC; 辅动力: 240VAC; 其它: 24VDC Main power: 550VDC; Supporting power: 240VAC; Others: 24VDC	
额定电流Rated Current	主动力: 32A/环; 辅动力: 6A/环; 其它: 2A/环 Main power: 32A/Ring; Supporting power: 6A/Ring; Others: 2A/Ring	
绝缘体强度Dielectric Strength	动力环 Power	≥2000VAC@50Hz, 60s;
	信号环 Signal	≥500VAC@50Hz, 60s;
绝缘电阻Insulation Resistance	动力环 Power	≥1000MΩ/500VDC
	信号环 Signal	≥500 MΩ/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	0~300rpm
工作温度 Operating Temperature	-40°C - +80°C
工作湿度 Operating Humidity	60%RH 或更高 60%RH or higher
工作寿命 Estimated Life Cycle	≥ 10 × 10 ⁷ 转@30rpm
接触材料 Contact Material	贵金属 Precious Metals
壳体材料 Housing Material	金属 Metals
防护等级 Protection level	IP65

SRW192-8



电气技术指标 Electrical data

参数 Specification	数值 Values	
额定电压 Rated Voltage	动力 Power: 400VAC; 信号 Signal: 24VDC	
额定电流 Rated Current	动力: 70A/环; 其它: 2A/环 Power: 70A/Ring; Others: 2A/Ring	
绝缘体强度 Dielectric Strength	动力环 Power	≥ 2000VAC@50Hz, 60s;
	信号环 Signal	≥ 500VAC@50Hz, 60s;
绝缘电阻 Insulation Resistance	动力环 Power	≥ 1000MΩ/500VDC
	信号环 Signal	≥ 500 MΩ/500VDC
动态电阻变化值 Electrical Noise	< 0.01Ω	

机械技术指标 Mechanical data

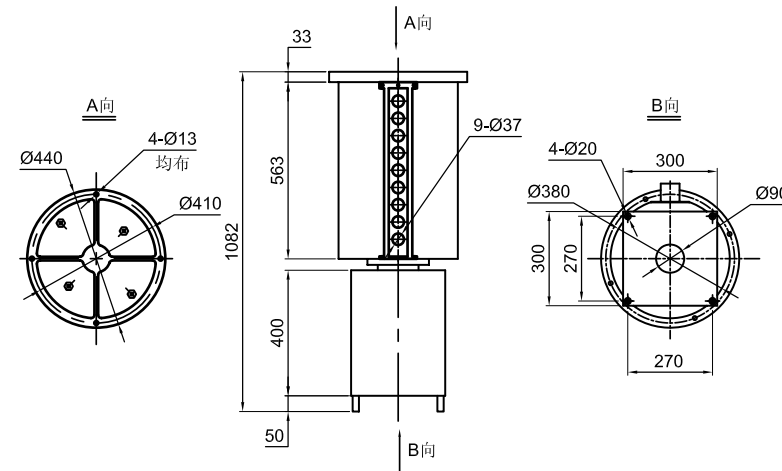
参数 Specification	数值 Values
工作速度 Operating Speed	0~300rpm
工作温度 Operating Temperature	-40°C - +80°C
工作湿度 Operating Humidity	60%RH 或更高 60%RH or higher
工作寿命 Estimated Life Cycle	≥ 10 × 10 ⁷ 转@30rpm
接触材料 Contact Material	贵金属 Precious Metals
壳体材料 Housing Material	金属 Metals
防护等级 Protection level	IP65

SRZ 中心集电器

SRZ SERIES

SRZ-4P4-24S-U 新型中心集电器
SRZ-4P4-24S-U New Centre Collector Ring

外形尺寸 Outline Dimension



特点 Features

- 全部采用接线端子连接, 安装方便
Applies connectors, easy for electrical connection
- 与国内外同类相比, 重量更轻
Lighter in weight
- 大、小电流同步干扰控制
Anti-interference

可选项 Optionals

- 电流大小 Current
- 通路数 Number of rings
- 端子类型 Terminal type
- 专用导线 Special lead wire
- 连接方式 Connection way

典型应用

Typical Applications

- 起重设备 Lifting equipment

技术指标 Technology data

参数 Specification	数值 Values	
工作速度 Operating Speed	0-60 rpm	
环数 Number of rings	4	24
额定电压 Rated Voltage	500VAC	240VAC/VDC
额定电流 Rated Current	630A	20A
动态接触波动值 Electrical Noise	< 0.1Ω	< 0.01Ω
绝缘体强度 Dielectric Strength	500VAC@50Hz, 60s	
绝缘电阻 Insulation Resistance	≥ 1000MΩ/500VDC	
工作温度 Temperature Range	-20°C - +80°C	

