PROSPER
全 盛 机 电



安防滑环手册

Slip Ring for Surveillance Camera

杭州全盛机电科技有限公司

Hangzhou Prosper Mechanical & Electrical Technology Co.，Ltd


全盛机电
全盛产业园


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企业简介
BRIEF INTRODUCTION

杭州全盛机电科技有限公司创立于2003年，是专业从事精密导电滑环及控制杆研发、生产和销售为一体的高新技术企业。公司位于杭州临平经济技术开发区，员工500多人。公司具有雄厚的研发设计能力，现拥有100多项发明专利，并与国内外众多知名企业及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跑者。2013年被评为高新技术企业，2022年被评为专精特新“小巨人”企业。

公司生产的精密导电滑环广泛应用于安防监控、雷达天线、航空航天、风力发电、自动化设备、机器人、医疗设备及工程机械等行业，致力于为客户提供高性能360°无限制旋转连接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，还可以根据客户不同的技术要求，设计和生产各种多通道、大电流、高电压、高转速、高频率等及集电、气液、光纤通信于一体的复杂组合滑环。

公司已通过ISO9001、ISO14001、ISO45001、IATF16949多项体系认证及CE、RoHS和REACH等产品认证。销售市场覆盖全国各省和自治区，并在国外设有10多个销售机构，产品出口世界50多个国家，为中国航天、中国电子、中国船舶重工、中国科学院、华为、海康威视、大华、金风科技、远景能源、博世、西门子、ABB、施耐德、三星、松下等世界知名企业及科研院所提供产品和技术服务，并为世界知名滑环厂家提供ODM和OEM。

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，矢志成为具有高度社会责任感、全球卓越的专业滑环公司。

Founded in 2003, Hangzhou Prosper Mechanical & Electrical Technology Co., Ltd (known as Prosper Group) is a high-tech company specializing in researching, developing, manufacturing, and selling precision slip rings and joysticks. We are located in Hangzhou Linping Economic and Technical Development Zone, a National Development Zone, with over 500 employees. Proser has strong R&D and product design capabilities, obtaining over 100 invention patents and maintaining extensive long-term cooperation with many distinguished research institutes. We are the leader in the slip ring industry in China. We have been recognized as a National High-tech Enterprise in 2013, and a National Specialized, Special and New “Little Giant” Enterprise in 2022.

Our slip rings are widely used in CCTV security cameras, radar systems, aerospace, wind power, automation equipment, robots, medical equipment, engineering machinery, etc. We are devoted to providing high-quality 360° unlimited rotation transmission solutions at competitive costs. In addition to standard electrical slip rings, we also offer slip ring solutions for multi-channel, high-current, high-voltage, high-speed, and high-frequency scenarios. We also provide complex hybrid integration of electricity, gas, liquid, and fiber optic rotary joint solutions according to customer requirements.

Prosper has passed ISO9001, ISO14001, ISO45001, and IATF16949 system certifications, and CE, RoHS, and REACH product certifications. Our sales network covers all provinces and autonomous regions in China. The products and solutions are sold to more than 50 countries worldwide, with over 10 sales agencies abroad. We provide products and technology services to many well-known companies and research institutes, such as ABB, Bosch, Siemens, Schneider, Motorola, Samsung, Panasonic, Huawei, Hikvision, Dahua, Goldwind Technology, Envision Energy, China Aerospace, China Electronics, China Shipbuilding Industry, Chinese Academy of Sciences, etc. We also offer ODM and OEM services to other top-level slip ring companies.

At Prosper, our values are Integrity, Cooperation, Pragmatism, and Innovation. The values are the foundation of our culture and articulate how we work with customers and partners. Keeping these values in mind, we are committed to providing high-quality solutions and becoming a world-renowned company with social responsibility.

企业愿景
立足国内、放眼世界、打造世界知名品牌

企业宗旨
服务客户、造福员工、创造财富、奉献社会

企业精神
诚信、协作、务实、创新

Company Vision
based on home market, looking for world popularity, to build a world–renowned brand

Company purpose
Serve customers, benefit employees, create wealth, contribute society

Company Spirit
Integrity, collaboration, pragmatism, innovation

质量方针
顾客为首、质量为先、追求卓越、全员参与

环境方针
预防为主、节能减排、遵守法规、持续改进、创造优美环境

Quality Policy
Customer First, Quality Foremost, Pursuing Excellence, Total Involvement

Environmental Policy
Put prevention first, save energy and reduce emission, abide by the regulations, improve continuously and create the exquisite environment

生产设备
PRODUCTION EQUIPMENTS

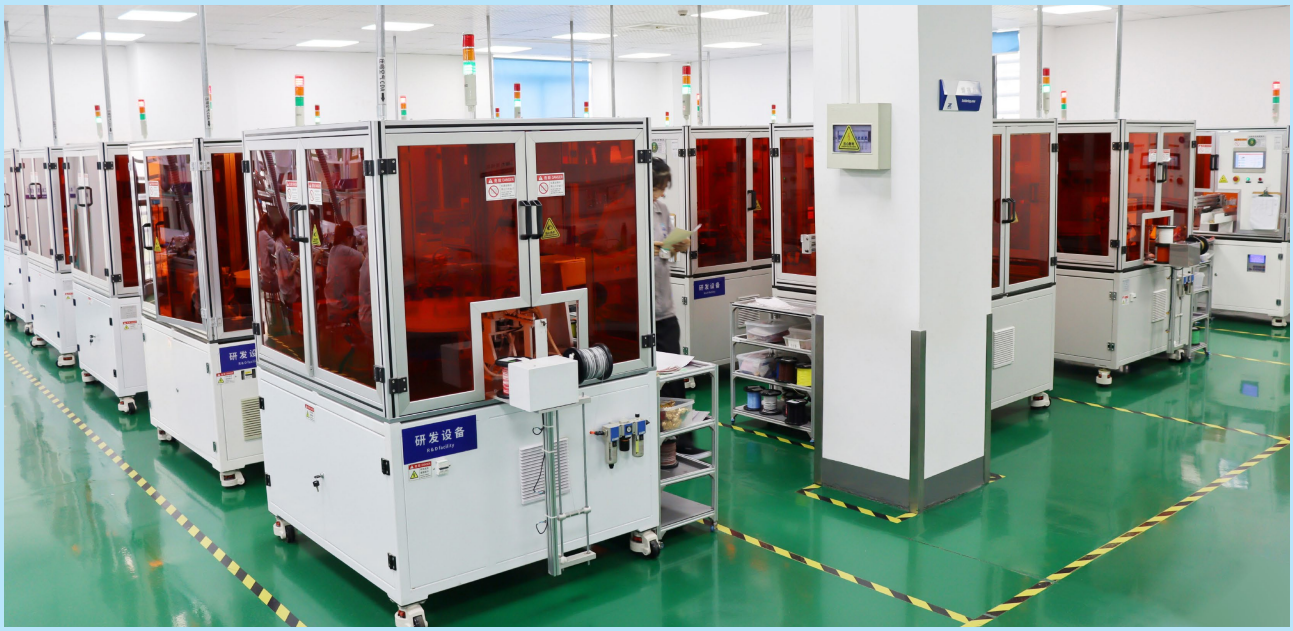
公司投入巨资，
引进国内外先进的生产流水线和技术，
经过几十道工序的悉心打造，
并由实战经验丰富的制造专家全线跟踪，
全面体现国际水准。

完善的技术手段；

一流的检测设备；

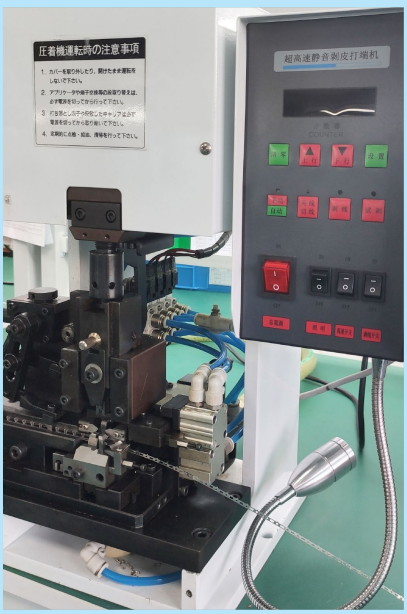
优秀的人才，为顾客制造一流的产品。

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













PROSPER


高新技术企业
证书
企业名称：杭州全盛机电科技有限公司
证书编号：GR202233003854
发证日期：2022 年 12 月 24 日
有效期：三年
批准机关：

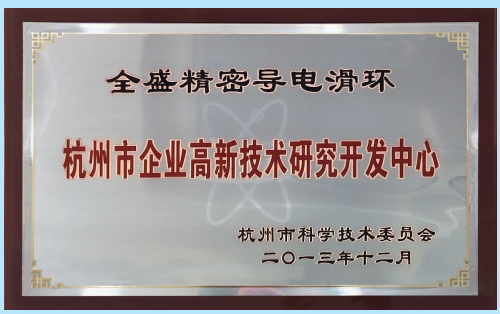

HIKVISION
见远 行更远
See Far, Go Further
最佳服务奖
Best service award
杭州全盛机电科技有限公司
Hangzhou Prosper Mechanical & Electrical Technology Co., Ltd.
杭州海康威视数字技术股份有限公司
二〇二四年


alhua
精实增长 重塑格局
杭州全盛机电科技有限公司
2024年优秀供应商


专精特新
“小巨人”企业
杭州全盛机电科技有限公司
工业和信息化部
有效期：2025年7月1日-2028年6月30日


发明专利证书
局长
申长雨


发明专利证书
局长
申长雨


全盛精密导电滑环
杭州市企业高新技术研究开发中心
杭州市科学技术委员会
二〇一三年十二月


发明专利证书
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申长雨


发明专利证书
局长
申长雨


质量管理体系认证证书
IAOB-1026
杭州全盛机电科技有限公司
IATF 16949:2016 第 1 版
精密导电滑环的设计和生产
北京九鼎国联认证有限公司
CASC

SRM微距型滑环

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≤0.01Ω
- 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

- 高清、红外安防监控设备

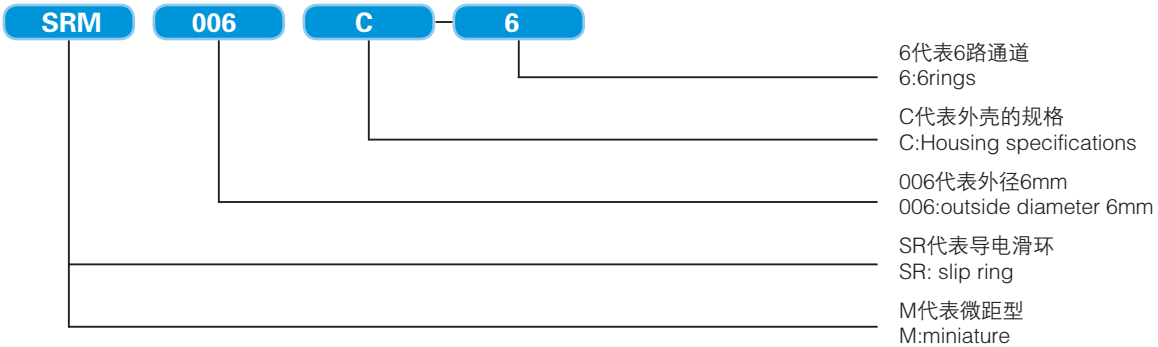
  HD and infrared control CCTV equipment for security
- 惯性导航系统、军民警用飞行吊舱

