



寰立
HUIANLI

寰立开关

最佳 & 专业开关元件

**Professional and
best Switch solution**

**最佳&专业开关元件
解决方案**





寰立开关 最佳&专业开关元件解决方案



Management Idea

经营理念

企业简介

INTRODUCTION

HUANLI 寰立电子系由业内知名开关元件厂专业工程师创立的一家主营电子开关产品的企业。公司内部拥有完整、科学、高质量、高效率的国际生产和质量管理体系。

公司主营金属开关、急停开关、工业手柄、旋转编码开关、拨码开关、微动开关等各类电子开关产品，研发人员和技术都能够不断创新。企业产品均可达国际质量检测标准。我们的产品广泛应用于工业控制，新能源光伏设备，机器人设备，重工产业，医疗产品，安防设备等。

HUANLI Electronics Department by the industry well-known switch components factory professional engineers founded a main electronic switch products enterprise. The company has a complete, scientific, high quality, efficient international production and quality management system. The company's main metal switch, emergency stop switch, industrial handle, rotary code switch, dip switch, micro switch and other kinds of electronic switch products, R & D personnel and technology can continue to innovate. Enter prise products can reach the international quality testing standards. Our products are widely used in industrial control, new energy photovoltaic equipment, robot equipment, heavy industry, medical products, security equipment and so on.

最佳&专业开关元件解决方案

Mission

使命

提供最优质全方位
人机界面产品
以及全心全意的服务。

To be the best uman-machine interface solution supplier in East China, to become the most trusted, most moved, and sustainable cooperation of customers.

Vision

愿景

做华东地区
最优质人机界面方案供应商，
成为客户最信赖，
最感动，并永续合作的企业。

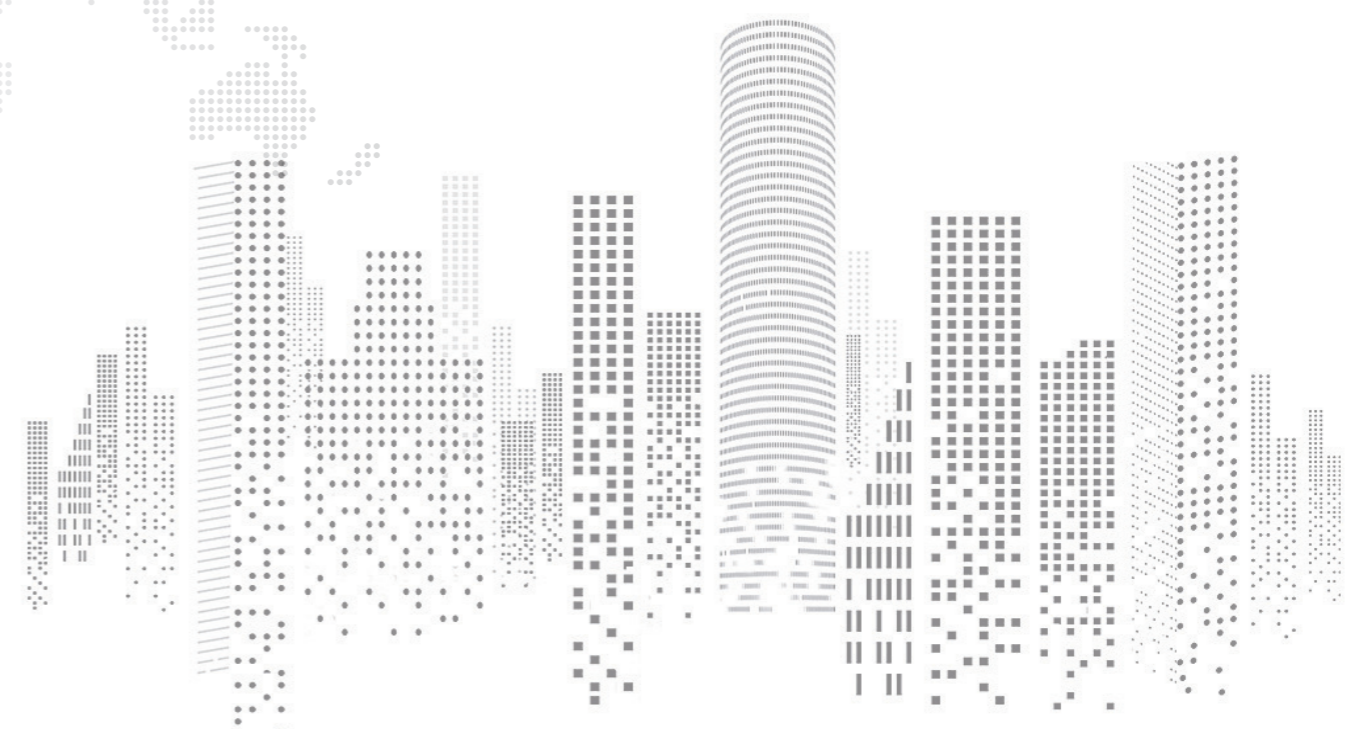
To be the best human-machine interface solution supplier in East China, to become the most trusted, most moved, and sustainable cooperation of customers.

Values

价值观

客户至上，团队协作，
感恩奉献，迈向卓越，
使命必达。

Customer first, team cooperation, gratitude and dedication, towards excellence, mission will reach. Customer first: to adhere to the customer as the center. Meet customer needs, solve customer pain points, create customer value, beyond customer expectations, customer difficulties as our opportunity.



Application Case

应用案例

新能源

世界各地的汽车公司都依靠 寰立的可靠、高性能、高品质的开关来为其创新的应用和设计提供动力。汽车切换的核心价值在于其产品公差、触觉按需、声学适应、环境和工艺密封，以及机械或电气接口集成等特点，而 寰立 在过去 30 多年都成功将以上各点交付给客户。

Automotive companies around the world rely on Huanli's reliable, high-performance, high-quality switches to power their innovative applications and designs. The core values of automotive switching are product tolerances, tactile on-demand, acoustic adaptation, environmental and process seals, and mechanical or electrical interface integration, all of which we have successfully delivered to our customers over the past 30 years.



机器人

机器人产业是继汽车、计算机之后出现的新的大型高技术产业，已成为柔性制造系统、工厂自动化、计算机集成制造系统的自动化工具，寰立特为该产业开发出适合您的开关组合，寰立的开关致力于给用户留下专业、可靠的第一印象，并在之后每次使用时获得一致的体验。

The robot industry is a new large-scale high-tech industry after the automobile and computer. It has become an automatic tool for flexible manufacturing system, factory automation and computer integrated manufacturing system. For this industry, we have developed a switch combination suitable for you. Huanli's switches are dedicated to giving users a professional, reliable first impression and a consistent experience with each subsequent use.



工业控制

工业行业的产品和应用有几个必要的要求：它们必须在高水平上执行，比其他行业的典型产品寿命更长，最重要的是具有弹性。每个工业环境都是苛刻的，产品和组成部分必须做好准备。

Products and applications in industrial industries have several necessary requirements: they must perform at a high level, last longer than typical products in other industries, and most importantly be resilient. Every industrial environment is demanding, and products and components must be prepared.



工程重工

在各行各业中，运输业是少有的多变且复杂的行业。从用于城市建设和维持基础设施的重型设备，乃至用于娱乐的个人越野车，这些都离不开品类繁多的开关和解决方案来确保其正常工作。整个行业的共同点之一是它们始终需要通过开关、按钮和控制杆为车辆提供动力。寰立可靠的高性能优质开关可以帮助汽车工程师迎面任何设计难题。不论您是从事于农业、航空业、建筑业、物料输送、客运业、运动休闲还是卡车行业，寰立 凭借广泛的开关产品组合，包括轻触开关、按键开关、摇头开关、微动开关和翘板开关，以及卓越的定制设计功能，确保您拥有合适的开关。

In all walks of life, transportation industry is a rare changeable and complex industry. From heavy equipment used to build and maintain urban infrastructure to personal off-road vehicles used for recreation, there are a wide variety of switches and solutions to ensure that they work properly. One of the commonalities across the industry is the constant need to power vehicles with switches, buttons and levers. Huanli's reliable high-performance premium switches can help automotive engineers face any design challenge. Whether you are working in agriculture, aviation, construction, material handling, passenger transport, athleisure or trucking, Mediacom ensures you have the right switch with its extensive switch portfolio, including tact switches, push button switches, toggle switches, micro switches and rocker switches, as well as superior custom design features.



安防

人们对于电信设备和服务器具有很高的期望。考虑到当今基础设施的费用——以及此类设备在当今全球经济运行中的重要性——企业需要确保系统和网络每次都按计划运行。此设备的组件也应保持相同的标准。

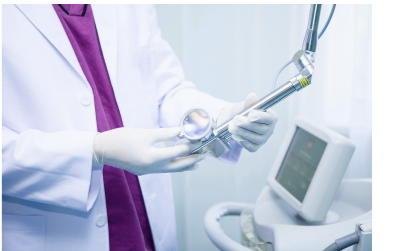
People have high expectations for telecom equipment and servers. Given the expense of today's infrastructure -- and the importance of such equipment in the functioning of today's global economy -- companies need to ensure that systems and networks work as planned every time. The components of this device should also be maintained to the same standard.



医疗

如果您的医疗应用找不到合适的开关，寰立就是您的最佳选择。当您碰到与开关尺寸、位置和配置相关的难题时，寰立的方案可以解决这些复杂挑战。医疗设备开关应给人留下优质、电气性能卓越和专业的第一印象。一直以来，寰立的开关致力于给用户留下这样的第一印象，并在之后每次使用时获得一致的体验。

If you can't find the right switch for your medical application, Huanli is the best choice for you. When you encounter difficult problems related to switch size, location and configuration, Medione's solution can solve these complex challenges. Medical device switches should give a first impression of good quality, excellent electrical performance and professionalism. All along, Huanli's switches aim to give users this first impression and achieve a consistent experience with each subsequent use.