型号选用说明 Model explanation



- U代表上传动 U: Up drive
- D代表下传动 D: Under drive
- 24S代表24个信号通道 24S: 24channels for signal
- 4代表功率环道数 4:4 rings for power
- P4代表600A/环 P4:600A/ring
- SR代表 Slip ring SR Slip ring
- Z代表中心集电器 Z: Centre Collector Ring

P1,P2,P3,P4,P5分别代表100A,200A,400A,600A,1000A
P1 for 100A ,P2 for 200A,P3 for 400A,P4 for 600A,P5 for 1000A

FOSR光纤滑环系列

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
- 能为客户量身定制所需要的产品
Able to offer customized solutions

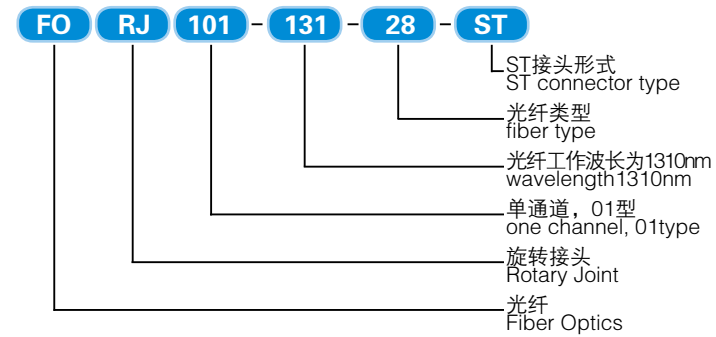
典型应用 Typical Applications

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

可选项 Optionals

- 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

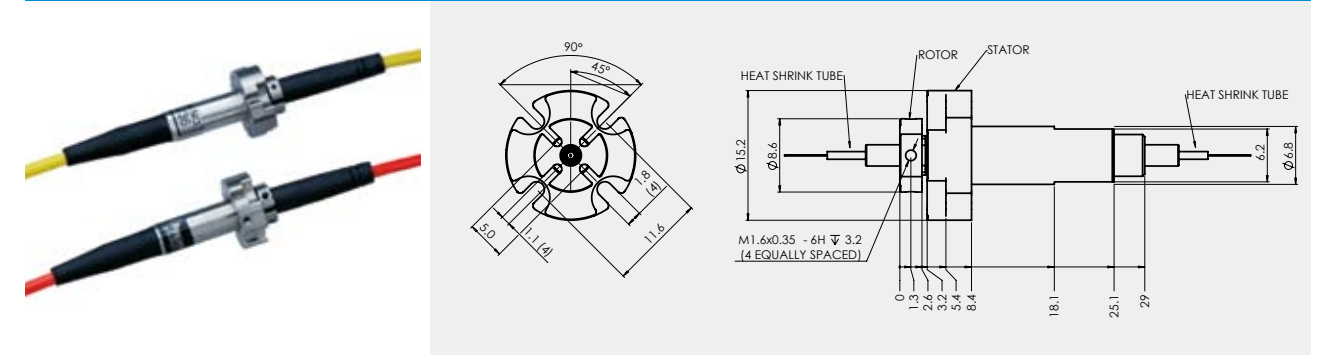
型号选用说明 Model explanation



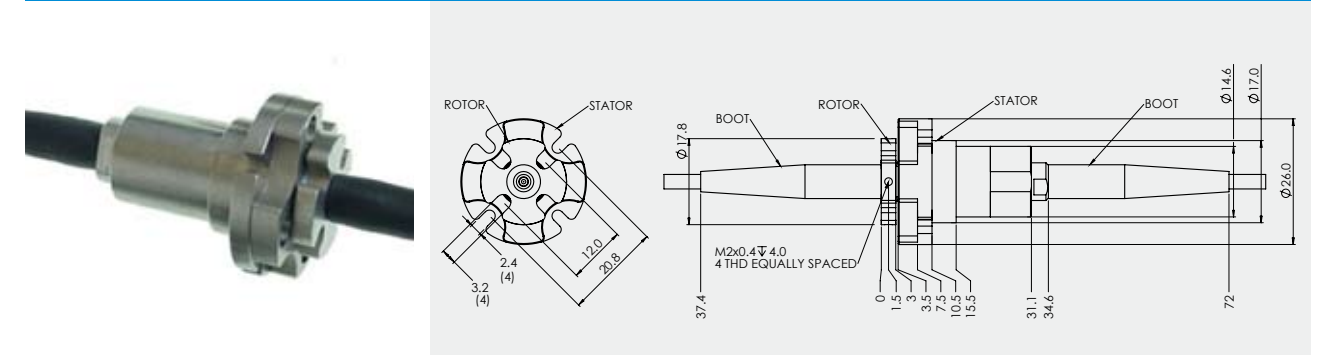
技术指标 Technology data

参数 Specification	数值 Values			
型号 Type	FORJ101	FORJ102	FORJ103	FORJ104
波长范围 Wavelength range	650-1650 nm		850-1650 nm	
插损 Insertion loss	<2 dB (典型值typica: <0.5 dB)		<3dB	
插损偏差 Insertion loss ripple	< ±0.25 dB (典型值typica: ±0.15 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			
抗拉强度 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 - 65°C			
存储温度 Storage temperature	-50 - 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)	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	IP 68			