  Inertial navigation system and military flight pods
- 医疗检测、仪器仪表设备

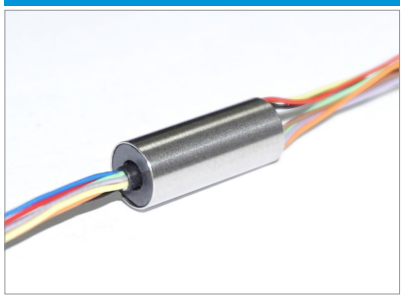
  Medical detecting equipment
- 机器人的操作控制系统、手持云台

  Robotic operation control system,Gimbal Handheld

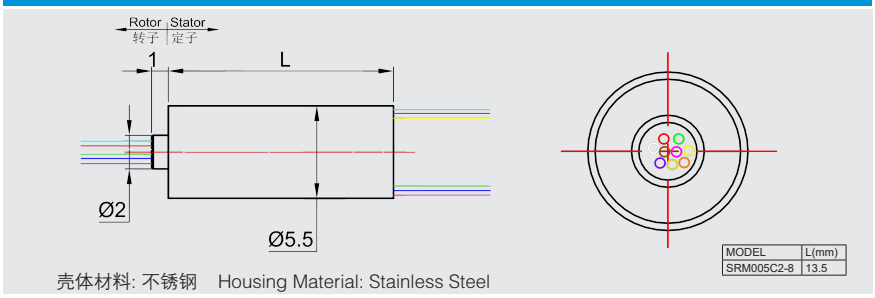
型号选用说明 Model explanation



SRM005C2–8 (C2 Type)



外形尺寸 OUTLINE DIMENSION 单位(UNIT) mm

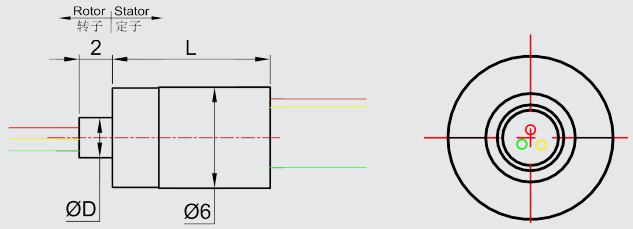


壳体材料: 不锈钢 Housing Material: Stainless Steel

SRM006C2-3/6 (C2 Type)



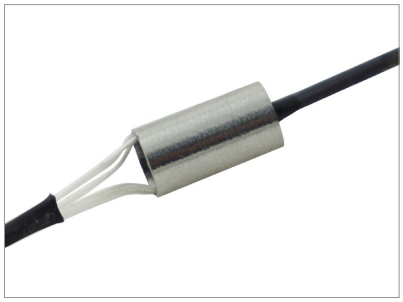
外形尺寸 OUTLINE DIMENSION 单位(UNIT) mm



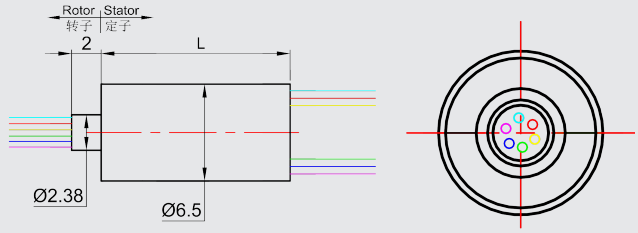
MODEL	D(mm)	L(mm)
SRM006C2-3	2	9.5
SRM006C2-6	2.38	11

壳体材料: 不锈钢 Housing Material: Stainless Steel

SRM006C2-8 (C2 Type)



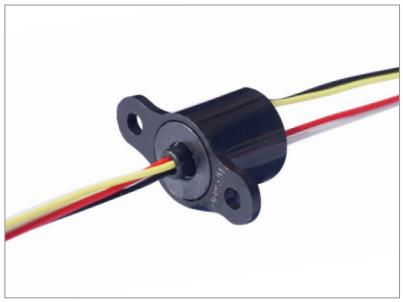
外形尺寸 OUTLINE DIMENSION 单位(UNIT) mm



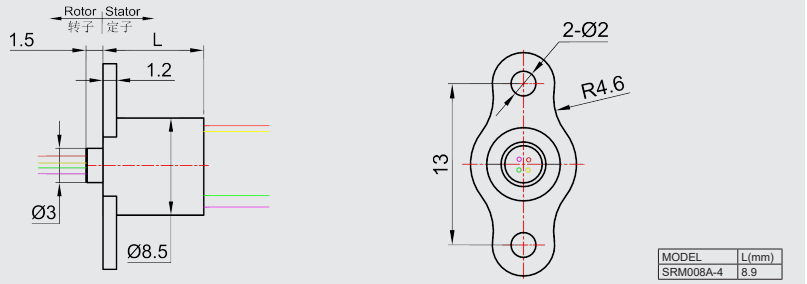
MODEL	L(mm)
SRM006C2-8	12.8

壳体材料: 不锈钢 Housing Material: Stainless Steel

SRM008A-4 (A Type)

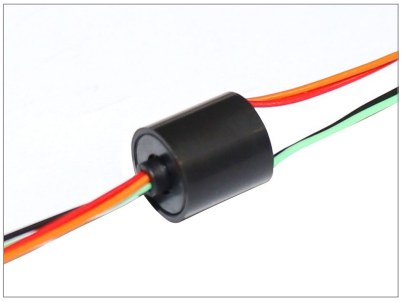


外形尺寸 OUTLINE DIMENSION 单位(UNIT) mm

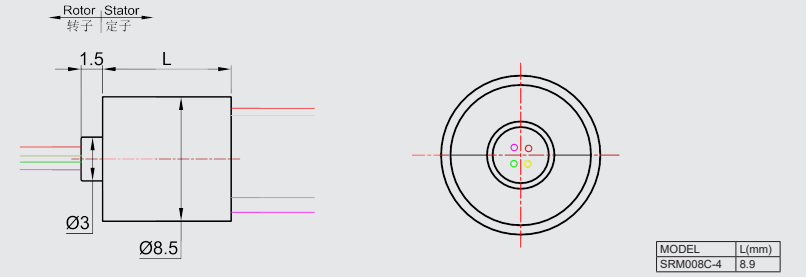


MODEL	L(mm)
SRM008A-4	8.9

SRM008C-4 (C Type)

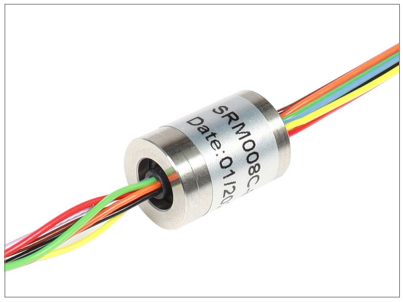


外形尺寸 OUTLINE DIMENSION 单位(UNIT) mm

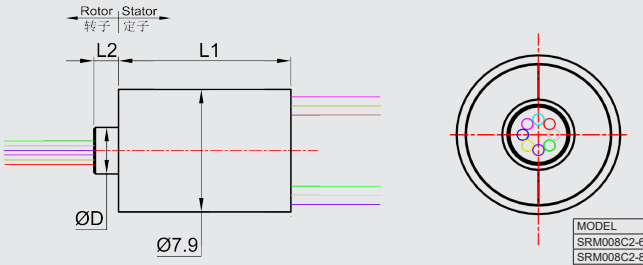


MODEL	L(mm)
SRM008C-4	8.9

SRM008C2-6/8 /10 (C2 Type)



外形尺寸 OUTLINE DIMENSION 单位(UNIT) mm



MODEL	D(mm)	L1(mm)	L2(mm)
SRM008C2-6	3	11.2	3.3
SRM008C2-8	3	11.2	1.6
SRM008C2-10	3	13.5	1.6

壳体材料: 不锈钢 Housing Material: Stainless Steel

电气技术指标 Electrical Parameter

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 Parameter

参数 Specification	数值 Values
额定转速 Rated Speed	0~60rpm
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

SRC 帽型滑环

SRC Capsule Slip Ring



可选项 Optionals

- 路数 Number of Circuits
- 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
- 防盐雾 Salt mist proof
- 工作温度 Operating temperature
- 外壳可反装 Housing can be mounted upside down

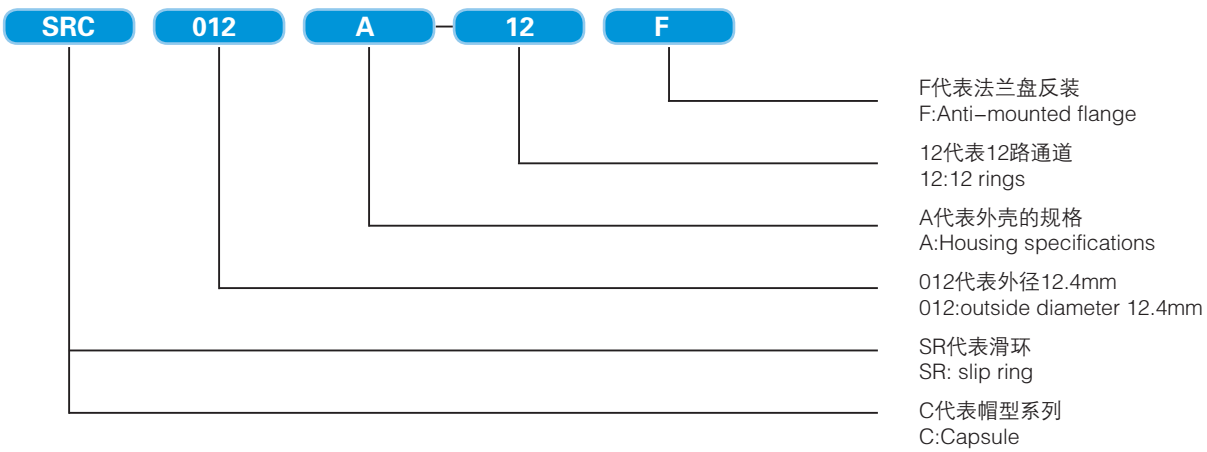
特点 Features

- 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 Parameter 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
- 动态电阻变化值极低<0.01Ω
  Electrical Noise<0.01Ω
- 体积小，结构紧凑
  Small compact construction