PROFESSIONAL AND BEST SWITCH SOLUTION

最佳&专业开关元件解决方案

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Metal Button Switch

金属带灯开关

对于贵重机台设备或是掌控安全的机具，它们在恶劣环境中抵制、生活就是破坏与被破坏，寰立所研发的金属开关系列，能够与之抗战到最后，对抗冲击、高压、侵蚀，甚至带给它们高质感的外观与绝佳的使用性。

For valuable machines and equipment or machines that control safety, resisting and living in harsh environments means destroying and being destroyed. The metal switch series developed by Huanli can fight against them to the end, resist impact, high pressure, erosion, and even bring them a high-quality appearance and excellent usability.

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PBS16 系列 16mm

详细参数 / Detailed parameters



Rating	2A/36V DC
Contact Resistance	50 mΩ max
Insulation Resistance	1,000 mΩ min.at 500VDC
Dielectric Strength	2,000 V rms @sea level.
Operating Temperature	-20°C ~+70°C



PBS16L 系列 16mm 带锁

详细参数 / Detailed parameters



Rating	2A/36V DC
Electrical life	100,000 make-and-break cycles at full load
Insulation Resistance	1,000 mΩ min.at 500VDC
Dielectric Strength	2,000 V rms @sea level.
Contact Resistance	50 mΩ max. @1A/12VDC(Initial value)



PBF16 系列 16mm

详细参数 / Detailed parameters



Rating	50mA 12VDC.
Operation life	500,000 Cycles.
Insulation Resistance	100 MΩ min.at 500VDC
Dielectric Strength	500V RMS@sea level.
Contact Resistance	100 mΩ max.@ 1A/ 12VDC (initial value)



PBS19 系列 19mm

详细参数 / Detailed parameters



Rating	lth 5A/250VAC resistive load 3A/250VAC
Contact Resistance	50 mΩ max.@ 1A 12VDC (initial value)
Insulation Resistance	1,000 mΩ min.at 500VDC
Dielectric Strength	2,000 V rms @sea level.
Operating Temperature	-20°C to 55°C



PBS22 系列 22mm

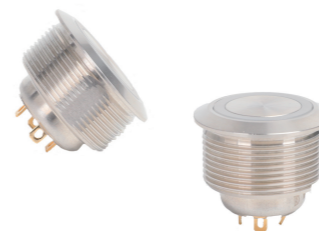
详细参数 / Detailed parameters



Rating	lth 5A/250VAC resistive load 3A/250VAC
Contact Resistance	50 mΩ max.@ 1A 12VDC (initial value)
Insulation Resistance	1,000 mΩ min.at 500VDC
Dielectric Strength	2,000 V rms @sea level.
Operating Temperature	-20°C to 55°C


PS25 系列 25mm 短柄

详细参数 / Detailed parameters



Rating	2A/36VDC
Contact Resistance	200,000 make-and-break cycles at full load
Insulation Resistance	1,000,000 cycles.
Dielectric Strength	2,000 V rms @sea level.
Operating Temperature	50 mΩ max.@ 1A 12VDC (initial value)


PBS25 系列 25mm

详细参数 / Detailed parameters



Rating	lth 5A/250VAC resistive load 3A/250VAC
Contact Resistance	50 mΩ max.@ 1A 12VDC (initial value)
Insulation Resistance	1,000 mΩ min.at 500VDC
Dielectric Strength	2,000 V rms @sea level.
Operating Temperature	-20°C to 55°C


PW19 系列 19mm 大电流

详细参数 / Detailed parameters



Rating	16A,26A 250/125VAC
Contact Resistance	50 mΩ max.@ 1A 12VDC (initial value)
Insulation Resistance	100MΩ min. at 500 VDC
Dielectric Strength	1,500V rms @sea level.
Operating Temperature	-25 °C to 85°C


PS19 系列 19mm 短柄

详细参数 / Detailed parameters



Rating	2A/36VDC
Electrical life	200,000 make-and-break cycles at full load
Mechanical Life	1,000,000 cycles.
Dielectric Strength	2,000 V rms @sea level.
Contact Resistance	50 mΩ max.@ 1A 12VDC (initial value)


PW22 系列 22mm 大电流

详细参数 / Detailed parameters



Rating	16A, 26A 250/125VAC.
Contact Resistance	50mΩ max.@1A 12VDC (initial value)
Insulation Resistance	100mΩ min. at 500VDC
Dielectric Strength	1,500V RMS @ sea level
Operating Temperature	-25°C to 85°C


PS22 系列 22mm 短柄

详细参数 / Detailed parameters



Rating	2A/36VDC
Electrical life	200,000 make-and-break cycles at full load
Mechanical Life	1,000,000 cycles.
Dielectric Strength	2,000 V rms @sea level.
Contact Resistance	50 mΩ max.@ 1A 12VDC (initial value)


PW25 系列 25mm 大电流

详细参数 / Detailed parameters



Rating	16A, 26A 250/125VAC.
Contact Resistance	50mΩ max.@1A 12VDC (initial value)
Insulation Resistance	100mΩ min. at 500VDC
Dielectric Strength	1,500V RMS @ sea level
Operating Temperature	-25°C to 85°C



PBK22 系列 22mm 带灯
详细参数 / Detailed parameters


Rating	lth 5A/250VAC .resistive load 3A/250VAC
Contact Resistance	50 mΩ max. @ 1A 12VDC(initial value)
Insulation Resistance	1,000 mΩ min.at 500VDC
Dielectric Strength	2,000 V rms @sea level
Operating Temperature	-20°C to 55°C


PTC 系列 电容
详细参数 / Detailed parameters


Rating	5-24V/1A DC.
Operation Life	50 MILLION CYCLE MIN.
Contact Resistance	1Ω MAX.
Operation Temperature	-20°C to 65°C


PTZ 系列 压电
详细参数 / Detailed parameters


Rating	5-24V/1A DC.
Operation Life	50 MILLION CYCLE MIN.
Contact Resistance	1Ω MAX.
Operation Temperature	-20°C to 65°C



Emergency Stop Push Button Switch

急停开关

寰立现在为需要可靠的、故障安全控制响应的应用提供一系列紧急停止（E-stop）开关。

Huanli now provides a range of E-stop switches for applications requiring reliable, failsafe control responses.

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HL-LA16 系列 B型短款

详细参数 / Detailed parameters



Operating Ambient Temperature	-25°C~+55°C (freeze-free)
Ambient Humidity	45~85% RH
Contact Resistance	≤30 mΩ
Insulation Resistance	≥100MΩ
Withstand Voltage	2,000VAC/60s



HL-LA16 系列 C型短款

详细参数 / Detailed parameters



Operating Ambient Temperature	-25°C~+55°C (freeze-free)
Ambient Humidity	45~85% RH
Contact Resistance	≤30 mΩ
Insulation Resistance	≥100MΩ
Withstand Voltage	2,000VAC/60s



HL-LA16系列 大头急停钮

详细参数 / Detailed parameters



Operating Ambient Temperature	-25°C~+55°C (freeze-free)
Ambient Humidity	45~85% RH
Contact Resistance	≤30 mΩ
Insulation Resistance	≥100MΩ
Withstand Voltage	2,000VAC/60s



HL-LA16系列 小头急停钮

详细参数 / Detailed parameters

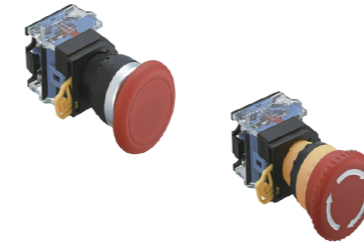


Operating Ambient Temperature	-25°C~+55°C (freeze-free)
Ambient Humidity	45~85% RH
Contact Resistance	≤30 mΩ
Insulation Resistance	≥100MΩ
Withstand Voltage	2,000VAC/60s



PSY22-LA38A系列 推锁旋放式

详细参数 / Detailed parameters

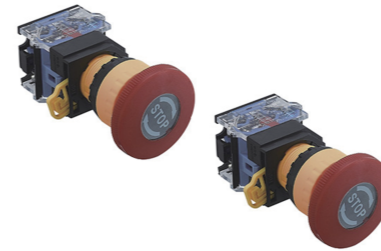


Operating Ambient Temperature	-25°C~+55°C (freeze-free)
Ambient Humidity	45~85% RH
Contact Resistance	≤50 mΩ
Insulation Resistance	≥100MΩ
Working Pressure Resistance	1890VAC/50Hz/60s



HL-LA38A系列 带STOP标志急停钮

详细参数 / Detailed parameters



Operating Ambient Temperature	-25°C~+55°C (freeze-free)
Ambient Humidity	45~85% RH
Contact Resistance	≤50 mΩ
Insulation Resistance	≥100MΩ
Working Pressure Resistance	1890VAC/50Hz/60s



HL-LA38A 金属头急停钮

详细参数 / Detailed parameters

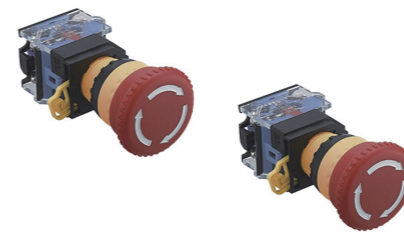


Operating Ambient Temperature	-25°C~+55°C (freeze-free)
Ambient Humidity	45~85% RH
Contact Resistance	≤50 mΩ
Insulation Resistance	≥100MΩ
Working Pressure Resistance	1890VAC/50Hz/60s



HL-LA38A系列 急停钮

详细参数 / Detailed parameters



Operating Ambient Temperature	-25°C~+55°C (freeze-free)
Ambient Humidity	45~85% RH
Contact Resistance	≤50 mΩ
Insulation Resistance	≥100MΩ
Working Pressure Resistance	1890VAC/50Hz/60s



MPB-A 系列 16mm

详细参数 / Detailed parameters



Operating Temperature	-25°C~+55°C
Operating Humidity	45~85% RH (Non condensing)
Contact Material	Silver/Silver cadmium oxide Silver plated gold,plating thickness 3μm
Contact Resistance	≤50 mΩ
Insulation Resistance	≥100MΩ