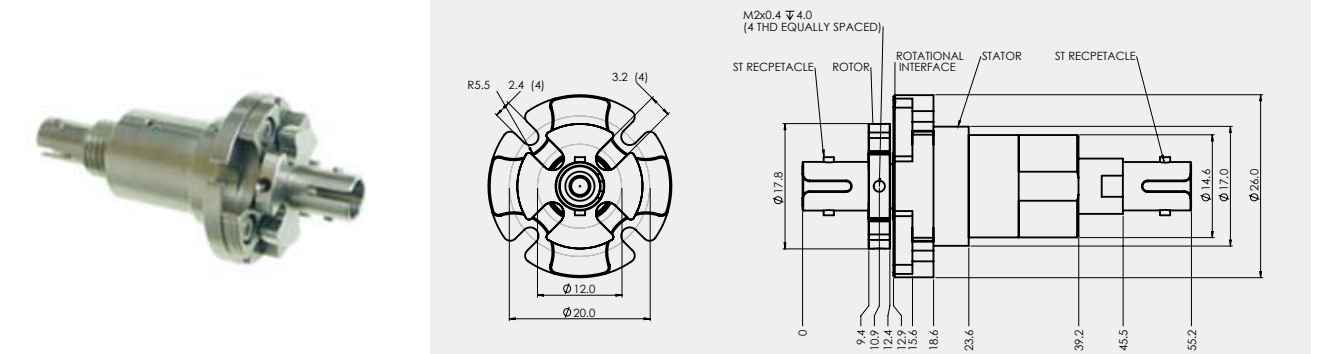
FORJ101微型光纤旋转接头 FORJ101 miniature size



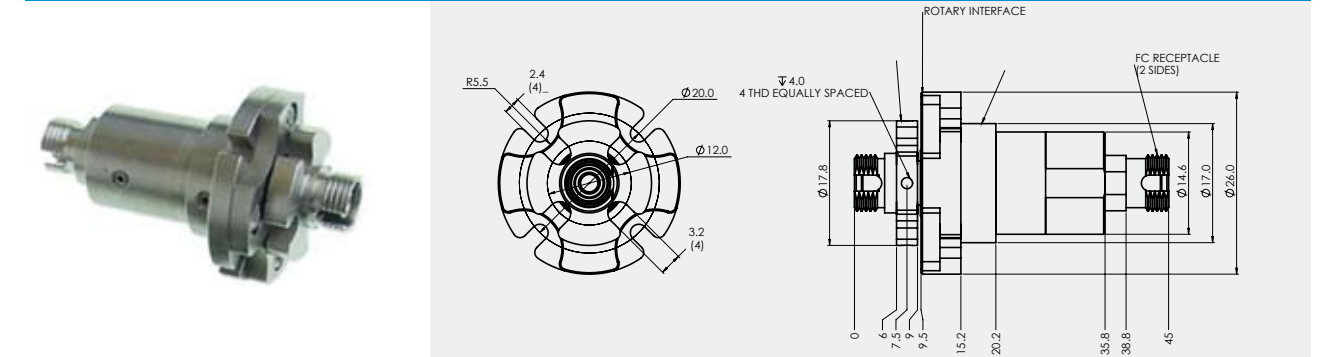
FORJ102单通道光纤旋转接头 FORJ102 Single Channel



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



FOSR025光电组合滑环系列

FOSR025 Optical Hybrid Slip Ring

特点 Features

- 光电信号混走 Combination of electrical and optical transmission
- 体积小 Small in size
- 重量轻 Light in weight