典型应用 Typical Applications

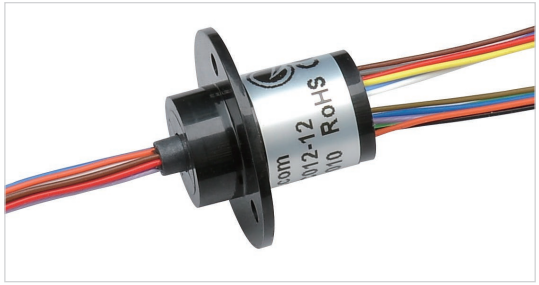
- 闭路监控云台 CCTV pedestal
- 机械手 Automatic arm
- 医疗卫生设备 Medical equipments
- 旋转工作平台Rotary index table
- 流水线生产、工业控制设备
  Production line, industry process equipments

型号选用说明 Model explanation

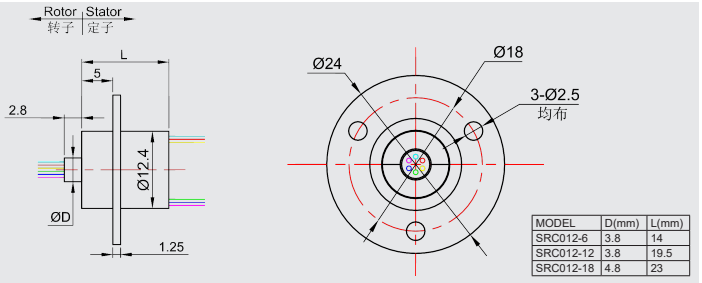


SRC012系列
SRC012 Series

SRC012 标准型 Standard Type



外形尺寸 OUTLINE DIMENSION 单位(UNIT) mm

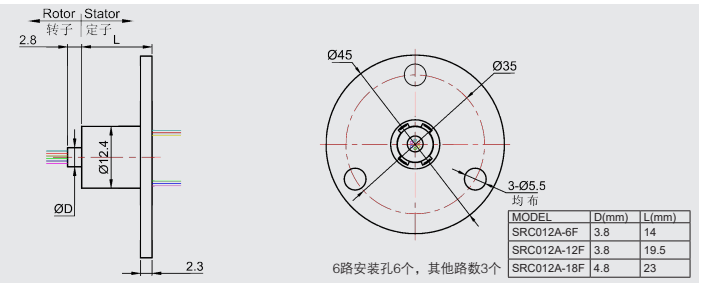


MODEL	D(mm)	L(mm)
SRC012-6	3.8	14
SRC012-12	3.8	19.5
SRC012-18	4.8	23

SRC012 A型法兰反装(A Type Flange reversed)



外形尺寸 OUTLINE DIMENSION 单位(UNIT) mm

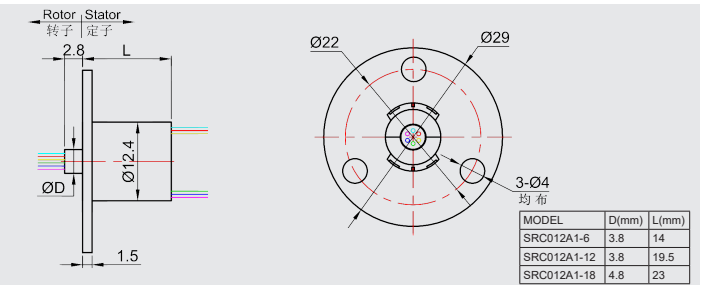


MODEL	D(mm)	L(mm)
SRC012A-6F	3.8	14
SRC012A-12F	3.8	19.5
SRC012A-18F	4.8	23

SRC012 A1型 (A1 Type)

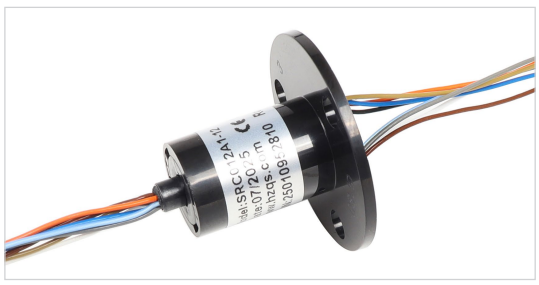


外形尺寸 OUTLINE DIMENSION 单位(UNIT) mm

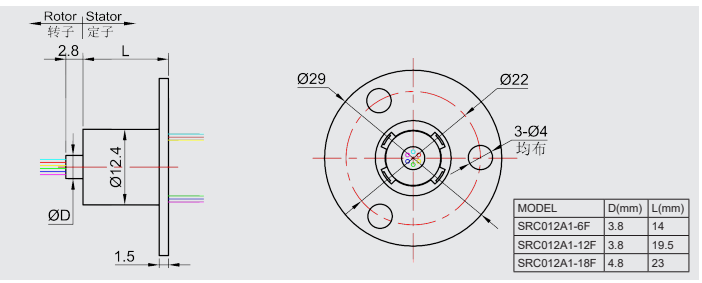


MODEL	D(mm)	L(mm)
SRC012A1-6	3.8	14
SRC012A1-12	3.8	19.5
SRC012A1-18	4.8	23

SRC012 A1型 法兰反装(A1 Type Flange reversed)



外形尺寸 OUTLINE DIMENSION 单位(UNIT) mm

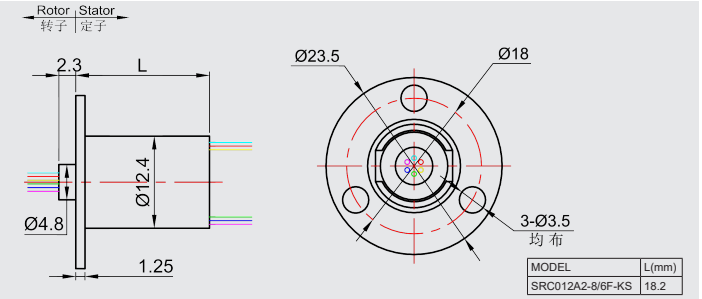


MODEL	D(mm)	L(mm)
SRC012A1-6F	3.8	14
SRC012A1-12F	3.8	19.5
SRC012A1-18F	4.8	23

SRC012 A2-8/6F-KS



外形尺寸 OUTLINE DIMENSION 单位(UNIT) mm

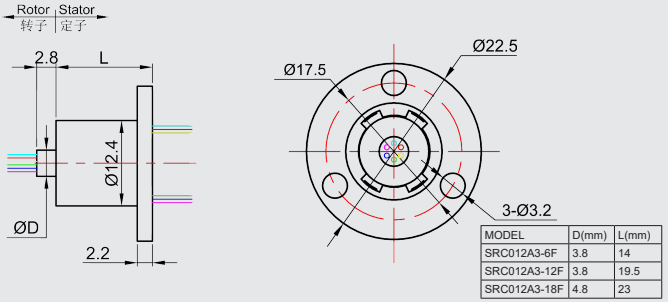


MODEL	L(mm)
SRC012A2-8/6F-KS	18.2

SRC012 A3型法兰反装(A3 Type Flange reversed)



外形尺寸 OUTLINE DIMENSION　单位(UNIT) mm

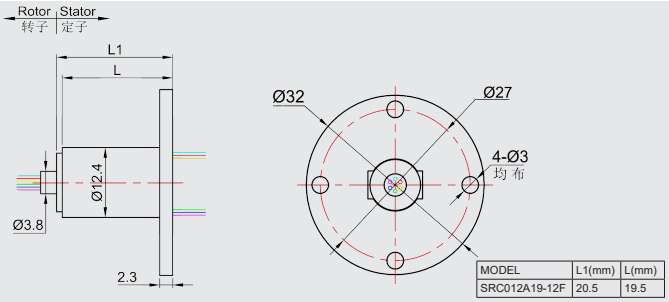


MODEL	D(mm)	L(mm)
SRC012A3-6F	3.8	14
SRC012A3-12F	3.8	19.5
SRC012A3-18F	4.8	23

SRC012 A19型 (A19 Type)

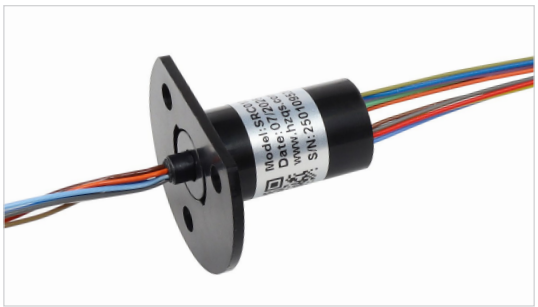


外形尺寸 OUTLINE DIMENSION　单位(UNIT) mm

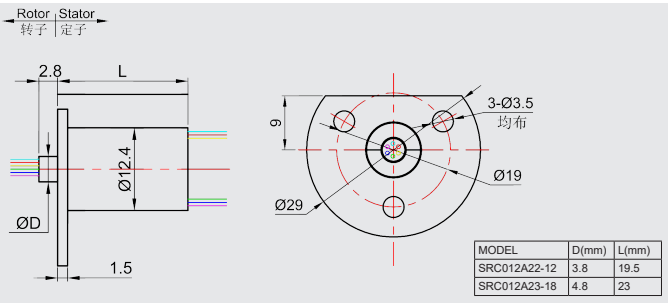


MODEL	L1(mm)	L(mm)
SRC012A19-12F	20.5	19.5

SRC012 A22/A23型 (A22/A23 Type)

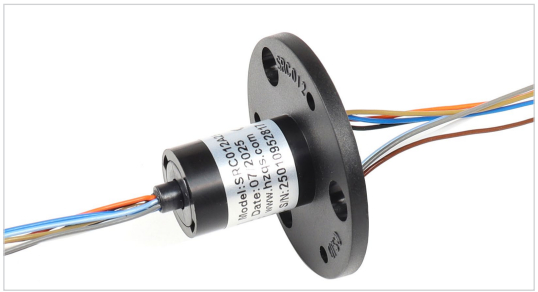


外形尺寸 OUTLINE DIMENSION　单位(UNIT) mm

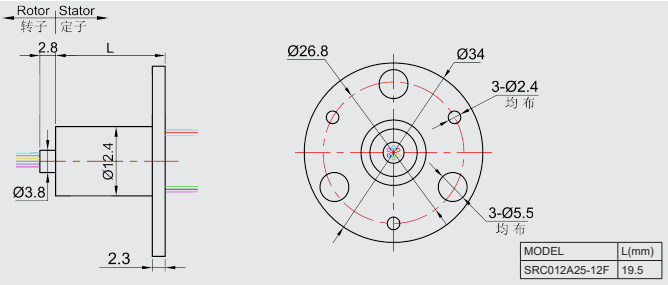


MODEL	D(mm)	L(mm)
SRC012A22-12	3.8	19.5
SRC012A23-18	4.8	23

SRC012 A25型法兰反装 (A25 Type Flange reversed)