MPB-B 系列 16mm

详细参数 / Detailed parameters



Rating	-25°C~+55°C
Contact Resistance	45~85% RH (Non condensing)
Insulation Resistance	Silver/Silver cadmium oxide Silver plated gold,plating thickness 3μm
Dielectric Strength	≤50 mΩ
Operating Temperature	≥100MΩ



PSY-LA16 系列 16mm B型短款

详细参数 / Detailed parameters



Operating Ambient Temperature	-25°C~+55°C (freeze-free)
Ambient Humidity	45~85% RH
Contact Resistance	≤30 mΩ
Insulation Resistance	≥100MΩ
Withstand Voltage	2,000VAC/60s



HL-F16系列 16mm

详细参数 / Detailed parameters



Operating ambient temperature	Op-25°C~+55°C (freeze-free)
Ambient humidity	45~85%RH
Contact resistance	≤30mΩ
Insulation resistance	≥100MΩ
Withstand Voltage	2,000VAC/60s



Joystick Controller

操纵杆 (工业/迷你)

工业电控手柄在 DC 电路中作为电流调节时，电流会通过工业电控手柄的滑臂，由于阳极氧化的作用，电阻值会异常增大，在这种情况下，建议将连接电阻器的端子连接到负极，将滑动臂连接到正极。如果 DC 电流直接通过工业电子控制手柄，工业电子控制手柄的阳极会被氧化损坏，增加工业电子控制手柄的阻抗。因此，建议将电流的阴极接在与碳膜片接触的端子上，阳极接在与电刷接触的端子上（工业电控手柄触点），当工控手柄用作可变电阻时，建议用作分压器，电控手柄的负载电阻 R1 不应小于标称电阻 RT 的 10 倍，它用于调节调压器的输出电压，因此工业电控手柄应设计成顺时针调节时增加输出电压，逆时针调节时及时降低输出电压，在可调恒流充电器中，应使用工业电子控制手柄来调节充电电流倍数，工业电控手柄设计时要填顺时针方向，调节手柄时电流会增大。

When the industrial electronic control handle is used as current regulation in DC circuit, the current will pass through the sliding arm of the industrial electronic control handle. Due to the action of anodic oxidation, the resistance value will increase abnormally. In this case, it is recommended to connect the terminals connecting the resistor to the negative and the sliding arm to the positive. If DC current passes directly through the industrial electronic control handle, the anode of the industrial electronic control handle will be oxidized and damaged, increasing the impedance of the industrial electronic control handle. Therefore, it is recommended to connect the cathode of current to the terminal contacting the carbon diaphragm and the anode to the terminal contacting the brush (contact of industrial electronic control handle). When the industrial control handle is used as a variable resistance, it is recommended to be used as a voltage divider. The load resistance R1 of the electric control handle should not be less than 10 times the nominal resistance RT. It is used to regulate the output voltage of the voltage regulator. Therefore, the industrial electronic control handle should be designed to increase the output voltage when it is adjusted clockwise. In the adjustable constant current charger, the industrial electronic control handle should be used to adjust the charging current multiple. When designing the industrial electronic control handle, the clockwise direction should be filled. When adjusting the handle, the current will increase.



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LD25 系列 2轴

详细参数 / Detailed parameters



Operation Strength	3.1N±0.5N (0.70lbf±0.11lbf)
Vertical Load	200N (45lbf)
Horizontal Load	150N (33.7lbf)*
Angle Of Mechanical Motion	±25° (50° total)
Life Span	>1,000,000 cycles



LD35C 系列 3轴

详细参数 / Detailed parameters



Switching Mode	50mA 12VDC.
Contact Current	B Handle : 1A/24V D Handle : 0.5A/24V
Protection Class	B handle: IP67 D Handle: IP54
Operating Life	>1,000,000 cycles
Minimum Operating Voltage	3.1V (5V power supply) 8V (12-24V power supply)



LD30A 系列 3轴

详细参数 / Detailed parameters



Switching Mode	Normally open
Contact Current	50mA/5V
Protection Rating	IP66
Operating Life	>500,000 cycles
Minimum Operating Voltage	3.05V (5V power supply), 8V (12-24V power supply)



LD60A 系列 多轴

详细参数 / Detailed parameters



Switching mode	Normally open
Starting Angle	>6°
Contact Current	1A/24V
Minimum Operating Voltage	4.2V (5V power supply), 10V
Maximum Input Voltage	36V (12-28V power supply), 5.5V



LD35A 系列 3轴

详细参数 / Detailed parameters



Switching Mode	50mA 12VDC.
Contact Current	B Handle : 1A/24V D Handle : 0.5A/24V
Protection Class	B handle: IP67 D Handle: IP54
Operating Life	>1,000,000 cycles
Minimum Operating Voltage	3.1V (5V power supply) 8V (12-24V power supply)



LD100 系列 单轴

详细参数 / Detailed parameters



Number Of Axes	1 axis, Hall sensor
Positioning Mode	spring automatic return, friction resistance positioning, a variety of gears
Operating Angle	±30°(60°)
Power Supply	DC3.3V or DC5V
Power Consumption	Single sensor 12mA, dual sensor 23mA



LD35B 系列 3轴

详细参数 / Detailed parameters



Switching Mode	50mA 12VDC.
Contact Current	B Handle : 1A/24V D Handle : 0.5A/24V
Protection Class	B handle: IP67 D Handle: IP54
Operating Life	>1,000,000 cycles
Minimum Operating Voltage	3.1V (5V power supply) 8V (12-24V power supply)



LD105 系列 单轴

详细参数 / Detailed parameters

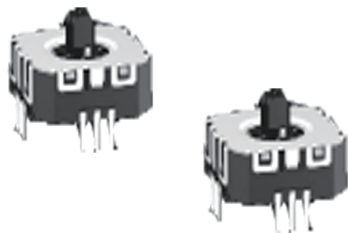


Number Of Axes	1 axis, Hall sensor
Positioning Mode	The spring automatically returns to center position
Operating Angle	±36°(72°)
Power Supply	DC3.3V or DC5V
Return Accuracy	< 0.3%



FGJ08K 17.5mm双向标准操纵杆

详细参数 / Detailed parameters



Total Resistance	5KΩ~100KΩ
Total Resistance Tolerance	± 20%
Resistance Taper	B taper
Rated Power	TaperB: 0.0125W
Withstand Voltage	1 minute at AC 250V


FGJP10K系列 双电阻片

详细参数 / Detailed parameters



Total Resistance	5KΩ~100KΩ
Total Resistance Tolerance	± 20%
Resistance Taper	B taper
Rated Power	TaperB: 0.0125W
Withstand Voltage	1 minute at AC 250V


FGJN08K系列 塑胶制 标准操纵杆

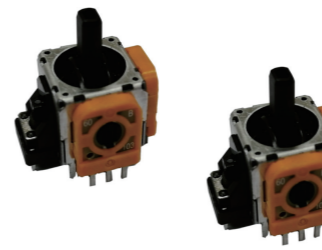
详细参数 / Detailed parameters



Total Resistance	10KΩ
Total Resistance Tolerance	± 20%
Resistance Taper	B taper
Rated Power	TaperB: 0.0125W
Withstand Voltage	1 minute at AC 250V


FGJR10K 竖直标准操纵杆 13mm

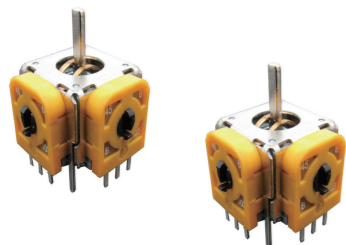
详细参数 / Detailed parameters



Total Resistance	10KΩ
Total Resistance Tolerance	± 20%
Resistance Taper	B taper
Rated Power	TaperB: 0.0125W
Withstand Voltage	More than 100MΩ at DC 250V for 1 minute


FGJN10K系列 16mm金属材质操纵杆

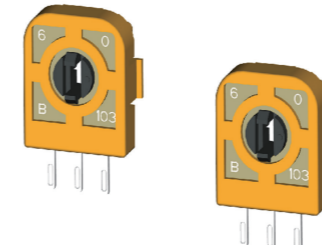
详细参数 / Detailed parameters



Total Resistance	5KΩ~100KΩ
Total Resistance Tolerance	± 20%
Resistance Taper	B taper
Rated Power	TaperB: 0.0125W
Withstand Voltage	1 minute at AC 250V


FGM10k系列 长寿命小型操纵杆

详细参数 / Detailed parameters



Total Resistance	5KΩ~100KΩ
Total Resistance Tolerance	± 20%
Resistance Taper	B
Rated Power	0.0125W
Withstand Voltage	1 minute at AC 250V


FGJP06K系列 21mm 标准操纵杆

详细参数 / Detailed parameters



Total Resistance	5KΩ~100KΩ
Total Resistance Tolerance	± 20%
Resistance Taper	B taper
Rated Power	TaperB: 0.0125W
Withstand Voltage	1 minute at AC 250V

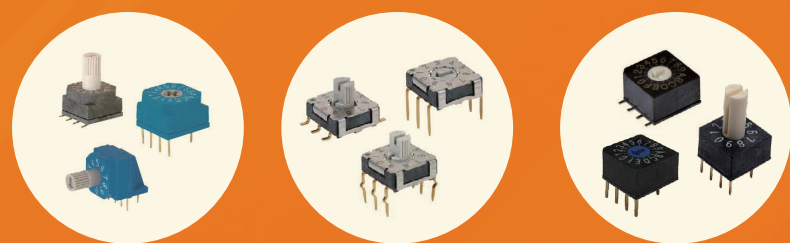

FJR06K系列 11mm金属轴心操纵杆

详细参数 / Detailed parameters



Total Resistance	10KΩ
Total Resistance Tolerance	± 20%
Resistance Taper	B taper
Rated Power	Taper B: 0.0125W
Withstand Voltage	1 minute at AC 250V





Rotary Code Switches

旋转编码开关

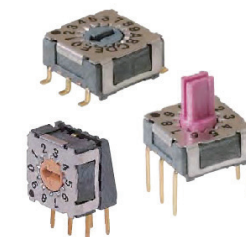
按结构可将其分为机械式旋转编码开关和光电式旋转编码开关。所谓机械式旋转编码开关，是指通过信号配合零件的规律转动或（移动）形成触点接触而产生规律脉冲的编码产品，其寿命具有较大的局限性；光电式旋转编码开关，是指通过光源耦合，形成的无触点接触而产生规律脉冲的编码产品，其寿命极长。

It can be divided into mechanical rotary coding switch and photoelectric rotary coding switch according to its structure. The so-called mechanical rotary coding switch refers to the coding product which generates regular pulses through the regular rotation or (movement) of signal with parts to form contact contact contact, and its life has great limitations. Photoelectric rotary coding switch is a coding product which generates regular pulse through contactless contact formed by light source coupling and has a very long life.