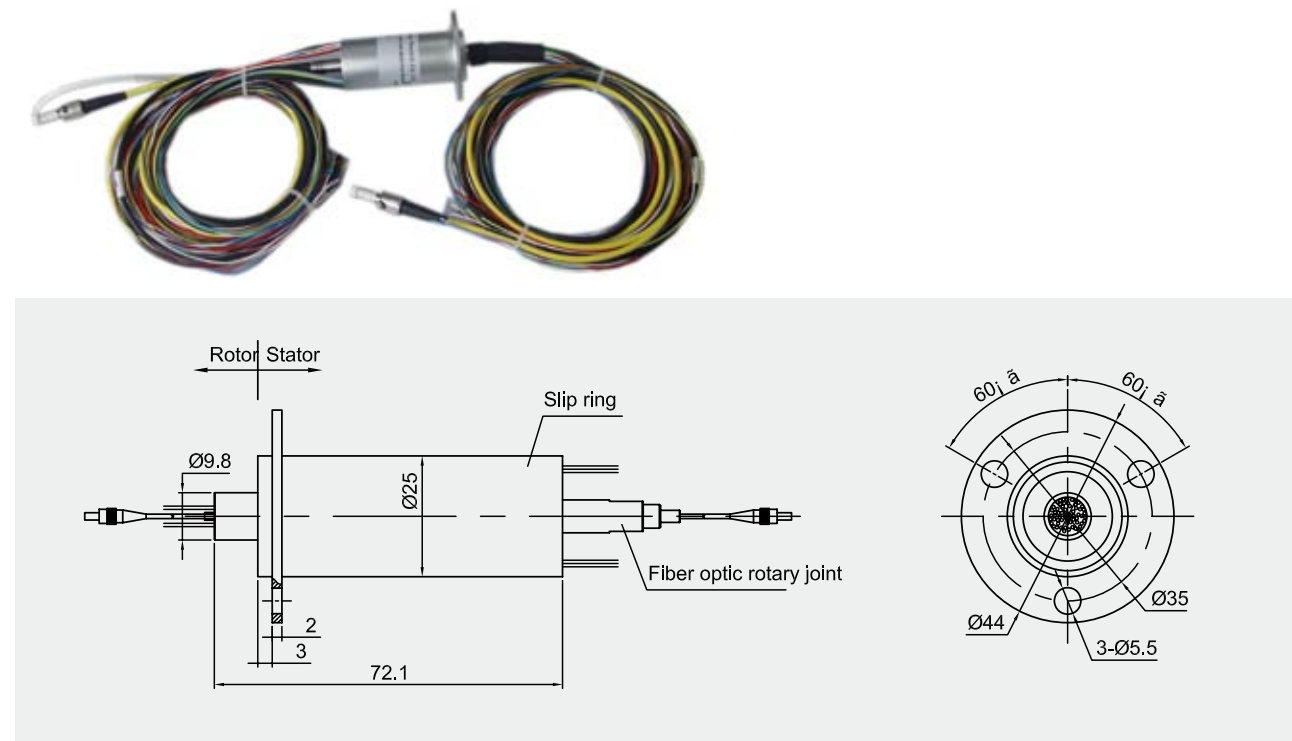
典型应用 Typical Applications

- 光电复合系统 compound optic-electric system

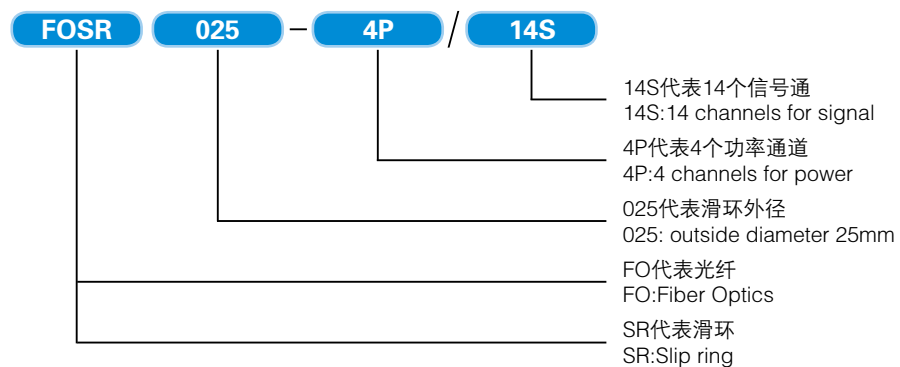
可选项 Optionals

- 导线长度 Lead length
- 环道数 Number of rings
- 光纤类型 Fiber type
- 光纤接头 Connector type
- 壳体材料 Housing material
- 法兰 Flange dimension

外形尺寸 Outline Dimension



型号选用说明 Model explanation



电气技术指标 Electrical data

参数 Specification	数值 Values
额定电压 Rated Voltage	240VDC/240VAC
额定电流 Rated Current	标准每环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	≤0.01Ω

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 Temperature Range	-40- +65℃
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

规格表 Specification List

型号 Type	环数 NO. of Rings	额定电流 Rated Current		
		2	4	6
FOSR025-4P/18S	22	18	4	4
FOSR025-4P/22S	26	22	4	
FOSR025-8P/14S	22	14	8	
FOSR025-30S	30	30		

注：可以根据客户要求定做加视频通道，有RG174、RG178、RG179可选。
Able to integrate RG174, RG178 or RG179 coaxial cable

光学性能 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 Pigtails 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