外形尺寸 OUTLINE DIMENSION　单位(UNIT) mm

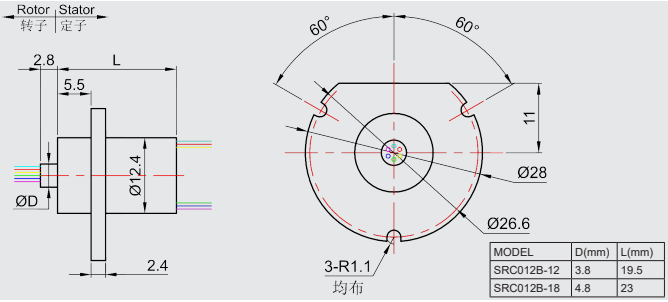


MODEL	L(mm)
SRC012A25-12F	19.5

SRC012 B型 (B Type)



外形尺寸 OUTLINE DIMENSION　单位(UNIT) mm

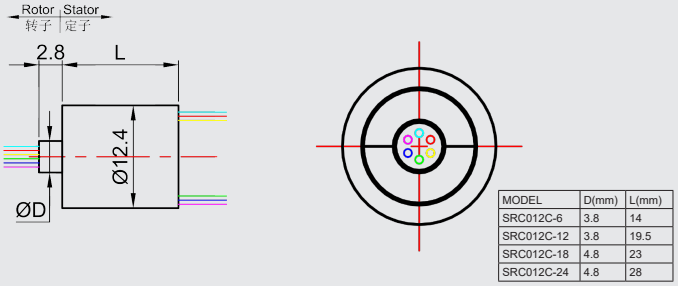


MODEL	D(mm)	L(mm)
SRC012B-12	3.8	19.5
SRC012B-18	4.8	23

SRC012 C型 (C Type)



外形尺寸 OUTLINE DIMENSION 单位(UNIT) mm



MODEL	D(mm)	L(mm)
SRC012C-6	3.8	14
SRC012C-12	3.8	19.5
SRC012C-18	4.8	23
SRC012C-24	4.8	28

电气技术指标 Electrical Parameter

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

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

导线色码表 Lead Color Code

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

SRC012–8	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

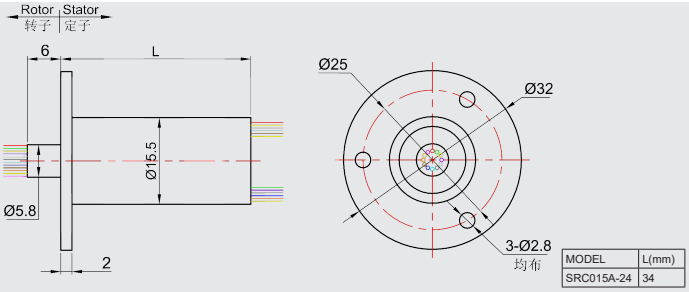
注：8路环道导线颜色与其他同型号不同，后缀F为法兰反装类型，图纸以实际为准

SRC015系列
SRC015 Series

SRC015 A型 (A Type)



外形尺寸 OUTLINE DIMENSION　单位(UNIT) mm

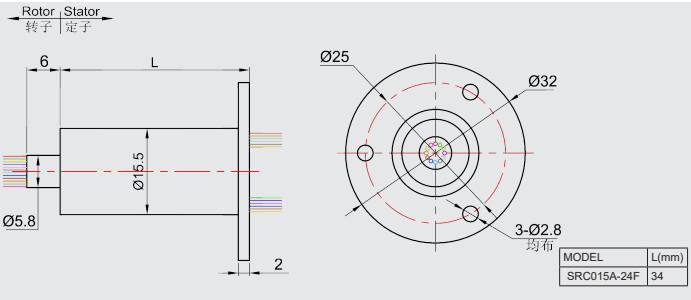


MODEL	L(mm)
SRC015A-24	34

SRC015 A型法兰反装 (A Type Flange reversed)

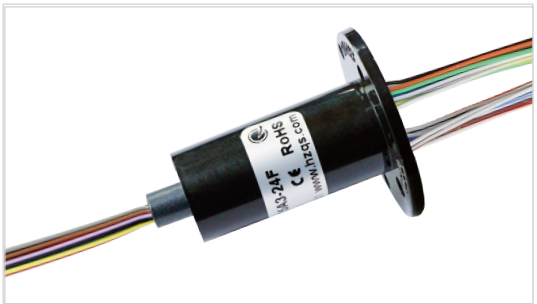


外形尺寸 OUTLINE DIMENSION　单位(UNIT) mm

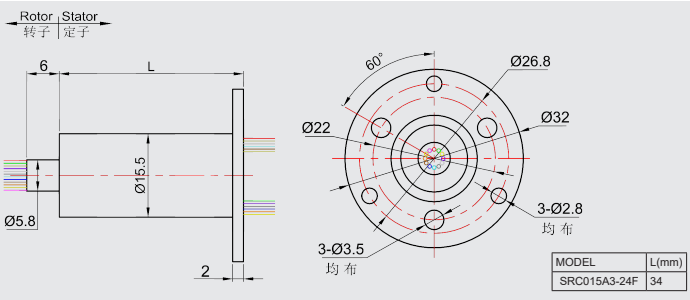


MODEL	L(mm)
SRC015A-24F	34

SRC015 A3型 (A3 Type)



外形尺寸 OUTLINE DIMENSION　单位(UNIT) mm

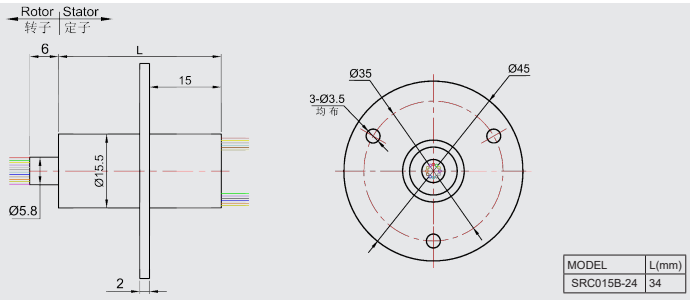


MODEL	L(mm)
SRC015A3-24F	34

SRC015 B型 (B Type)



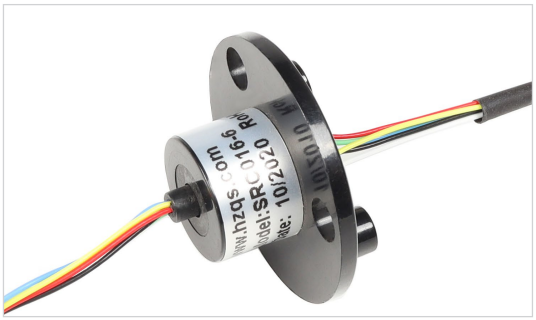
外形尺寸 OUTLINE DIMENSION　单位(UNIT) mm

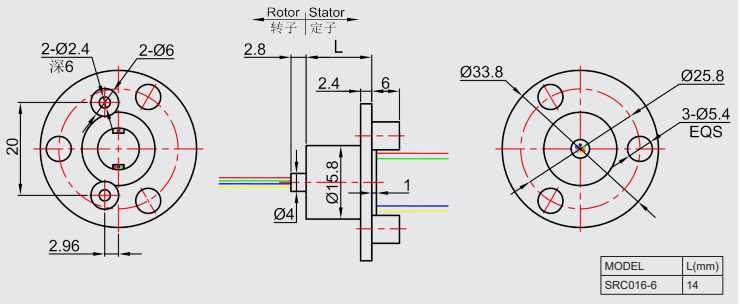


MODEL	L(mm)
SRC015B-24	34

SRC016系列
SRC016 Series

型号 TYPE 标准型(Standard Type)	外形尺寸 OUTLINE DIMENSION 单位(UNIT) mm





电气技术指标 Electrical Parameter

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

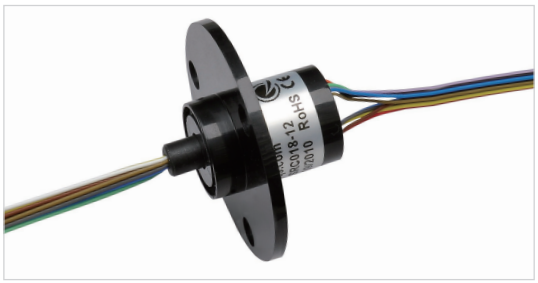
参数 Specification	数值 Values
额定转速 Rated Speed	0~300rpm
工作温度 Temperature Range	–20℃ – +80℃
工作湿度 Operating Humidity	60%RH 或更高 60%RH or higher
接触材料 Contact Material	贵金属 Precious Metals
壳体材料 Housing Material	工程塑料 Engineering Plastics

导线色码表 Lead Color Code

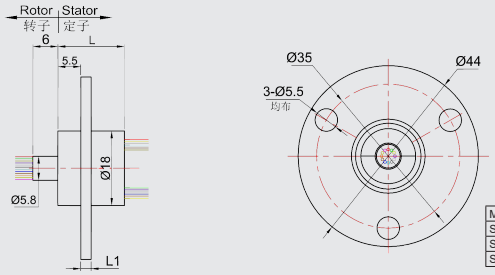
环道	1	2	3	4	5	6	7	8
颜色	红RED	绿GRN	黄YEL	紫PUP	灰GRY	黑BLK	蓝BLU	深蓝DBLU
环道	9	10	11	12	13	14	15	16
颜色	棕BRN	橙ORN	白 WHT	土黄KHK	白–红 WHT–RED	白–黑 WHT–BLK	白–蓝 WHT–BLU	白–紫 WHT–PUP
环道	17	18	19	20	21	22	23	24
颜色	白–棕 WHT–BRN	白–绿 WHT–GRN	白–橙 WHT–ORN	白–黄 WHT–YEL	白–灰 WHT–GRY	黑–红 BLK–RED	黑–蓝 BLK–BLU	黄–绿 YEL–GRN

SRC018系列
SRC018 Series

SRC018 标准型 (Standard Type)



外形尺寸 OUTLINE DIMENSION 单位(UNIT) mm

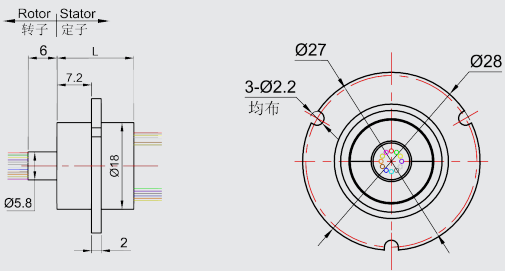


MODEL	L1(mm)	L(mm)
SRC018-6	2.5	16
SRC018-12	2.4	23.7
SRC018-24	2.4	34

SRC018 A1型 (A1 Type)



外形尺寸 OUTLINE DIMENSION 单位(UNIT) mm

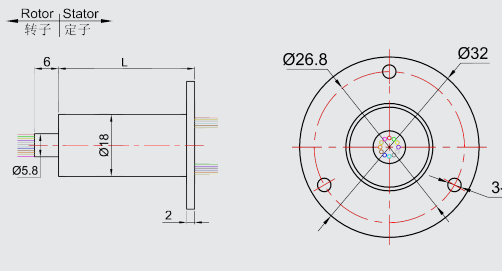


MODEL	L(mm)
SRC018A1-6	16
SRC018A1-12	23.7

SRC018 A1型法兰反装 (A1 Type Flange reversed)