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RS01-RS03 系列 7.4mm*7.4mm



详细参数 / Detailed parameters

Rating	100mA, DC 42V (Switching) 400mA, DC 42V (None-Switching)
Contact Resistance	80mΩ Max
Insulation Resistance	100MΩ Min at DC 250V
Operating Force	120±30gf Max
Life Cycle	25,000 steps



RS04-RS06 系列 10mm*10mm

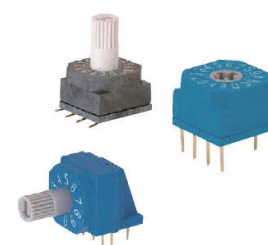


详细参数 / Detailed parameters

Rating	150mA, DC 42V (Switching) 200mA, DC 42V (None-Switching)
Contact Resistance	80mΩ Max.
Insulation Resistance	100MΩ Min at DC 250V
Operating Force	700gf Max.
Life Cycle	10,000 steps



RS07-RS07E 系列 10mm*10mm

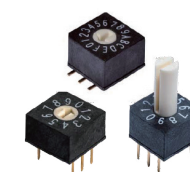


详细参数 / Detailed parameters

Rating	150mA, DC 42V (Switching) 200mA, DC 42V (None-Switching)
Contact Resistance	80mΩ Max.
Insulation Resistance	100MΩ Min at DC 250V
Operating Force	700gf Max.
Life Cycle	10,000 steps



RS08-RS08A 系列 10mm*10mm



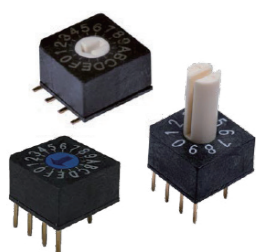
详细参数 / Detailed parameters

Rating	25mA, 12V DC (Switching) 25mA, 24V DC (None-Switching)
Contact Resistance	100mΩ Max
Insulation Resistance	100MΩ Min at DC 250V
Operating Force	700gf Max
Life Cycle	10,000 steps



RS09-RS09A 系列 10mm*10mm

详细参数 / Detailed parameters

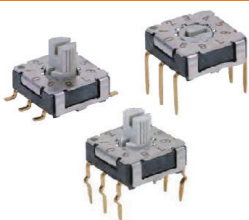


Rating	25mA, 12V DC (Switching) 25mA, 24V DC (None-Switching)
Contact Resistance	100mΩ Max
Insulation Resistance	100MΩ Min at DC 250V
Operating Force	700gf Max
Life Cycle	10,000 steps



RS10 系列 7.2mm*7.2mm

详细参数 / Detailed parameters



Rating	100mA, DC 5V (Switching) 100mA, DC 50V (None-Switching)
Contact Resistance	100mΩ Max
Insulation Resistance	100MΩ Min at DC 100V
Operating Force	200gf Max
Life Cycle	10,000 steps



Dip Switches

拨码开关

拨码开关是用来操作控制的地址开关，也被称为 DIP 开关、数位开关、拨动开关、拨拉开关、指拨开关、超频开关和地址开关。拨码开关随着电路板的发展及改良，开关的体积变得越来越小，应用于不同类型的小型机械。

寰立的 SMT 1.2mm 间距拨码开关、超薄型和标准型拨码开关、旋转和编码拨码开关、编码旋转拨码开关、SIP 和跳线开关，都具备多种凸柄及短柄款式。寰立 DIP 拨码开关具有表面贴装、通孔、直角和垂直安装各种选项。

Dial-code switches are address switches used for operational control, also known as DIP switches, digital switches, toggle switches, toggle switches, toggle switches, overfrequency switches and address switches. With the development and improvement of circuit board, the volume of the dial switch becomes smaller and smaller, and it is applied to different types of small machinery.

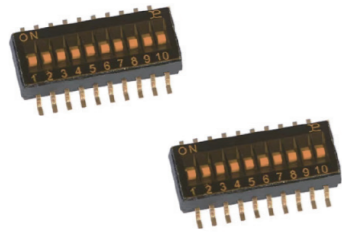
The stand-up SMT 1.2mm spacing dial switch, ultra-thin and standard dial switch, rotary and code dial switch, code rotary dial switch, SIP and jumper switch are available in various shank and short shank styles. The Universal DIP Dial Switch has various options for surface mounting, through hole, right angle and vertical mounting.



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DS01 系列 SMD贴片

详细参数 / Detailed parameters

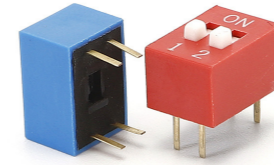


Rating	25mA at 24VDC(Switching) 100mA at 50VDC(Non-Switching)
Contact Resistance	50mΩ Max.(Initial) 100mΩ Max.(After life)
Insulation Resistance	100MΩ Min. 60sec at 500VDC
Dielectric Strength	300V DC for 60 seconds
Switch Capacitance	5pF Max. at 1M Hz



DS01B-DS02B 系列 平拨式

详细参数 / Detailed parameters



Rating	100mA at 50VDC (Non-Switching) 25mA at 24VDC(Switching)
Insulation Resistance	100MΩ at 250VDC
Contact Resistance	30mΩ Max.(Initial) 100mΩ Max.(After life)
Dielectric Strength	500VAC/1min
Operating Force	500gf Max



DS02 系列 2.54mm脚距

详细参数 / Detailed parameters

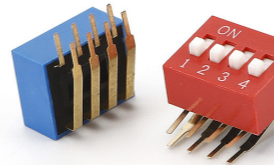


Rating	25mA at 24VDC(Switching) 100mA at 50VDC(Non-Switching)
Contact Resistance	50mΩ Max.(Initial) 100mΩ Max.(After life)
Insulation Resistance	100MΩ Min. 60sec at 500VDC
Dielectric Strength	500V DC for 60 seconds
Switch Capacitance	5pF Max. at 1M Hz



DS03B-DS04B 系列 弯脚型

详细参数 / Detailed parameters



Rating	100mA at 50VDC (Non-Switching) 25mA at 24VDC(Switching)
Insulation Resistance	100MΩ at 250VDC
Contact Resistance	30mΩ Max.(Initial) 100mΩ Max.(After life)
Dielectric Strength	500VAC/1min
Operating Force	500gf Max



DS03 系列 侧拨琴键

详细参数 / Detailed parameters

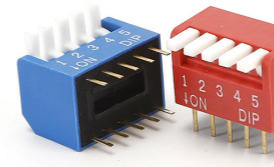


Rating	25mA at 24VDC(Switching) 100mA at 50VDC(Non-Switching)
Contact Resistance	50mΩ Max.(Initial) 100mΩ Max.(After life)
Insulation Resistance	100MΩ Min. 60sec at 500VDC
Dielectric Strength	500V DC for 60 seconds
Switch Capacitance	5pF Max. at 1M Hz



DS05B-DS06B 系列 琴键式

详细参数 / Detailed parameters

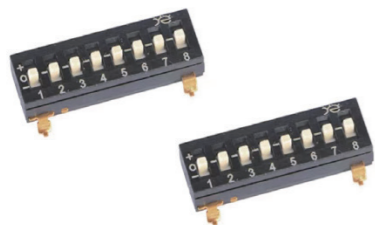


Rating	100mA at 50VDC (Non-Switching) 25mA at 24VDC(Switching)
Insulation Resistance	100MΩ at 250VDC
Contact Resistance	30mΩ Max.(Initial) 100mΩ Max.(After life)
Dielectric Strength	500VAC/1min
Operating Force	500gf Max.



DS04 系列 贴片式

详细参数 / Detailed parameters



Rating	25mA at 24VDC(Switching) 100mA at 50VDC(Non-Switching)
Contact Resistance	50mΩ Max.(Initial) 100mΩ Max.(After life)
Insulation Resistance	100MΩ Min. 60sec at 500VDC
Dielectric Strength	500V DC for 60 seconds
Switch Capacitance	5pF Max. at 1M Hz





Micro Switches

微动开关

小型微动开关的外机械力通过传动元件于动作簧片上施加力量，当动作簧片位移到临界点时，末端的动触点与定触点会快速接通或断开。当小型微动开关的传动元件上的作用力完结后，动作簧片会产生反向动力。当传动元件的反向行程达到簧片的临界点后，反向动作便会完成，提供极大的便利。

The external mechanical force of the small microswitch exerts force on the action reed through the driving element. When the action reed moves to the critical point, the dynamic contact and the fixed contact at the end will be switched on and off quickly. When the force on the drive element of the small microswitch is over, the action spring produces reverse power. When the reverse travel of the drive element reaches the critical point of the reed, the reverse action is completed, providing great convenience.