单通道SMA型 高频旋转接头

SMA High-frequency Rotary Joint Single Channel

特点 Features

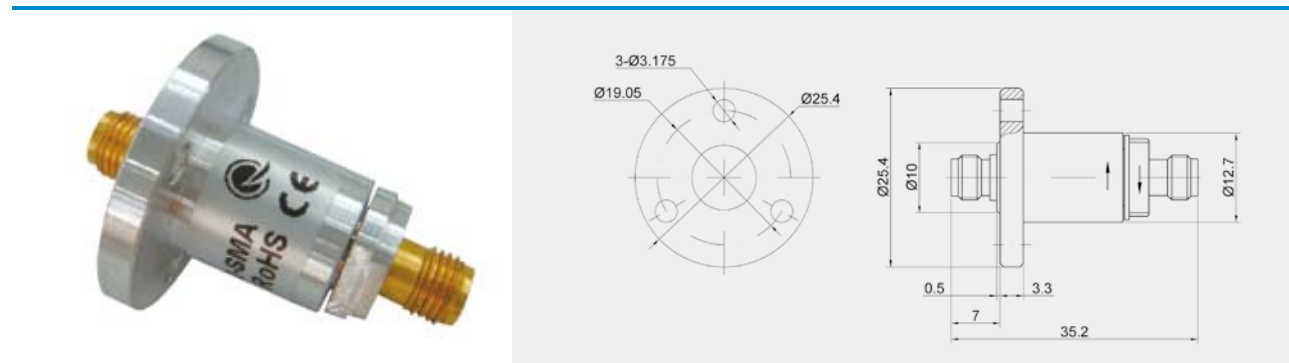
- 体积小 Small in size
- 频率高 High frequency
- 重量轻 Lighth in weight
- 衰减少 Low attenuation
- 插损小 Low insertion loss

可选项 Optionals

- 连接电缆 Free lead connection
- 法兰尺寸 Flange dimension

典型应用 Typical Applications

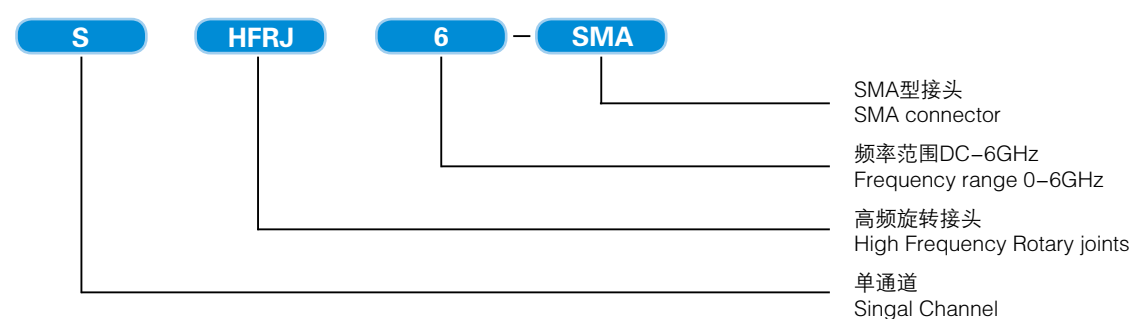
- 模拟高频电子系统，如：雷达、天线、视频等信号的传输
Analogue high frequency electronic system like radar, antenna etc.



技术指标 Technology data

参数 Specification	数值 Values
Frequency range 频率范围(GHz)	DC-6
	DC-12.4
VSWR 电压驻波比 Max	1.3
VSWR WOW/360 degrees 驻波比动态变化值	0.05
Insertion loss 插入损耗dB(Max)	0.2
Insertion loss -wow dB(Max) 插入损耗动态变化值	0.05
Peak power 峰动力(kW)	2
Average power 平均 (W@1.0GHz)	50
工作速度 Operating Speed(rpm)	200
Connectors 接头形式	SMA

型号说明 Model explanation



气（液） 电组合滑环系列

Pneumatic Hydraulic Hybrid 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

- 钢包运转台
Steel ladle turntable

可选项 Optionals

- 电、气、液通道数
Number of electrical/pneumatic/hydraulic channels
- 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 channels
- 工作速度
Operating Speed



盘式滑环系列

Pancake Slip Ring

特点 Features

- 厚度小, 节省空间
Low in height
- 动力及信号混走
Combination of power and signal transmission
- 抗干扰设计
Anti-interference