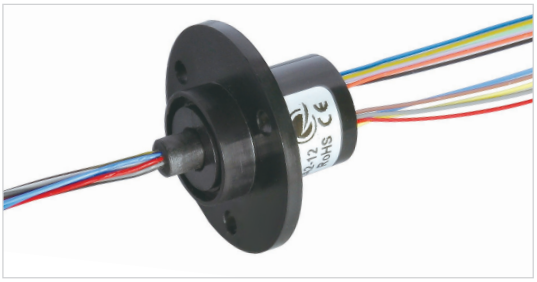


外形尺寸 OUTLINE DIMENSION 单位(UNIT) mm

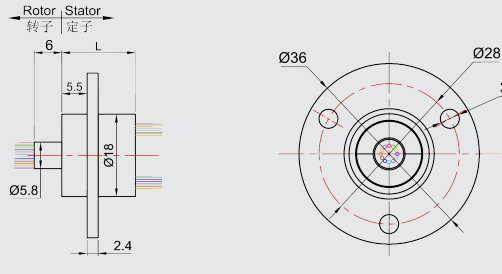


MODEL	L(mm)
SRC018A1-24F	34

SRC018 A2型 (A2 Type)



外形尺寸 OUTLINE DIMENSION 单位(UNIT) mm

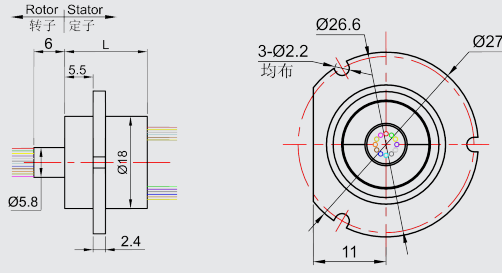


MODEL	L(mm)
SRC018A2-6	16
SRC018A2-12	23.7

SRC018 B型 (B Type)



外形尺寸 OUTLINE DIMENSION 单位(UNIT) mm

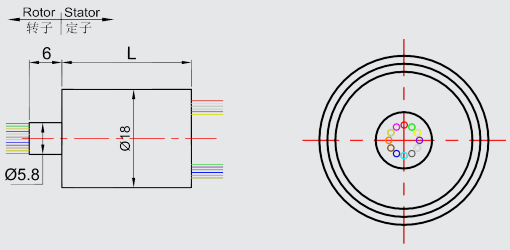


MODEL	L(mm)
SRC018B-6	16
SRC018B-12	23.7
SRC018B-18	31.5
SRC018B-24	34

SRC018 C型 (C Type)



外形尺寸 OUTLINE DIMENSION　单位(UNIT) mm



MODEL	L(mm)
SRC018C-12	23.7
SRC018C-24	34

电气技术指标 Electrical Parameter

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

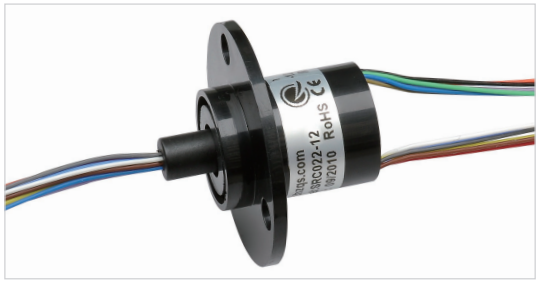
参数 Specification	数值　Values
额定转速 Rated Speed	0~300rpm
工作温度 Temperature Range	–20℃ – +80℃
工作湿度 Operating Humidity	60%RH 或更高 60%RH or higher
接触材料 Contact Material	贵金属 Precious Metals
壳体材料 Housing Material	工程塑料 Engineering Plastics

导线色码表 Lead Color Code

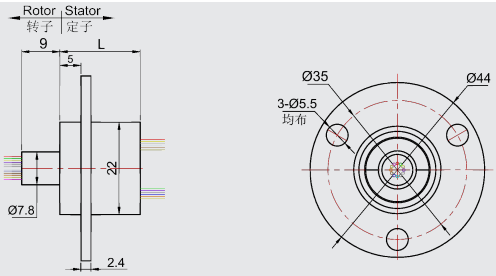
环道	1	2	3	4	5	6	7	8
颜色	红RED	绿GRN	黄YEL	紫PUP	灰GRY	黑BLK	蓝BLU	深蓝DBLU
环道	9	10	11	12	13	14	15	16
颜色	棕BRN	橙ORN	白 WHT	土黄KHK	白–红 WHT–RED	白–黑 WHT–BLK	白–蓝 WHT–BLU	白–紫 WHT–PUP
环道	17	18	19	20	21	22	23	24
颜色	白–棕 WHT–BRN	白–绿 WHT–GRN	白–橙 WHT–ORN	白–黄 WHT–YEL	白–灰 WHT–GRY	黑–红 BLK–RED	黑–蓝 BLK–BLU	黄–绿 YEL–GRN

SRC022系列
SRC022 Series

SRC022 标准型 (Standard Type)

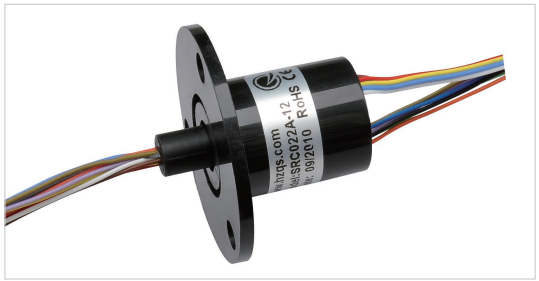


外形尺寸 OUTLINE DIMENSION　单位(UNIT) mm

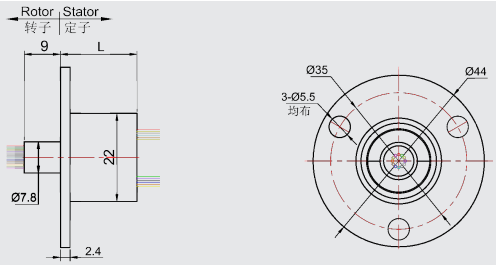


MODEL	L(mm)
SRC022-6	19
SRC022-12	28
SRC022-15	29.5
SRC022-18	33.4
SRC022-24	41.2
SRC022-36	56.8

SRC022 A型 (A Type)



外形尺寸 OUTLINE DIMENSION　单位(UNIT) mm

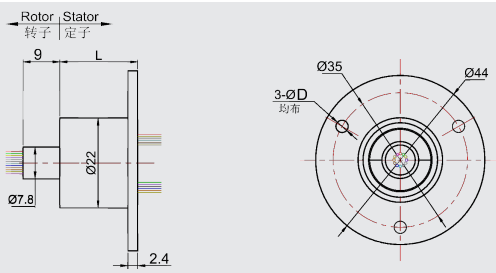


MODEL	L(mm)
SRC022A-6	19
SRC022A-12	28
SRC022A-15	29.5
SRC022A-18	33.4
SRC022A-36	56.8

SRC022 A型法兰反装 (A Type Flange reversed)



外形尺寸 OUTLINE DIMENSION　单位(UNIT) mm

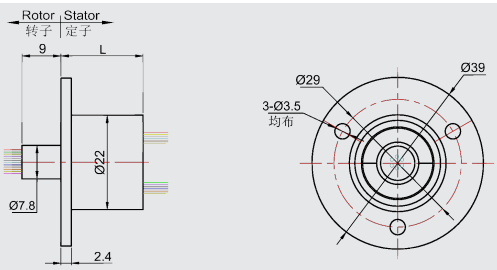


MODEL	D(mm)	L(mm)
SRC022A-6F	5.5	19
SRC022A-12F	5.5	28
SRC022A-15F	3.2	29.5
SRC022A-24F	3.2/5.5	41.2

SRC022 A1型 (A1 Type)



外形尺寸 OUTLINE DIMENSION　单位(UNIT) mm

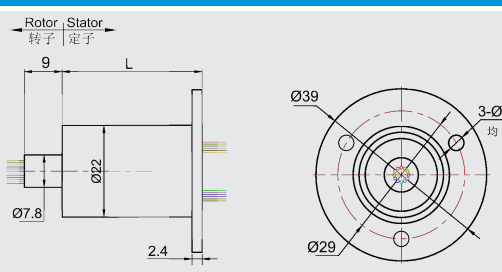


MODEL	L(mm)
SRC022A1-6	19
SRC022A1-12	28
SRC022A1-15	29.5
SRC022A1-18	33.4
SRC022A1-24	41.2
SRC022A1-30	49.2
SRC022A1-36	56.8

SRC022 A1型法兰反装 (A1 Type Flange reversed)



外形尺寸 OUTLINE DIMENSION　单位(UNIT) mm

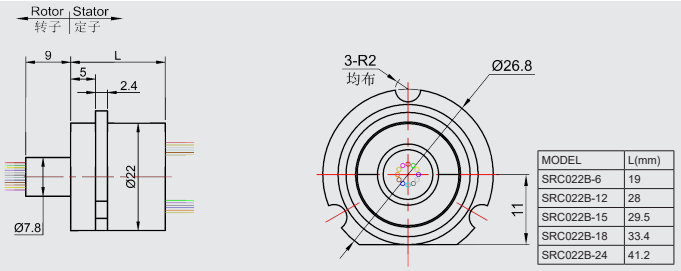


MODEL	L(mm)
SRC022A1-18F	33.4
SRC022A1-24F	41.2

SRC022 B型 (B Type)



外形尺寸 OUTLINE DIMENSION 单位(UNIT) mm

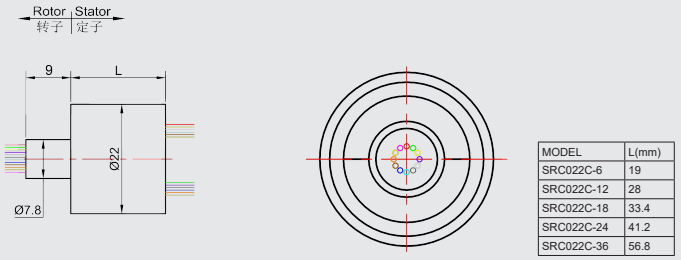


MODEL	L(mm)
SRC022B-6	19
SRC022B-12	28
SRC022B-15	29.5
SRC022B-18	33.4
SRC022B-24	41.2

SRC022 C型 (C Type)



外形尺寸 OUTLINE DIMENSION 单位(UNIT) mm

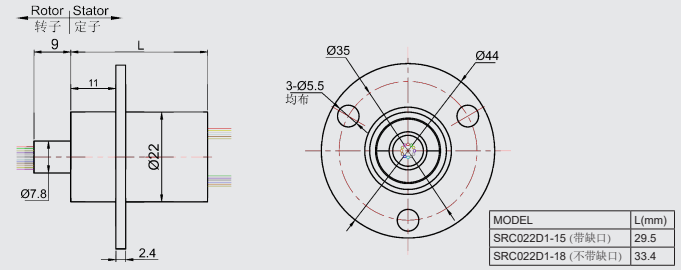


MODEL	L(mm)
SRC022C-6	19
SRC022C-12	28
SRC022C-18	33.4
SRC022C-24	41.2
SRC022C-36	56.8

SRC022 D1型 (D1 Type)