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GRS-2 系列 微型

详细参数 / Detailed parameters



Rating(Light Force Type)	0.1A 125/250VAC 25T125 5E4 5A 125/250VAC 25T125 5E4
Rating(Ordinary Type)	0.1A 125/250VAC 25T125 5E4 5(2)A 125/250VAC 25T125 5E4 16(4)A 125/250VAC 16A 125
Operating Frequency (Electrical)	10~30 cycles/minute
Operating Frequency (Mechanical)	30~60 cycles/minute
Contact Resistance (Initial Value)	Initial contact resistance 100mΩ Max



GRS-3 系列 防水防尘

详细参数 / Detailed parameters

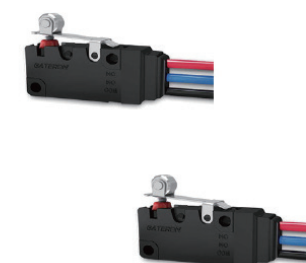


Rating	0.1A 125/250VAC 3A/12VDC 0.1A/48VDC μ40T85 1E5
Operating Frequency (Electrical)	10~30 cycles/minute
Operating Frequency (Mechanical)	120 cycles/minute
Contact Resistance (Initial Value)	100mΩ Max (without wire type)
Insulation Resistance	100MΩ Min



GRS-5 系列 紧凑型

详细参数 / Detailed parameters



Rating	0.1A 30VDC 0.1A 125/250VAC 40T85 5E4 5A 125/250VAC 30VDC 5(2)A 125/250VAC 40T85 5E4 10A 125/250VAC 10(2)A 125/250VAC 5A 30VDC 40T85 1E4
Operating Frequency (Electrical)	10~30 cycles/minute
Operating Frequency (Mechanical)	30~60 cycles/minute
Contact Resistance (Initial Value)	Initial contact resistance 100mΩ Max
Insulation Resistance	≥100MΩ (500VDC)



GRS-6 系列 微型

详细参数 / Detailed parameters



Rating	0.1A 125/250VAC 48VDC 5A 125/250VAC
Operating Frequency (Electrical)	10~30 cycles/minute
Operating Frequency (Mechanical)	120 cycles/minute
Contact Resistance (Initial Value)	100mΩ Max (without wire type)
Insulation Resistance	100MΩ Min





Toggle Switches

摇头开关

寰立作为摇头开关厂家，一直研发不同类型的摇头开关，如加强 7000 系列微型锁定式摇头开关，同时提升平稳操作与可靠性，令两者配合完美，保证长期可靠运行。在不同杆位之间，防滑手柄和锁定杆移动时操作更安全，为医疗、仪器和远程通信应用的发展出一分力。

It can be divided into mechanical rotary coding switch and photoelectric rotary coding switch according to its structure. The so-called mechanical rotary coding switch refers to the coding product which generates regular pulses through the regular rotation or (movement) of signal with parts to form contact contact contact, and its life has great limitations. Photoelectric rotary coding switch is a coding product which generates regular pulse through contactless contact formed by light source coupling and has a very long life.



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TGS01 系列 拨柄

详细参数 / Detailed parameters



Contact Rating	Dependent upon contact material
Mechanical Life	40,000 make-and-break cycles
Contact Resistance	10mΩmax. (initial value) @ 2-4VDC 100mA for both silver and gold plated contacts.
Insulation Resistance	1,000 MΩ min./1000VDC
Dielectric Strength	1,000 Vrms min.@sea level. (initial value)



TGS02 系列 防水

详细参数 / Detailed parameters



Contact Rating	5Amps with resistant load @ 120 VAC or 28 VDC 2Amps with resistant load @ 250 VAC
Mechanical Life	30,000 make-and-break cycles
Contact Resistance	10 mΩ max
Insulation Resistance	1,000 mΩ min
Dielectric Strength	1,000 Vrms min. @sea level



TGS03 系列 高寿命

详细参数 / Detailed parameters



Contact Rating	AC 125V 6A, AC 250V 3A, DC 30V 3A
Mechanical Life	M100,000 make-and-break cycles. DC 10V & 0.1mA
Contact Resistance	10 mΩ max
Insulation Resistance	500V 500 mΩ min
Dielectric Strength	1,000 Vrms min. @sea level



TGS04 系列 小型

详细参数 / Detailed parameters



Contact Rating	Dependent upon contact material
Mechanical Life	30,000 make-and-break cycles
Contact Resistance	20 mΩ max. initial @2-4VDC, 100mA for both silver and gold plated contacts
Insulation Resistance	1,000 mΩ min
Dielectric Strength	1,000 Vrms min. @sea level



TGS05 系列 小型防水

详细参数 / Detailed parameters



Contact Rating	Dependent upon contact material
Mechanical Life	40,000 make-and-break cycles
Contact Resistance	20 mΩ max. initial @2- 4VDC, 100mA for both silver and gold plated contacts
Insulation Resistance	1,000 mΩ min
Dielectric Strength	1,000 Vrms min. @sea level



TGS06 系列 密封迷你

详细参数 / Detailed parameters



Contact Rating	Dependent upon contact material
Mechanical Life	30,000 make-and-break cycles
Contact Resistance	20 mΩ max. initial @2- 4VDC, 100mA for both silver and gold plated contacts
Insulation Resistance	1,000 mΩ min
Dielectric Strength	1,000 Vrms min. @sea level



TGS07 系列 防水

详细参数 / Detailed parameters



Contact Rating	Max 0.4 VA max @48 VAC or DC
Mechanical Life	minimum 40,000 operations
Contact Resistance	50 mΩ max
Insulation Resistance	1,000 mΩ min
Dielectric Strength	500 Vrms min. @sea level.

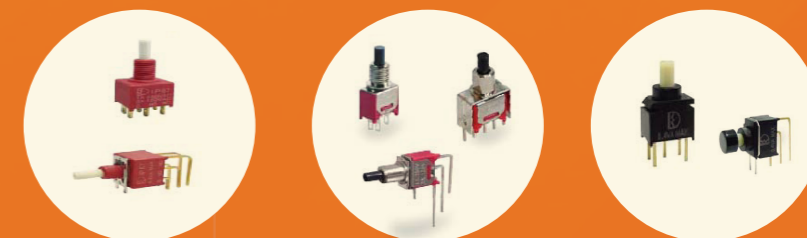


TGS08 系列 密封式迷你

详细参数 / Detailed parameters



Contact Rating	0.4 VA max. @20 V AC or DC max
Mechanical Life	40,000 make-and-break cycles
Contact Resistance	5Below 100 mΩ typ.initial @ 2-4VDC 100mA
Insulation Resistance	500 mΩ min
Dielectric Strength	500 Vrms min. @sea level



Push Button Switches

按键开关

按键开关主要是指轻触式按键开关。它是一种电子开关，属于电子元器件类，以满足操作力的条件向开关操作方向施压，开关功能就可以闭合接通；当撤销压力时，开关就会断开，而内部结构是靠金属弹片受力变化来实现通断。

Key switch mainly refers to touch key switch. It is an electronic switch, belonging to the category of electronic components, which applies pressure to the direction of switch operation in order to satisfy the operating force, and the switch function can be closed and turned on. When the pressure is removed, the switch opens and the internal structure is switched on by the force variation of the metal projectile.



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PBS01 系列 小型

详细参数 / Detailed parameters



Contact Rating	Dependent upon contact material
Mechanical Life	50,000 make-and-break cycles
Contact Resistance	20 mΩ max. initial @2- 4VDC, 100mA for both silver and gold plated contacts.
Insulation Resistancen.	1,000 mΩ min
Dielectric Strength	1,000 Vrms min. @sea level.


PBS03L 系列 微型带锁

详细参数 / Detailed parameters



Rating	1A 250VAC ,3A 120VAC or 28VDC
Mechanical Life	6000 cycles
Contact Resistance	R=20 mΩ max. Q=50 mΩ max
Insulation Resistancen	1,000 mΩ min.,1000VDC
Dielectric Strength	11,000 VAC for 1 Minute


PBS01L 系列 小型带锁

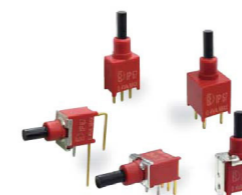
详细参数 / Detailed parameters



Contact Rating	Dependent upon contact material
Mechanical Life	50,000 make-and-break cycles
Contact Resistance	20 mΩ max. initial @2- 4VDC, 100mA for both silver and gold plated contacts.
Insulation Resistancen.	1,000 mΩ min
Dielectric Strength	1,000 Vrms min. @sea level.


PBS04 系列 密封型防水

详细参数 / Detailed parameters



Contact Rating	Dependent upon contact material
Mechanical Life	50,000 make-and-break cycles
Contact Resistance	20 mΩ max. initial @2- 4VDC, 100mA for both silver and gold plated contacts.
Insulation Resistancen.	1,000 mΩ min
Dielectric Strength	1,000 Vrms min. @sea level.


PBS02 系列 密封卡扣式

详细参数 / Detailed parameters



Contact Rating	Dependent upon contact material
Mechanical Life	50,000 make-and-break cycles
Contact Resistance	20 mΩ max. initial @2- 4VDC, 100mA for both silver and gold plated contacts.
Insulation Resistancen.	1,000 mΩ min
Dielectric Strength	1,000 Vrms min. @sea level.


PBS05 系列 密封小型

详细参数 / Detailed parameters



Contact Rating	Dependent upon contact material
Mechanical Life	50,000 make-and-break cycles
Contact Resistance	20 mΩ max. initial @2- 4VDC, 100mA for both silver and gold plated contacts.
Insulation Resistancen.	1,000 mΩ min
Dielectric Strength	1,000 Vrms min. @sea level.


PBS03 系列 微型

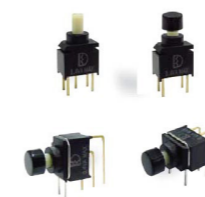
详细参数 / Detailed parameters



Contact Rating	Dependent upon contact material
Mechanical Life	50,000 make-and-break cycles
Contact Resistance	20 mΩ max. initial @2- 4VDC, 100mA for both silver and gold plated contacts.
Insulation Resistancen.	1,000 mΩ min
Dielectric Strength	1,000 Vrms min. @sea level.