可选项 Optionals

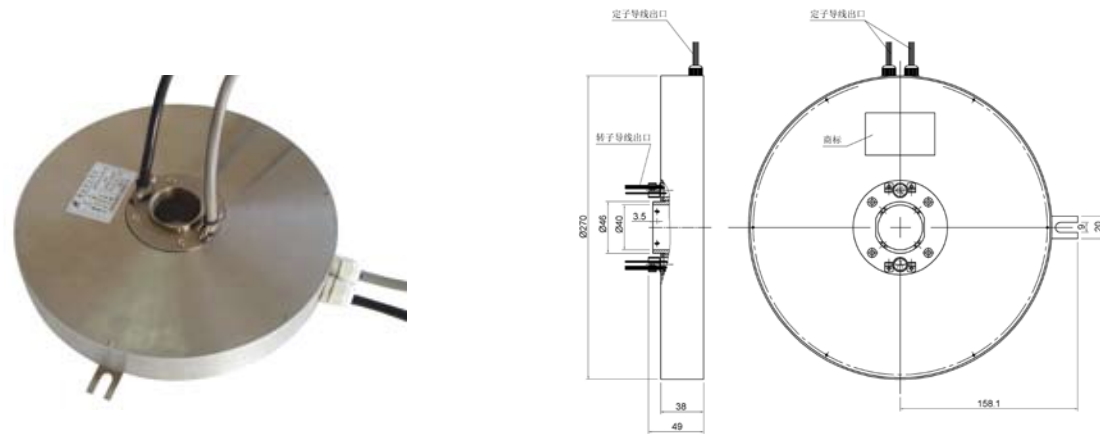
- 导线长度 Lead length
- 端子类型 Terminal type
- 安装方式 Way of installation

典型应用 Typical Applications

- 旋转门 Revolving door

SRP040-3P/17S 盘式导电滑环 SRP040-3P/17S Pancake Slip Ring

外形尺寸 Outline Dimension



电气技术指标 Electrical data

参数 Specification	数值 Values
环道数 NO. of Rings	20
额定电流 Rated Current	15A/环, 3环; 5A/环, 17环 15A/ring (power), 3 rings; 5A/ring (signal), 17rings
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	≥1000MΩ/500VDC

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 Temperature Range	-40°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
防护等级 Protection level	IP51

操纵杆系列

Joystick



特点 Features

- 操纵灵活 Flexible handling
- 复位误差小 Small resetting error
- 寿命长 Long life-time

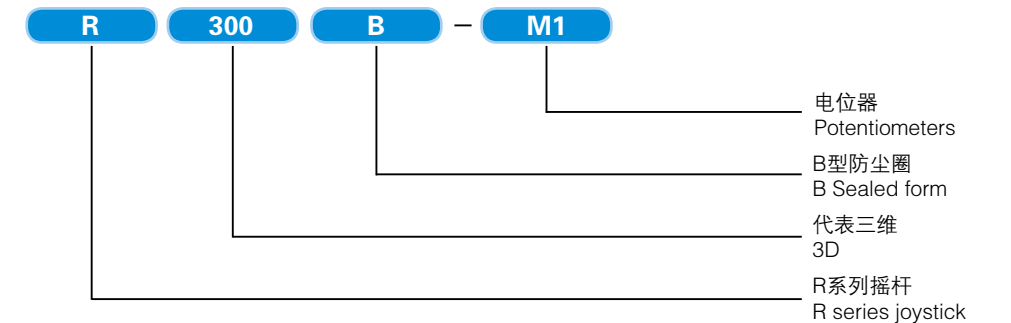
可选项 Optionals

- 端子型号 Terminal type
- 引线长度 Lead length
- 防尘盖 Seal form
- 开关 Switch
- 电位器型号规格 potentiometer
- 操纵手感轻或重 soft or heavy handling

典型应用 Typical Applications

- 移动摄像和CCTV控制系统
Move photography CCTV control system
- 测试计量设备
Medical imaging system
- 医药成像系统
Measurement equipments
- 自动化机器控制
Automotive control
- 视频编辑及生产设备
Video editing equipments
- 工业及科学用仪表
Industrial Instruments

型号选用说明 Model explanation



R系列操纵杆
R series

二维 (2D)

型号 Type	防尘圈 Seal form	电位器 Potentiometers	外形尺寸 (Outline dimension)	单位 (Unit) mm
R 200				安装孔尺寸 Install hole size
R 201	A			安装孔尺寸 Install hole size
R 202	B	M1: 5KΩ 220° M2: 5KΩ 50° M3: 10KΩ 220° M4: 10KΩ 50°		安装孔尺寸 Install hole size
R 203	C			安装孔尺寸 Install hole size
R 204	D			安装孔尺寸 Install hole size

三维 (3D)