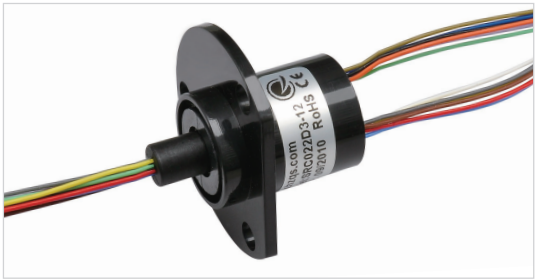


外形尺寸 OUTLINE DIMENSION 单位(UNIT) mm

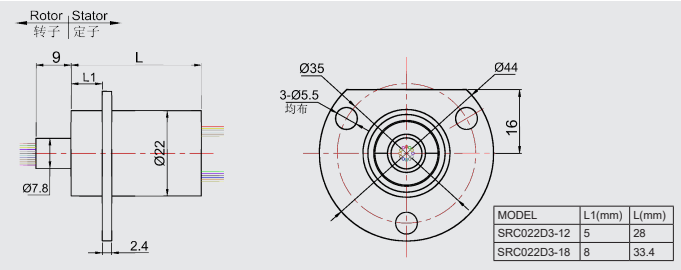


MODEL	L(mm)
SRC022D1-15 (带缺口)	29.5
SRC022D1-18 (不带缺口)	33.4

SRC022 D3型 (D3 Type)



外形尺寸 OUTLINE DIMENSION 单位(UNIT) mm

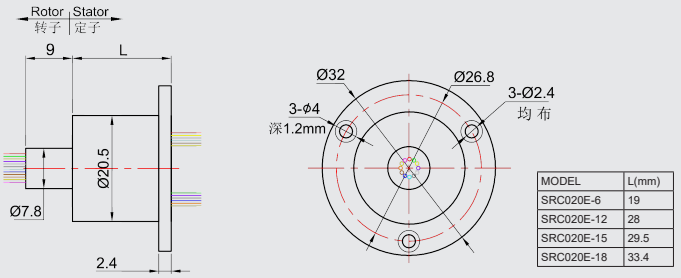


MODEL	L1(mm)	L(mm)
SRC022D3-12	5	28
SRC022D3-18	8	33.4

SRC020 E型 (E Type)



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

电气技术指标 Electrical Parameter

参数 Specification	数值 Values
额定电压 Rated Voltage	240VDC/240VAC
额定电流 Rated Current	标准每路为2A 2A/ring
导线规格 Lead Size	AWG26 彩色镀银铁氟龙绝缘 AWG26, 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	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 Parameter

参数 Specification	数值 Values
额定转速 Rated 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

导线色码表 Lead Color Code

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

注：30路分两组，颜色为1–15,每组用套管作为标识；36路分两组，颜色为1–18,每组用套管作为标识，以此类推。
8路产品环道导线颜色和其他同型号不同

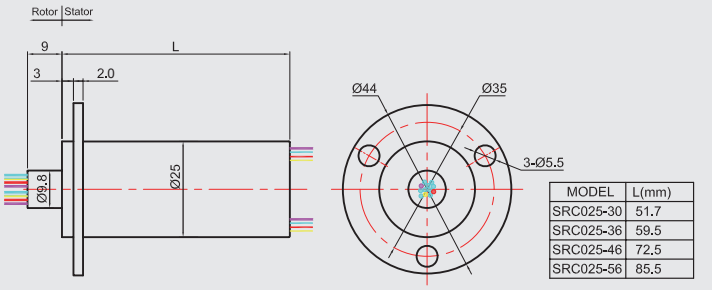
SRC022–8	1. 灰GRY	2. 黑BLK	3. 蓝BLU	4. 深蓝DBLU	5. 棕BRN	6. 橙ORN	7. 白WHT	8. 土黄KHK

SRC025系列
SRC025 Series

型号 TYPE 标准型(Standard Type)



外形尺寸 OUTLINE DIMENSION 单位(UNIT) mm



MODEL	L(mm)
SRC025-30	51.7
SRC025-36	59.5
SRC025-46	72.5
SRC025-56	85.5

电气技术指标 Electrical Parameter

参数 Specification	数值 Values
额定电压 Rated Voltage	240VDC/240VAC
额定电流 Rated Current	标准每路为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, PTFE 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

机械技术指标 Mechanical Parameter

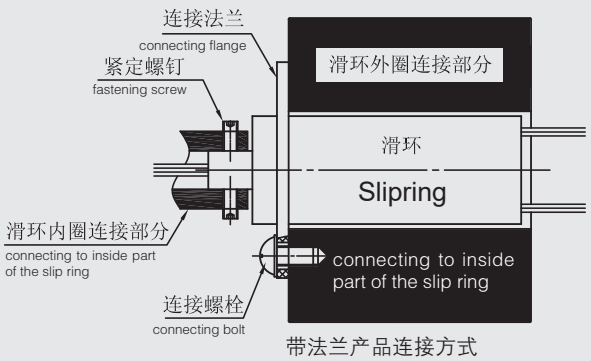
参数 Specification	数值 Values
额定转速 Rated Speed	0~300rpm
工作温度 Temperature Range	–20℃ – +80℃
工作湿度 Operating Humidity	60%RH 或更高 60%RH or higher
接触材料 Contact Material	贵金属 Precious Metals
壳体材料 Housing Material	工程塑料 ABS / 铝合金 Aluminum

规格表 Specification List

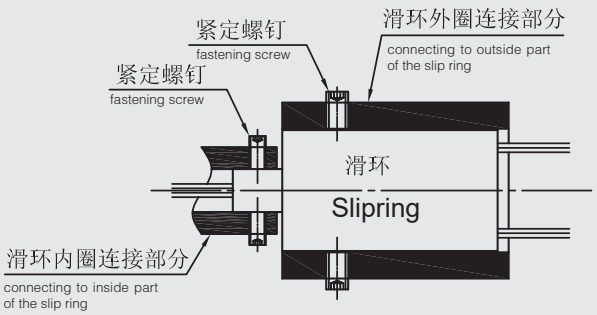
型 号 Type	路 数 NO. of Rings	额定电流（A） Rated Current Amps			信号RG178或RG179 (RG178 or RG179)	尺寸 Size
		2	6	10		外径 x 长度 (OD x L)
SRC025–30	30	30				Φ25×51.7
SRC025–30–4P/18S	22	18	4			Φ25×51.7
SRC025–30–3P/15S	18	15		3		Φ25×51.7
SRC025–36	36	36				Φ25×59.5
SRC025–36–4P/24S	28	24	4			Φ25×59.5
SRC025–36–4P/20S/2RG178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

- 标准2A/路，2路合并得4A，3路合并得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

安装方式 Installation Method



带法兰产品连接方式
Installation of slip rings with flange



C型产品连接方式
Installation of type C slip ring

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后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 been protected
- SRC032及SRC045系列产品可参照该连接方式 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 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 environment is bad, more protection measures should be taken

SRF 高清滑环

SRF HD Slip Ring

特点 Features

- 掌握设计及制造的关键技术，拥有自主知识产权，已获得国家发明专利，专利号为：201*****39117
  Master the critical technology for designing and producing the slip ring, possess the independent intellectual property, received the state invention patent.And the patent number is:201*****39117
- 完全满足360度无限制旋转的高清图像实时传输 HD image real-transmission with 360° continuous rotation
- 完整的产品规格可满足客户的要求 Various slip ring types could satisfy customers'requirements
- 超长的使用寿命 Long lifetime

用途 Applications

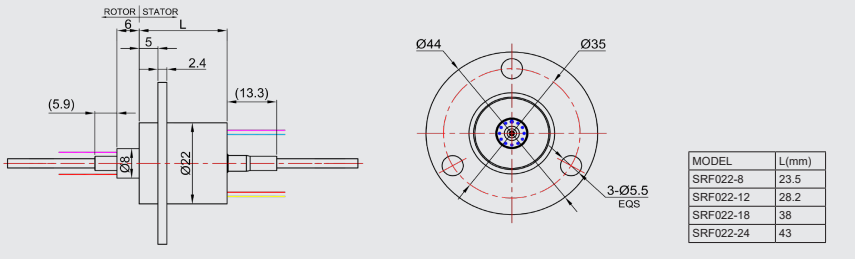
- 该滑环是专门为满足高速串行数字信号或模拟信号传输而开发的产品，可适用于1080P、1080I等HD-SDI高清视频信号传输，传输速率可达3Gbps/3GHz或更高。该款产品包含1路高频信号通道和8、12、18或24路常规信号通道，高频信号采用的是50Ω/75Ω特性阻抗射频同轴结构，配MMCX、SMA、MCX、BNC、SMB接头（其他指定接插件可转接，导线规格RG174、RG178、RG179、RG316等可选）；常规信号通路可用于电源、控制信号或其他低频信号的传输。

The slip ring is designed for transfering high speed serial digital signal or analog signal. It could be applied for transfering1080P or 1080I HD-SDI etc., and its transmission rate could acheive 3Gbps/3GHz or higher. It is made up of 8 、12、18or24 normal signal rings and 1 RF Coaxial Connector with 50 ohm、70 ohm specific impedance and MMCX、SMA、MCX、BNC、SMB joints(Other requested connector could be applied).And the coaxial cable could be RG174、RG178、RG179、RG316. And normal signal rings could be used for transfering power, control signal or other low frequency signals.