PBS06 系列 密封超微型

详细参数 / Detailed parameters

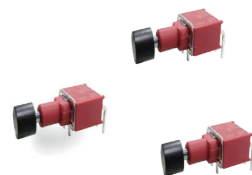


Rating	0.4 VA max. @20 V AC or DC max
Mechanical Life	40,000 make-and-break cycles
Contact Resistance	Below 100 mΩtyp. Initial @ 2-4VDC, 100mA
Insulation Resistancen	500 mΩ min
Dielectric Strength	500 Vrms min. @ sea level



PBS10 系列 高阶

详细参数 / Detailed parameters



Mechanical Life	50,000 make-and-break cycles
Contact Resistance	50,000 make-and-break cycles
Insulation Resistance	20 mΩ max. initial @2- 4VDC, 100mA for both silver and gold plated contacts.
Dielectric Strength	1,000 mΩ min
Operating Temperature	500 Vrms min. @sea level.



PBS12 系列 工业

详细参数 / Detailed parameters



Function	Momentary action
Mechanical Life	100,000 make-and-break cycles.
Electrical Life	50,000 cycles.
Contact Resistance	200 mΩmax. (initial value) @ 2-4VDC 100mA
Contact Rating	1,000 Vrms min. @sea level.



PBS11 系列 小型

详细参数 / Detailed parameters

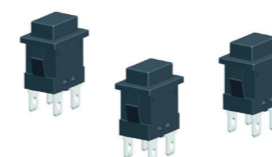


Rating	DC9V,1A
Mechanical Life	5S7/D7:20,000 cycles SL/DL:10,000 cycles 37/3L:30,000 cycles
Contact Resistance	50 mΩ max. /30 mΩmax. (PBS11-37/3L)
Insulation Resistancen.	DC 500V 100 mΩ min.
Dielectric Strength	1000 V rms @sea level. 500 V RMS @ sea level. (PBS11-37/3L)



PS102 系列 小型

详细参数 / Detailed parameters



Rating	16A 250VAC
Contact Resistance	≤20mΩ
Insulation Resistance	≥100MΩ
Dielectric Intensity	≥1800VAC/3S
Electrical Life	≥10,000 cycles



PBS08 系列 带灯

详细参数 / Detailed parameters

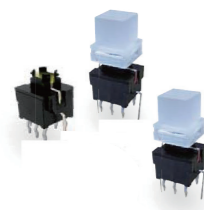


Circuit	SPST
Pole-position	Momentary Type, SPST with LED
Contact Rating	0V DC, 0.1A
Contact Resistance	50mΩ max. 1.5V DC; 100mA, by Method of Voltage DROP
Insulation Resistance	100MΩ min. 500V DC



PBS09 系列 带灯

详细参数 / Detailed parameters



Circuit	DPDT
Rating	0.1A.DC 30V MAX/100 m A ,DC 1.5V MIN
Contact Resistance	50mΩ max.
Insulation Resistance	100MΩ min.
Electrical life	50,000 cycles





Led push Button Switches

带灯按键开关

带灯按键开关是一种电子开关，属于电子元器件类，以满足操作力的条件向开关操作方向施压，开关功能就可以闭合接通。当撤销压力时，开关就会断开，而内部结构是靠金属弹片受力变化来实现通断。最常见的按键开关，寰立有多种系列可以选择，可以依照尺寸大小、外观样式、功能、带灯等，也有高克重使用的脚踏开关、紧急开关；更具备防水型或 SMT 制程适合的系列。

The key switch with lamp is an electronic switch, belonging to the category of electronic components, which applies pressure to the direction of switch operation in order to satisfy the operating force, and the switch function can be closed and switched on. When the pressure is removed, the switch opens and the internal structure is switched on by the force variation of the metal projectile. The most common key switches are available in a wide range of sizes, appearance styles, functions, lights, etc., as well as pedal switches and emergency switches for heavy use in high grams. More suitable range for waterproof type or SMT process.



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PBSF01 系列 小型带灯



详细参数 / Detailed parameters

Max. current/voltage rating with resistive load	4400mA 32VAC-200mA 50VDC-125mA 125VAC
Initial contact resistance	50mΩmax.
Insulation resistance	1GΩmin.at 500VDC.
Dielectric strength	1,500 VAC rms.
Electrical life at full load	500,000 cycles.



PBS07 系列 小型带灯



详细参数 / Detailed parameters

Rating	400mA 32VAC-100mA 50VDC-125mA 125VAC
Contact Resistance	80mΩ Max.
Insulation Resistance	100MΩ Min at DC 250V
Operating Force	700gf Max.
Life Cycle	10,000 steps



PBS07-12系列 大电流防水



详细参数 / Detailed parameters

Resistive	28VDC 5A 4A(DB) 25,000 cycles
Resistive	115VAC,60Hz 3A 1A(DB) 25,000 cycles
Inductive	28VDC 2A 2A(DB) 25,000 cycles
Contact Resistance	50mΩ Max
Insulation Resistance	Insulation Resistance 1GΩ @ 500DVc



PBS13-06系列 白色透明按钮



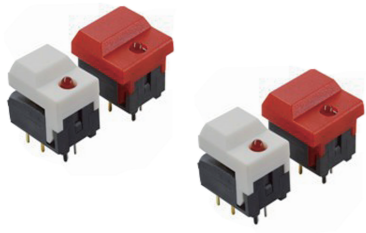
详细参数 / Detailed parameters

Circuit	SPST
Current rating	100mA
Voltage rating	12VDC
Dielectric withstanding voltage	250VAC for 1 minute
Contact Resistance	200mΩ Max. (initial)



PBS13-86系列 双灯红盖按钮

详细参数 / Detailed parameters



Circuit	SPDT
Current rating	12mA
Voltage rating	24VDC
Contact Resistance	50mΩ Max. (initial)
Insulation Resistance	100MΩ Min


PBS14系列 带卡扣黑色按钮

详细参数 / Detailed parameters



Circuit	SPST
Current rating	10mA min./100mA max.
Voltage rating	2V DC min./30V DC max.
Dielectric withstanding voltage	500VAC for 1 minute
Contact Resistance	50mΩ Max. (initial)


KS02系列 方形多色带灯

详细参数 / Detailed parameters



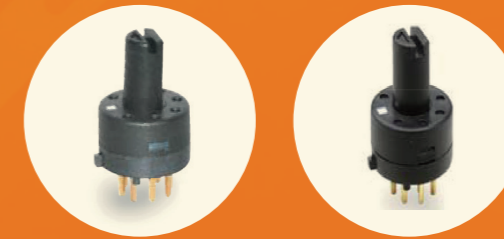
Rating	100mA max,42V AC/DC
Mechanical life	1,000,000 cycles
Contact resistance	100mΩ max. (initial value)
Insulation resistance	1000MΩmin./500VDC
Dielectric strength	1,000 VAC(initial value)


DTS02系列 双色切换型

详细参数 / Detailed parameters



Circuit	SPST
Contact Rating	1~50mA @5V~24VDC(resistive load)
Contact resistance	100mΩ max. (initial value)
Insulation resistance	100MΩmin./250VDC
Dielectric strength	500V RMS@ sea level. (initial value)



Rotary Switches

旋转开关

带灯按键开关是一种电子开关，属于电子元器件类，以满足操作力的条件向开关操作方向施压，开关功能就可以闭合接通；当撤销压力时，开关就会断开，而内部结构是靠金属弹片受力变化来实现通断。最常见的按键开关，寰立有多种系列可以选择，可以依照尺寸大小、外观样式、功能、带灯等，也有高克重使用的脚踏开关、紧急开关；更具备防水型或 SMT 制程适合的系列。

Various index options are available for stand-alone rotary switches for applications ranging from 10mA to 12A. With a multi-pole, multi-gear, half-inch diameter, power switching slider and ultra-small switch type design, the vertical switchgear has short-circuit and non-short-circuit contacts and our switchgear allows you to achieve maximum design flexibility in either application mode.



HUANLI

DRS 系列 多段式

详细参数 / Detailed parameters



Pole-Position	1 pole, 2 position~8 position (STOP LESS) are available
Electrical Rating	0.5A 24V DC ; 0.2A 48V DC
Contact Resistance	00mΩ MAX
Insulation Resistance	100MΩmin. 500VDC
Dielectric Strength	Breakdown is not allowable 500V AC for 1 minute



DRS2 系列 多段式

详细参数 / Detailed parameters



Electrical Rating	0.5A 24V DC ; 0.2A 48V DC
Contact Resistance	100mΩ MAX.
Insulation Resistance	100MΩmin. 500VDC.
Dielectric Strength	500V AC for 1 minute
Operating Force	350±150g



DRS01系列 左侧带回弹档

详细参数 / Detailed parameters



Electrical Rating	8A 125/250VAC(UL,CUL) 12A-8(3)A250V~μT125/55(ENEC17,CB,CQC)
Contact resistance	50 mΩ Max
Insulation resistance	100MΩ Min 500VDC
Operational force	600±300gf/1300±500gf/1000±3000gf
voltage resistance	1KVAC for 1 minute



DRS01系列 Ø32外径

详细参数 / Detailed parameters



Electrical Rating	8A 125/250VAC(UL,CUL) 12A-8(3)A250V~μT125/55(ENEC17,CB,CQC)
Contact Resistance	50 mΩ Max
Insulation Resistance	1100MΩ Min 500VDC
Operational force	600±300gf/1300±500gf/1000±3000gf
voltage resistance	1KVAC for 1 minute



DRS01 系列 无回弹档

详细参数 / Detailed parameters



Pole-Position	8A 125/250VAC(UL,CUL) 12A-8(3)A250V~μT125/55(ENEC17,CB,CQC)
Electrical Rating	50 mΩ Max
Contact Resistance	100MΩ Min 500VDC
Insulation Resistance	600±300gf/1300±500gf/1000±3000gf
voltage resistance	1KVAC for 1 minute