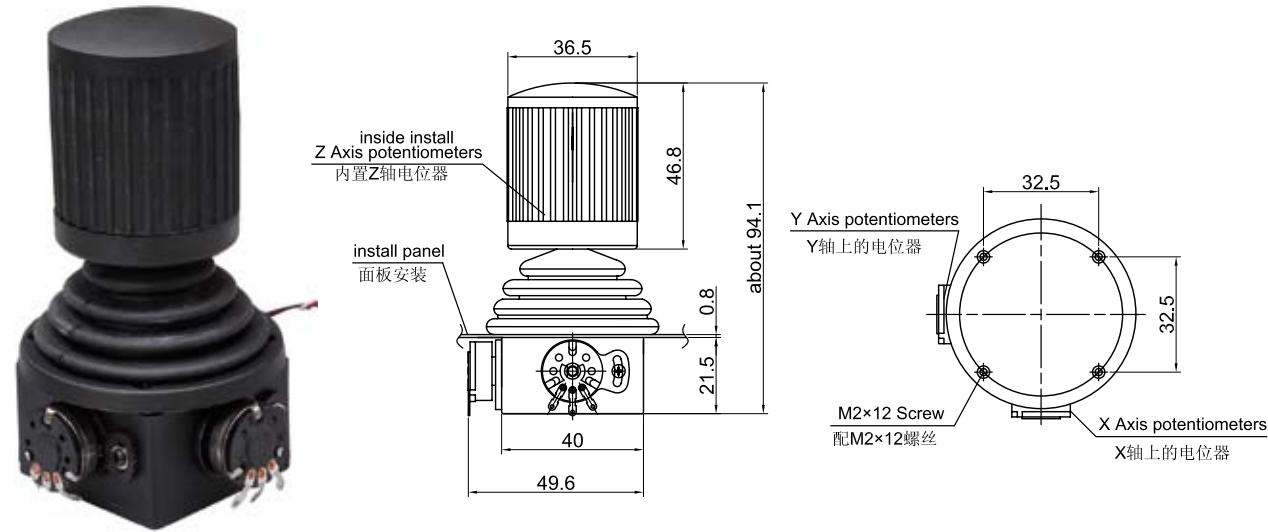
型号 Type	防尘圈 Seal form	电位器 Potentiometers	外形尺寸 (Outline dimension)	单位 (Unit) mm
R 300A	A	M1: 5KΩ 220° M2: 5KΩ 50° M3: 10KΩ 220° M4: 10KΩ 50°		安装孔尺寸 Install hole size
R 300B	B			安装孔尺寸 Install hole size

四维 (4D)

型号 Type	防尘圈 Seal form	电位器 Potentiometers	外形尺寸 (Outline dimension)	单位 (Unit) mm
R 400A	A	M1: 5KΩ 220° M2: 5KΩ 50° M3: 10KΩ 220° M4: 10KΩ 50°		安装孔尺寸 Install hole size
R 400B	B			安装孔尺寸 Install hole size

J系列操纵杆 J Series Joysticks

外形尺寸 Outline Dimension



J300控制杆

电气技术指标 Electrical data

参数 Specification	数值 Values
电阻值 Resistance	5KΩ, 10KΩ 可选
电阻公差 Resistance Tolerance	± 20%
独立线性公差 Independent Linearity	± 1%
分辨率 Resolution	无穷大 Infinite
抵抗温度系数 T.C.R.	± 400 ppm/°C
输出平滑 Outputs smoothness	最大0.5%
X和Y轴电转角 X and Y Axis Rotating angle	± 25°
Z轴电转角 Z Axis Rotating angle	± 45°
R300Z轴电位器、R400 Z轴电位器及按钮开关导线 R300Z Axis Potentiometers、R400 Z Axis Potentiometers and button	AWG28铁氟龙绝缘镀银彩色导线 标准线长200mm或按客户要求 AWG28 silver plated, PTFE insulated Standard length 200mm other lengths on request
绝缘电阻 Insulation Resistance	50 MΩ @ 500 VDC, 60 sec.

机械技术指标 Mechanical data

参数 Specification	数值 Values
复位的误差率 Reset Error Rate	0.06 KΩ
预期回转使用寿命 Extected Lifecycle	300,000次和500,000次可选 300,000 cycles or 500,000 cycles for option
工作温度 Temperature Range	-20°C - 80°C

H系列操纵杆 H series

特点 Features

H系列摇杆是一个非接触式，采用霍尔效应传感器，弹簧自动复位，使用寿命长的控制杆。采用无接触的霍尔效应工艺，操作力较小，清洁方便，应用于对精度和精密度要求比较高场合。

H joystick is a non-contact joystick with long life time. It applies hall effect sensor, handling soft, easy for cleaning, suitable for application where high accuracy and precision is required.