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



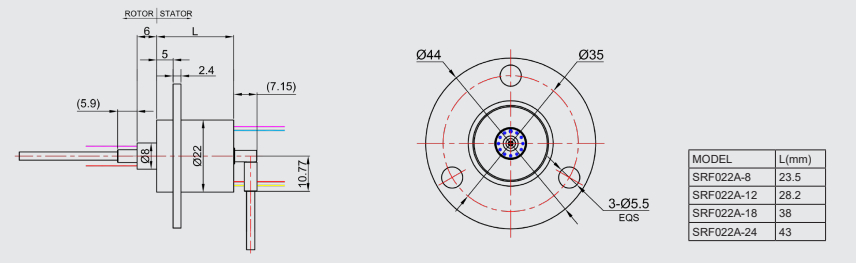
标准型Standard Type SRF022



MODEL	L(mm)
SRF022-8	23.5
SRF022-12	28.2
SRF022-18	38
SRF022-24	43



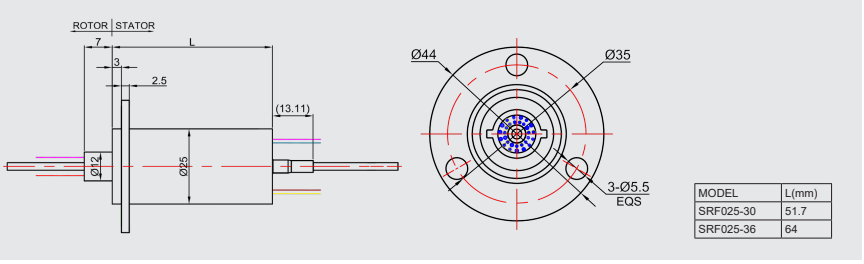
A型("A"Type) SRF022A



MODEL	L(mm)
SRF022A-8	23.5
SRF022A-12	28.2
SRF022A-18	38
SRF022A-24	43



C型("C"Type) SRF025



MODEL	L(mm)
SRF025-30	51.7
SRF025-36	64

注： 1、外形尺寸与实物尺寸会有细微差别，以实物尺寸为准。 2、本系列产品壳尺寸与SRC022系列一样，可参照选型。

Note: 1. Please comply with the actual dimensions if there is any minute discrepancy between the outline drawing and the actual dimensions.
2. The housing size of the HD slipring is the same as the SRC022 series. Please refer to Prosper product manual to choose the proper housing type.

电滑环性能参数 Specification For The Slipring

参数 Specification	数值 Values
额定电压 Rated Voltage	240VDC/240VAC
额定电流 Rated Current	标准每路为2A 2A/ring
导线规格 Lead Size	AWG26 彩色镀银铁氟龙绝缘 AWG26, 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	500VAC@50Hz，60s
绝缘电阻 Insulation Resistance	1000MΩ/500VDC
动态电阻变化值 Electrical Noise	＜0.01Ω

RF射频参数 Specification For RF Coaxical Connector

参数 Specification	数值 Values	
	特性阻抗 50Ω（Specific Impedance）	特性阻抗 75Ω（Specific Impedance）
射频线规格 Cable Type	RG174、RG178、RG316 或根据客户要求提供（or as request）	RG179 或根据客户要求提供（or as request）
接头类型Connector Type	MMCX、SMA 或根据客户要求提供（or as request）	MCX、BNC、SMB 或根据客户要求提供（or as request）
频率范围 Frequency Range	DC–3GHz	
传输速率 Transmission Rat	> 3Gbps	

机械技术指标 Mechanical Parameter

参数 Specification	数值 Values
额定转速 Rated Speed	0–100rpm
工作温度 Temperature Range	–20℃ – +80℃
工作湿度 Operating Humidity	60%RH 或更高 60%RH or higher
接触材料表面 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

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

注：30路分两组，颜色为1–15,每组用套管作为标识；36路分两组，颜色为1–18,每组用套管作为标识，以此类推。

8路产品环道导线颜色和其他同型号不同

SRC022–8	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

以太网滑环

Ethernet Slip Ring



以太网滑环与普通滑环相比较存在的优势 Advantages

- 能过百兆以太网及千兆以太网 Can transfer 100 Base-T and 1000 Base-T Ethernet
- 以太网滑环可以同时包含：以太网，信号环，动力环以及同轴电缆
  Available with multiple Ethernet, power and signal combinations

以太网滑环测试几个重要的参数 Important Parameter for testing Ethernet slip ring

- 近端串音 Crosstalk
- 插入损耗 Insertion loss
- 回波损耗 Return loss
- 近端衰减串音比 ACR-N

电气技术指标 Electrical Parameter

参数 Specification	数值 Values
额定电压 Rated Voltage	0~240VDC/VAC
额定电流 Rated Current	标准每路为2A 2A/ring
导线规格 Lead Size	彩色铁氟龙绝缘, Color coded, PTFE insulated wire
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 Parameter

参数 Specification	数值 Values
工作速度 Operating 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
壳体材料 Housing Material	工程塑料/铝合金 Engineering Plastics/Aluminum

规格表 Specification List

产品型号 Type	尺寸 Size 外径 x 长度 (OD x L)	通百兆以太网 Ethernet 100Base-T	通千兆以太网 Ethernet 1000Base-T	产品型号 Type	尺寸 Size 外径 x 长度 (OD x L)	通百兆以太网 Ethernet 100Base-T	通千兆以太网 Ethernet 1000Base-T
SRC012-6	Φ12×14	√		SRC022-18	Φ22×33.4	√	√
SRC012-12	Φ12.4×19.5	√		SRC022-24	Φ22×41.2	√	√
SRC012-18	Φ12.4×23	√	√	SRC022-30	Φ22×49.2	√	√
SRC015-24	Φ15.5×34	√	√	SRC022-36	Φ22×56.8	√	√
SRC018-6	Φ18×15.9	√		SRC025-30	Φ25×51.7	√	√
SRC018-12	Φ18×23.7	√	√	SRC025-36	Φ25×59.5	√	√
SRC018-14	Φ18×25.5	√	√	SRC025-46	Φ25×72.5	√	√
SRC022-6	Φ22×19	√		SRC025-56	Φ25×85.5	√	√
SRC022-12	Φ22×28	√	√	SRF025-30	Φ25×51.7	√	√
SRC022-15	Φ22×29.5	√	√	SRF025-36	Φ25×64	√	√

型号可参照SRC帽型系列滑环，凡满8路通道均可做成以太网滑环。

Any SRC series slip ring can be Ethernet types as long as with more than 8 circuits.

全盛机电
控制杆系列

Joystick



特点 Features

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

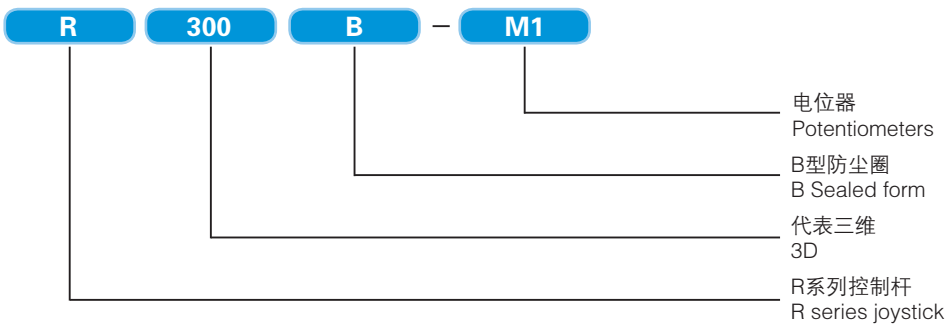
可选项 Optionals

- 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

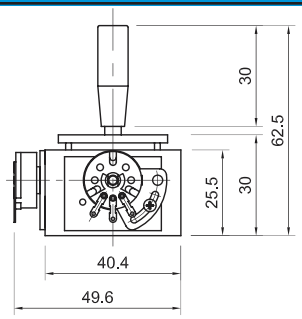
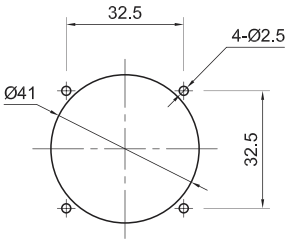
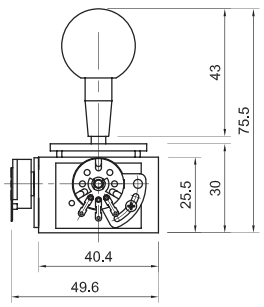
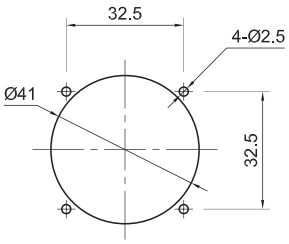
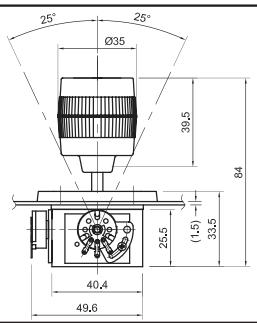
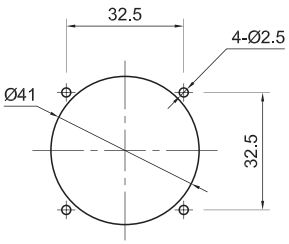
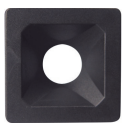
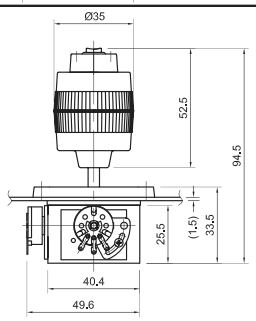
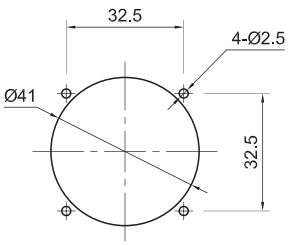
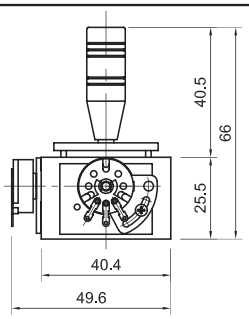
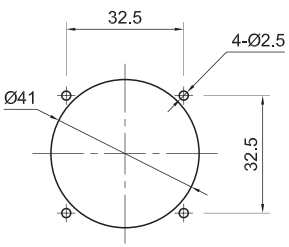
- 移动摄像和CCTV控制系统
  Move photography CCTV control system
- 测试计量设备
  Measurement equipments
- 医药成像系统
  Medical imaging system
- 自动化机器控制
  Automative control
- 视频编辑及生产设备
  Video editing equipments
- 工业及科学用仪表
  Industrial Instruments

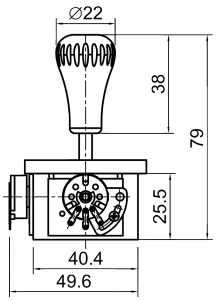
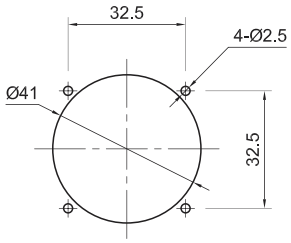
型号选用说明
Model explanation