DRS04系列 柄长10mm

详细参数 / Detailed parameters

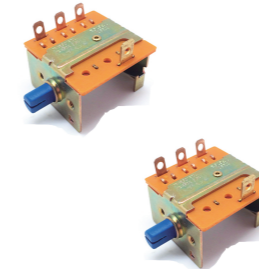


Electrical Rating	16A/26A 125/250VAC 40T125(UL;CUL) 16A 42VDC 40T125(UL;CUL;CQC;EMEC17;NEMKO) 16A/20A 125/250VAC 40T125(CQC;EMEC17;NEMKO)
Contact resistance	50 mΩ Max
Insulation resistance	100MΩ Min,AT 500VDC
voltage resistance	1500VAC 1 Minute
Electrical life	10,000 cycles



DRS31系列 旋转式

详细参数 / Detailed parameters

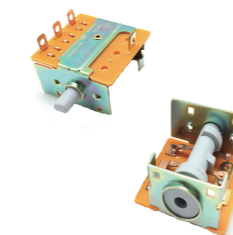


Electrical Rating	16A 125VAC(CQC) 12A 250VAC(CQC)
Contact resistance	50 mΩ Max
Insulation resistance	100MΩ Min 500VDC
Operational force	750~1000gf
Voltage resistance	1500VAC for 1 minute



DRS31系列 4段单极

详细参数 / Detailed parameters



Electrical Rating	16A 125VAC(CQC) 12A 250VAC(CQC)
Contact Resistance	50 mΩ Max
Insulation Resistance	100MΩ Min 500VDC
Operational force	750~1000gf
voltage resistance	1500VAC for 1 minute





Slide Switch

工业滑动开关

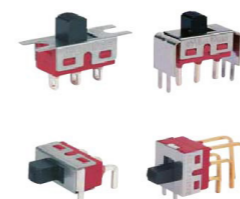
一流的滑动开关技术，大规模高质生产，寰立 是富有经验的滑动开关生产厂家以及滑动开关批发商。滑动开关属常开触点开关，无需手动拼接导线，一般来说，滑动开关普遍适用于中小型的电流项目中。滑动开关多具有指示灯，用以指示电路的状态，让操作员一眼使知开关是否经已打开。寰立 滑动开关具有超微型、微型、标准、工业和大功率版本，与 THT、表面贴装和面板安装应用相兼容。具有 SPST、SPDT、SP3T、DPST、DPDT、3PDT、4PDT 和 4P3T 功能，具有正向锁定、密封、短路或非短路触点选项。

First-class sliding switch technology, large-scale high-quality production, is an experienced sliding switch manufacturer and wholesaler of sliding switches. Sliding switches are normally open contacts and do not need to splice wires manually. Generally speaking, they are suitable for medium and small current projects. Sliding switches often have indicator lights to indicate the state of the circuit, allowing the operator to see at a glance whether the switch has been opened. Vertical sliding switches are available in ultra-micro, micro, standard, industrial and high-power versions and are compatible with THT, surface mounting and panel mounting applications. With SPST, SPDT, SP3T, DPST, DPDT, 3PDT, 4PDT and 433T functions, with forward locking, sealing, short-circuit or non-short-circuit contact options.



HUANLI

DSS01 系列 多种拨柄型



详细参数 / Detailed parameters

Contact Rating	Dependent upon contact material
Mechanical Life	30,000 make-and-break cycles.
Contact Resistance	10 mΩ max. initial @2- 4VDC, 100mA for both silver and gold plated contacts.
Insulation Resistance	1,000 mΩ min.
Dielectric Strength	1,000 Vrms min. @sea level.



DSS02 系列 强化型

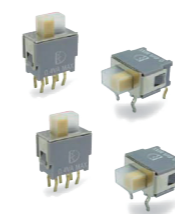


详细参数 / Detailed parameters

Contact Rating	Dependent upon contact material
Mechanical Life	30,000 make-and-break cycles.
Contact Resistance	20 mΩ max. initial @2- 4VDC, 100mA for both silver and gold plated contacts
Insulation Resistance	1,000 mΩ min.
Dielectric Strength	1,000 Vrms min. @sea level.



DSS03 系列 超小型防水



详细参数 / Detailed parameters

Contact Rating	Max 0.4 VA max @48 VAC or DC
Mechanical Life	minimu 40,000 operations
Contact Resistance	50 mΩ max.
Insulation Resistance	500 MΩ at 250 VDC.
Dielectric Strength	500V, 50Hz for the duration of 1 minute



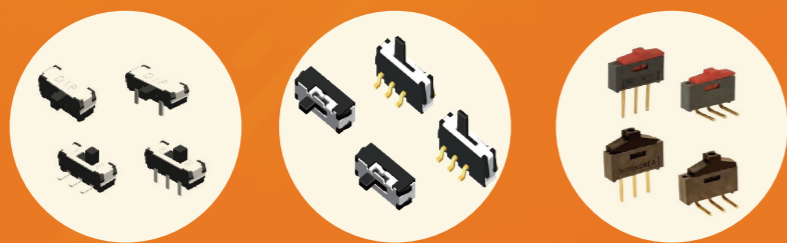
DSS04 系列 微型



详细参数 / Detailed parameters

Contact Rating	50 mΩ max. initial
Mechanical Life	20,000 cycles
Contact Resistance	1000 MΩ min.
Dielectric Strength	1,000 Vrms min. @sea level.
Operating Temperature	-40°C to 80°C





Mini Slide Switches

迷你滑动开关

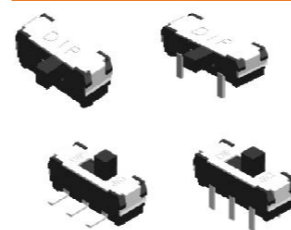
一流的滑动开关技术，大规模高质生产，寰立 是富有经验的滑动开关生产厂家以及滑动开关批发商。滑动开关属常开触点开关，无需手动拼接导线，一般来说，滑动开关普遍适合用于中小型的电流项目中。滑动开关多具有指示灯，用以指示电路的状态，让操作员一眼便知开关是否经已打开。寰立 滑动开关具有超微型、微型、标准、工业和大功率版本，与 THT、表面贴装和面板安装应用相兼容。具有 SPST、SPDT、SP3T、DPST、DPDT、3PDT、4PDT 和 4P3T 功能，具有正向锁定、密封、短路或非短路触点选项。

First-class sliding switch technology, large-scale high-quality production, is an experienced sliding switch manufacturer and wholesaler of sliding switches. Sliding switches are normally open contacts and do not need to splice wires manually. Generally speaking, they are suitable for medium and small current projects. Sliding switches often have indicator lights to indicate the state of the circuit, allowing the operator to see at a glance whether the switch has been opened. Vertical sliding switches are available in ultra-micro, micro, standard, industrial and high-power versions and are compatible with THT, surface mounting and panel mounting applications. With SPST, SPDT, SP3T, DPST, DPDT, 3PDT, 4PDT and 433T functions, with forward locking, sealing, short-circuit or non-short-circuit contact options.



HUANLI

SS03 系列 侧向



详细参数 / Detailed parameters

Contact Rating	0.1A, 12V DC
Contact Resistance	60mΩ max.
Insulation Resistance	100MΩmin. 500V DC
Dielectric Strength	500 V AC/1 minute
Operating Force	200±150gf



SS06-SS07 系列 微型



详细参数 / Detailed parameters

Contact Rating	25mA, 24V DC
Contact Resistance	70mΩ max.
Insulation Resistance	100MΩmin. 100V DC
Dielectric Strength	100 V AC/1 minute
Operating Life	10,000 cycles



SS08-SS09 系列 微型

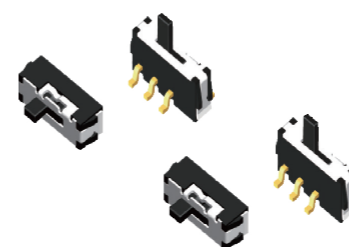


详细参数 / Detailed parameters

Contact Rating	25mA, 24V DC
Contact Resistance	70mΩ max.
Insulation Resistance	100MΩmin. 100V DC
Dielectric Strength	100 V AC/1 minute
Operating Life	10,000 cycles



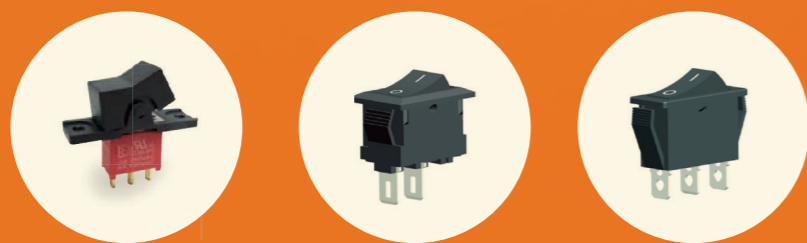
SS04 系列 高度2.0mm



详细参数 / Detailed parameters

Contact Rating	25mA, 24V DC
Contact Resistance	100mΩ max.
Insulation Resistance	100MΩmin. 500V DC
Dielectric Strength	D500 V AC/1 minute
Operating Force	100gf min./350gf max. (Detent Type) 150±100gf (Recoil Type)





Rocker Switches

翘板开关

利用多极、多档位功能，寰立 翘板开关可用于各种应用。像圆形、窄宽度、坚固结构、斜角框架、凹入开关保护等选项可以防止意外启动，防溅胶靴和超小型尺寸适用于节省空间的小占位面积，从而使 寰立 成为您首选的翘板开关供应商。

With multipole and Multishift capabilities, the Rocker Switch can be used in a variety of applications. Options such as round, narrow width, sturdy construction, diagonal frame, recessed switch protection prevent accidental start-up. Splash-proof boots and extra-small sizes are suitable for small space-saving footprint, making standing your preferred rocker switch supplier.

HUANLI



RKS01 系列 微型



详细参数 / Detailed parameters

Contact Rating	Dependent upon contact material
Mechanical Life	40,000 make-and-break cycles
Contact Resistance	10 mΩ max. initial @2- 4VDC, 100mA for both silver and gold plated contacts.
Insulation Resistance	1,000 mΩ min.
Dielectric Strength	1,000 Vrms min. @sea level.