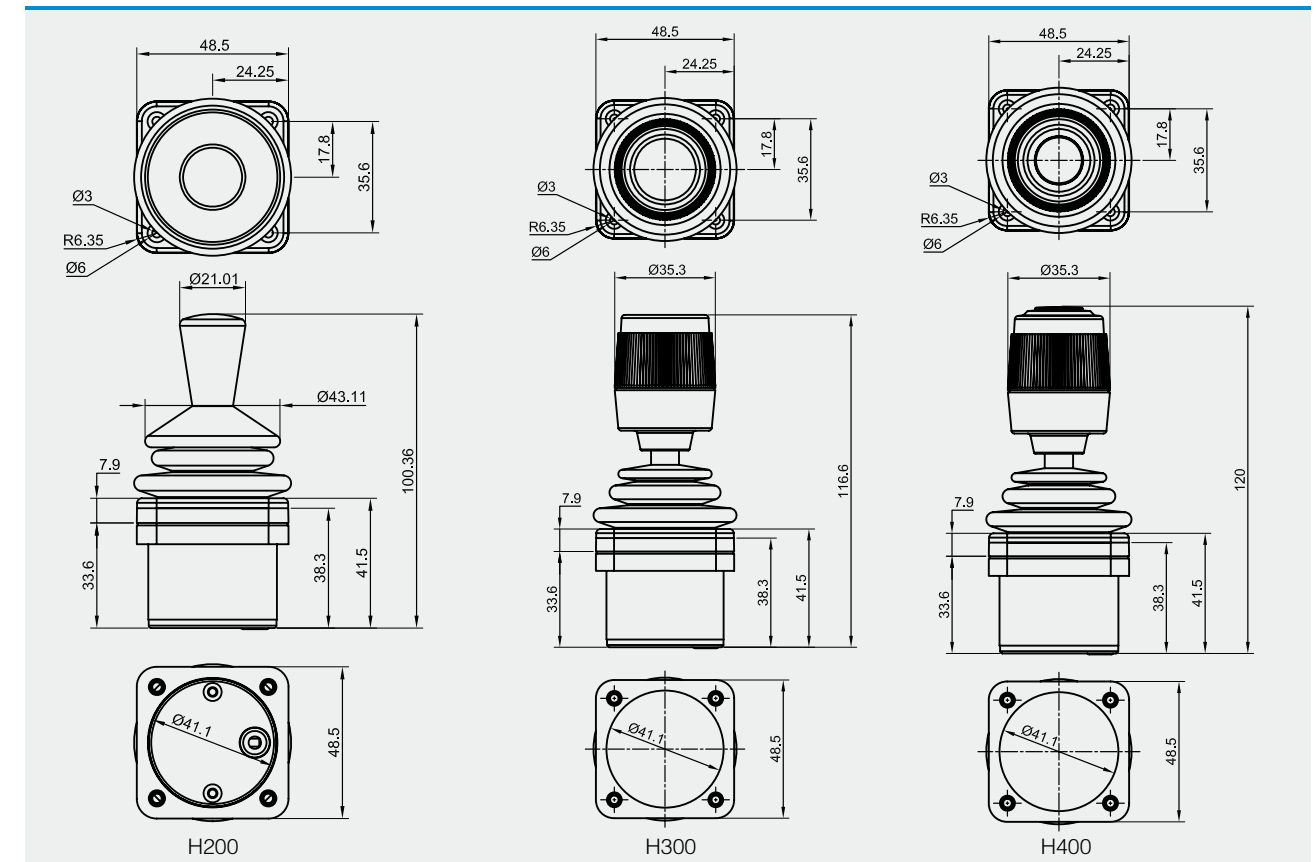
电气技术指标 Electrical data

参数 Specification	数值 Values
工作电压 Operating Voltage	5VDC
基本输出电压 Supply voltage	0-5.0VDC
中心电压 Center voltage	2.5VDC (± 25mV)
额定电流 Supply current	最大10mA /轴
输出电流 Output current	最大2mA /轴
输出公差 Output tolerance	± 2%
导线规格 Lead Size	AWG28铁氟龙绝缘镀银彩色导线 标准线长200mm或按客户要求 AWG28 silver plated, PTFE insulated, Standard length 200mm other lengths on request

导线颜色顺序 Lead color code

红色Red=5 VDC电源正极
Supply voltage positive
黑色Black=电源负极
Supply voltage negative
蓝色Blue=X轴 X axis
黄色Yellow=Y轴 Y axis
绿色Green=Z轴 Z axis
白色White=开关Switch Com
橙色Orange=开关Switch

外形尺寸 Outline Dimension





PROSPER
全盛机电

杭州全盛机电科技有限公司

Hangzhou Prosper Mechanical & Electrical Technology Co., Ltd.

地址: 杭州市经济技术开发区幸福南路115号七格工业园6幢 PC: 310018

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

Tel: +86-571-86496781(公司总机) 86496782(国内销售总机) 81996706(Overseas sales Dept.)

Fax: +86-571-86496785

Http:// www.hzqs.com Email: sales@hzqs.com