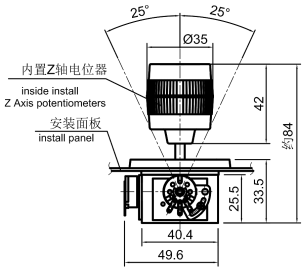
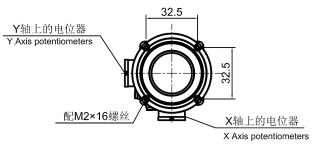
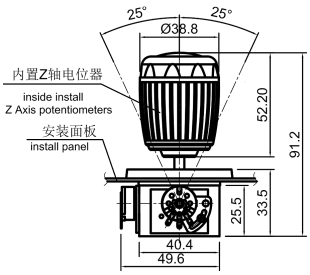
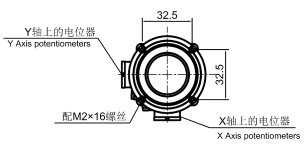
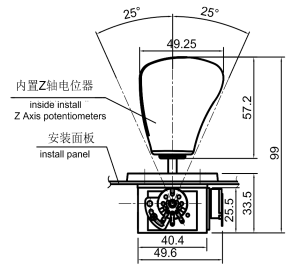
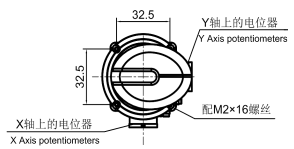
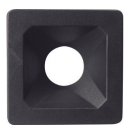
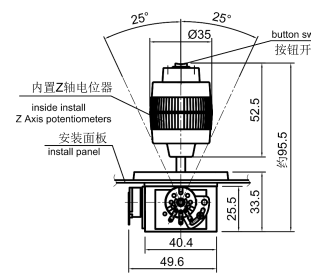
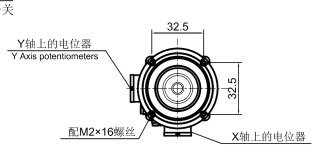
R系列控制杆
R series

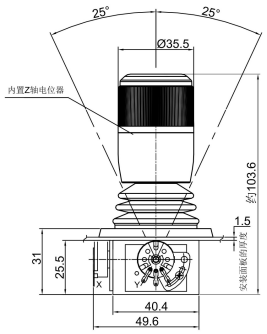
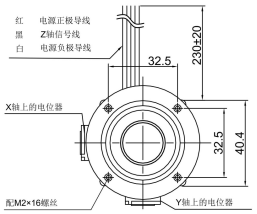
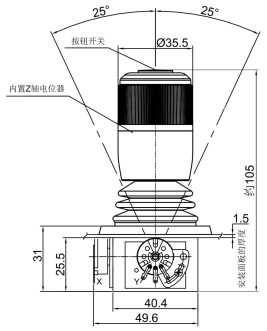
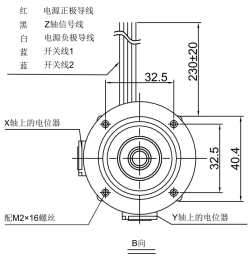
二维（2D）

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

型　号　Type	防尘圈 Seal form	电 位 器 Potentiometers	外形尺寸 (Outline dimension)	单　位 (Unit) mm
R 205 		M1: 5KΩ 220° M2: 5KΩ 50° M3: 10KΩ 220° M4: 10KΩ 50°		 安装孔尺寸 Install hole size

三维（3D）/ 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 300 	 A	M1: 5KΩ 220° M2: 5KΩ 50° M3: 10KΩ 220° M4: 10KΩ 50°		 安装孔尺寸 Install hole size
R 301 	 B			 安装孔尺寸 Install hole size
R 302 	 C			 安装孔尺寸 Install hole size
R 400 	 D			 安装孔尺寸 Install hole size

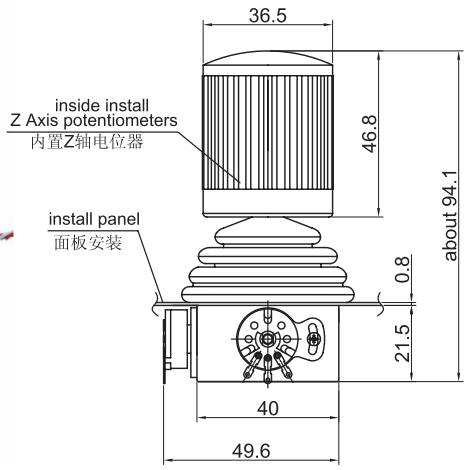
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R 304 	 E	M1: 5KΩ 220° M2: 5KΩ 50° M3: 10KΩ 220° M4: 10KΩ 50°	  安装孔尺寸 Install hole size
R 401 			  安装孔尺寸 Install hole size

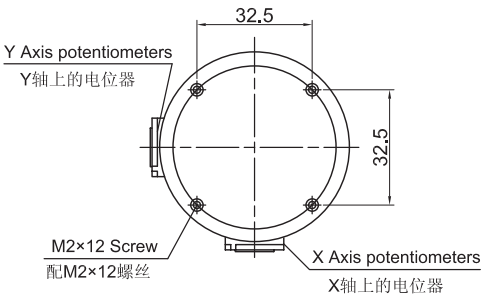
J系列控制杆
J Series Joysticks

外形尺寸Outline Dimension



J300控制杆





型号选用说明请参照P27页R系列摇杆

电气技术指标 Electrical Parameter

参数 Specification	数值 Values
电阻值 Resistance	5KΩ，10 KΩ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	±25⁰
Z轴电转角 Z Axis Rotating angle	±45⁰
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 sliver 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 Parameter

参数 Specification	数值 Values
复位的误差率 Reset Error Rete	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℃ – 80℃

H系列控制杆
H Series Joysticks

工作原理 Working Principle

采用霍尔效应传感器，以磁场为工作媒体，将物体的运动量转变为模拟或数字电压的形式输出，使之具备传感或开关的功能。

Effected sensor will be applied.Working in the magnetic filed,in which the removement of the joystick will be transferred and output as a digital voltage,which made joysticks work as sensors and joysticks.

特点 Features

H系列控制杆是一个非接触式，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，应用于对准确度和精密度要求比较高场合。

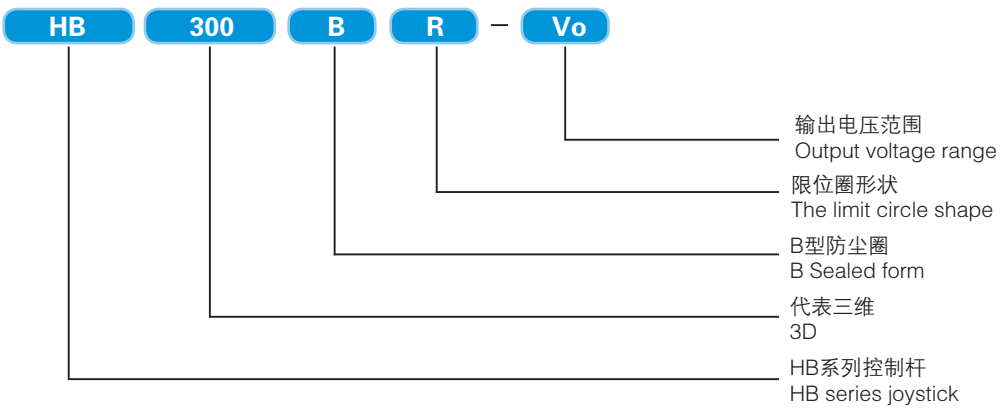
H joystick is a non–contact joystick with long life time. It applies hall effect sensor, handling soft, easy for cleaning, suitable for application where high accuracy and precision is required.

典型应用 Typical Applications

广泛应用于移动摄像和CCTV控制系统，测试计量设备，医药成像系统，自动化机器控制，视频编辑及生产设备，工业及科学用仪表等领域。

Hall joystick is widely applied to move photography CCTV control system,measurement equipments,medical imaging system,automative control,video editing equipment,industrial and scientific instruments ,etc.

型号选用说明 Model explanation



电气技术指标 Electrical Parameter

参数 Specification	数值 Values
摆动角度 Pendulum angle	± 18°
使用寿命 Lifetime	大于100万次
电源电压 Power voltage	5.0 ± 0.5VDC
电源电流 Power current	20mA max/axis
输出电压 Output voltage	0~5VDC
输出线性误差 Output Tolerance	± 2%
工作温度 Working temperature	–20℃~+70℃
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 sliver 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
橙色Orange=开关Switch

输出电压 Output voltage

Vo	霍尔型，电源电压Vs为5VDC,0%~50%~100%Vs电压输出 Hall type, power voltage is 5vdc,0%~50%~100%Vs voltage output
V1	霍尔型，电源电压Vs为5VDC,10%~50%~90%Vs电压输出 Hall type, power voltage is 5vdc, 10%~50%~90%Vs voltage output

HB系列控制杆
HB Series Joystick



主要特点 Features

- 控制盒体内运用单独的非接触式霍尔元件实现双轴
  It can control dual axis by using contactless hall component
- 内部无连接导线
  No inside connecting wire
- 12针插头端子输出
  12 Pin connector output
- 控制盒体基座高度降低了8mm
  Height of control body reduced by 8mm
- 性能更稳定
  More stable performance
- 寿命更长
  Longer life



HB200

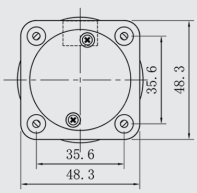


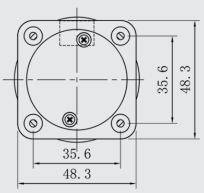
HB300

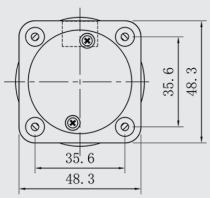


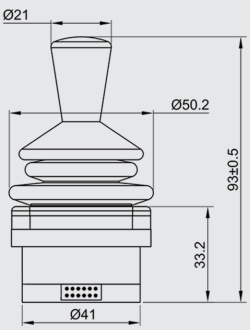
HB400

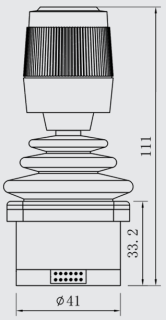
外形尺寸 Outline Dimension

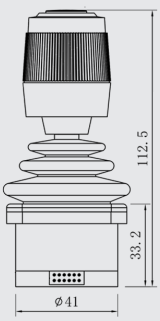


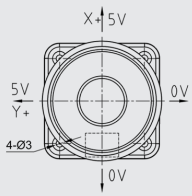




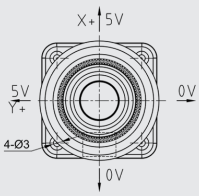




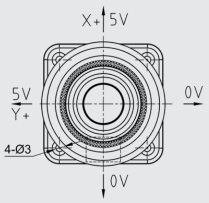




HB200



HB300



HB400

霍尔摇杆USB接口的相关说明
Specification of USB interface for Hall joystick

简介 Introduction

可在window XP及window7系统下通过USB接口连接，直接被系统识别为hid joystick设备，实现即插即用的效果。

It can be connected to USB interface under system window XP and window 7 and identified as hid joystick equipment directly by system, can realize plug and play.



功能特点 Features

- 采用通用USB接口，适合大多数设备连接使用
  Use common USB interface, apply to most equipments.
- 适合目前主流的windows XP和windows 7系统，兼容性强
  Apply to current main Windows XP and Windows 7 system, good compatibility.
- 实现即插即用功能（首次连接系统会自动识别并安装相应的USB驱动，再次使用将无需安装）
  Realize plug and play (system will indentify and intall according USB host for first time automatically, no need for installation once again).
- 简单便捷，易于使用
  Simple and convenient，easy to use.

输出信号 Output signal

USB	USB接口数字信号输出 USB interface digital signal output

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2025 REV 05

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