RKS02 系列 防水

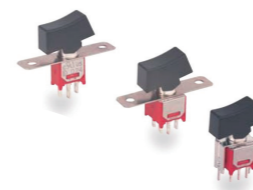


详细参数 / Detailed parameters

Contact Rating	Dependent upon contact material
Mechanical Life	30,000 make-and-break cycles
Contact Resistance	10 mΩ max. initial @2- 4VDC, 100mA for both silver and gold plated contacts.
Insulation Resistance	1,000 mΩ min.
Dielectric Strength	1,000 Vrms min. @sea level.



RKS03 系列 微型



详细参数 / Detailed parameters

Contact Rating	Dependent upon contact material
Mechanical Life	30,000 make-and-break cycles
Contact Resistance	20 mΩ max. initial @2- 4VDC, 100mA for both silver and gold plated contacts.
Insulation Resistance	1,000 mΩ min.
Dielectric Strength	1,000 Vrms min. @sea level.



RKS04 系列 密封微型防水



详细参数 / Detailed parameters

Contact Rating	Dependent upon contact material
Mechanical Life	430,000 make-and-break cycles
Contact Resistance	20 mΩ max. initial @2- 4VDC, 100mA for both silver and gold plated contacts.
Insulation Resistance	1,000 mΩ min.
Dielectric Strength	1,000 Vrms min. @sea level.



RKS05 系列 密封微型

详细参数 / Detailed parameters

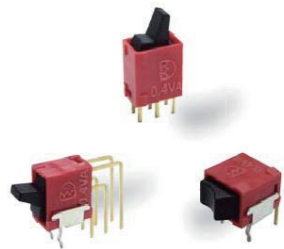


Contact Rating	Dependent upon contact material
Mechanical Life	50,000 make-and-break cycles
Contact Resistance	20 mΩ max. initial @2- 4VDC, 100mA for both silver and gold plated contacts.
Insulation Resistance	1,000 mΩ min.
Dielectric Strength	1,000 Vrms min. @sea level.



RKS06 系列 微型

详细参数 / Detailed parameters

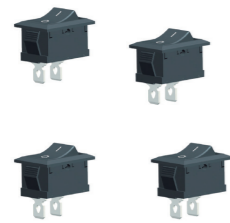


Contact Rating	0.4VA max. @20 V AC or DC max.
Mechanical Life	40,000 make-and-break cycles
Contact Resistance	100 mΩ typ. initial @2- 4VDC, 100mA .
Insulation Resistance	DC500V 500 MΩ
Dielectric Strength	500 Vrms min. @sea level.



RS601 系列 多电流选择

详细参数 / Detailed parameters

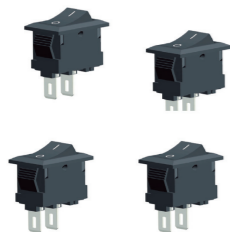


Rating	6A 250VAC 10A 250VAC 6(8)A 250VAC 6A/125A 250VAC 8A/128A 250VAC 6(4)A 250VAC 10A 125VAC
Contact Resistance	≤20mΩ
Insulation Resistance	≥100MΩ
Dielectric Intensity	≥1800VAC/3S
Electrical Life	≥10,000 cycles



RS601H 系列 微型

详细参数 / Detailed parameters



Rating	3A 250VAC 3A/40A 250VAC 3A 250VAC 6A/125VAC
Contact Resistance	≤20mΩ
Insulation Resistance	Insulation Resistance ≥100MΩ
Dielectric Intensity	Dielectric Intensity ≥1800VAC/3S
Electrical Life	Electrical Life ≥10,000 cycles



RS606 系列 扁平型

详细参数 / Detailed parameters

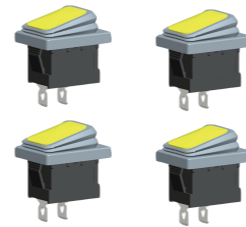


Rating	16(4)A 250VAC T85 20A 250VAC/25A 250VAC T105 16A 250VAC/16A 125VAC T125
Contact Resistance	≤20mΩ
Insulation Resistance	≥100MΩ
Dielectric Intensity	≥1800VAC/3S
Electrical Life	≥10,000 cycles



RS601 系列 单极定制款

详细参数 / Detailed parameters



Rating	16A 250VAC
Standard	IEC 60320 J
Insulation Resistance	100MΩ 500V DC/1 MIN
Dielectric Intensity	2500VAC/5S
Material	94V-2~V-0



RS601 系列 双极不带灯按钮

详细参数 / Detailed parameters

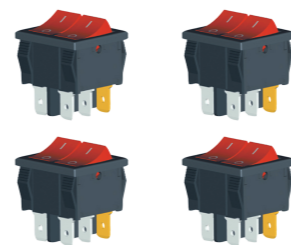


Rating	6A 250VAC 10A 250VAC 6(8)A 250VAC 6A/125A 250VAC 8A/128A 250VAC 6(4)A 250VAC 10A 125VAC
Contact Resistance	≤20mΩ
Insulation Resistance	≥100MΩ
Dielectric Intensity	≥1800VAC/3S
Electrical Life	≥10,000 cycles



RS601 系列 双极红色按钮

详细参数 / Detailed parameters



Rating	6A 250VAC 10A 250VAC 6(8)A 250VAC 6A/125A 250VAC 8A/128A 250VAC 6(4)A 250VAC 10A 125VAC
Contact Resistance	≤20mΩ
Insulation Resistance	≥100MΩ
Dielectric Intensity	≥1800VAC/3S
Electrical Life	10,000 cycles



DB-14 系列 电源插座

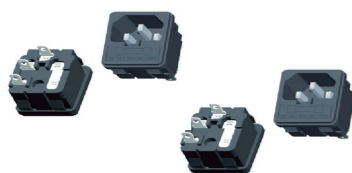
详细参数 / Detailed parameters



Rating	5A 250VAC T105 UL cUL 2.5A 250VAC ENEC VDE CCC KC
Standard	IEC 60320 C6
Insulation Resistance	100MΩ 500V DC/1 MIN
Dielectric Intensity	2500VAC/5S
Material	94V-2~V-0


DB-14-F 系列 电源插座

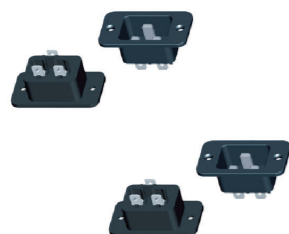
详细参数 / Detailed parameters



Rating	15A 250VAC T105 UL cUL 10A 250VAC ENEC VDE CCC KC
Standard	IEC 60320 C14
Insulation Resistance	1100MΩ 500V DC/1 MIN
Dielectric Intensity	2500VAC/5S
Material	94V-2~V-0


DB-20 系列 电源插座

详细参数 / Detailed parameters



Rating	16A 250VAC CCC
Standard	IEC 60320 C20
Insulation Resistance	100MΩ 500V DC/1 MIN
Dielectric Intensity	2500VAC/5S
Material	94V-2~V-0


DB-F 系列 电源插座

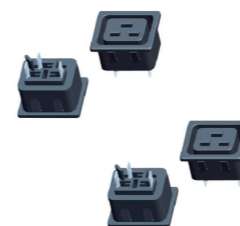
详细参数 / Detailed parameters



Rating	15A 250VAC T105 UL cUL 10A 250VAC CCC
Standard	IEC 60320 F
Insulation Resistance	100MΩ 500V DC/1 MIN
Dielectric Intensity	2500VAC/5S
Material	94V-2~V-0


DB-J 系列 电源插座

详细参数 / Detailed parameters



Rating	16A 250VAC
Standard	IEC 60320 J
Insulation Resistance	100MΩ 500V DC/1 MIN
Dielectric Intensity	2500VAC/5S
Material	94V-2~V-0


DB-6 系列 电源插座

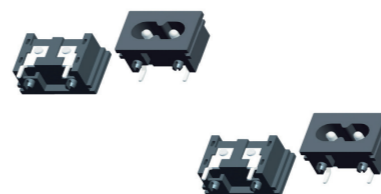
详细参数 / Detailed parameters



Rating	5A 250VAC T105 UL cUL 2.5A 250VAC ENEC VDE CCC KC
Mechanical	494V-2~V-0
Standard	IEC 60320 C6
Insulation Resistance	100MΩ 500V DC/1 MIN
Dielectric Strength	2500VAC/5S


DB-8 系列 电源插座

详细参数 / Detailed parameters



Rating	5A 250VAC T105 UL cUL 2.5A 250VAC ENEC VDE CCC KC
Standard	IEC 60320 C8
Insulation Resistance	100MΩ 500V DC/1 MIN
Dielectric Intensity	2500VAC/5S
Material	294V-2~V-0





Tact Switch

轻触开关

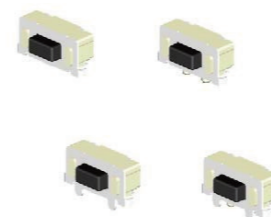
寰立 提供广泛的微型轻触开关、超微型轻触开关和微小型轻触开关，用于印刷电路板安装。寰立提供弯脚型轻触开关、6mm 轻触开关、密封轻触开关、带灯轻触开关、长寿命轻触开关，还有鸥翼、超薄、低噪声、SMT 和通孔版本，是为最苛刻的应用而设计。

Huanli provides a wide range of micro touch switches, micro touch switches and micro touch switches for printed circuit board installation. Huanli provides bent foot type touch switch, 6mm touch switch, sealed touch switch, light touch switch, long-life touch switch, gull-wing, ultra-thin, low-noise, SMT and through-hole versions, which are designed for the most demanding applications.



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TS21 系列 侧推式



详细参数 / Detailed parameters

Contact Rating	50mA ,12V DC
Contact Resistance	100mΩ max.
Insulation Resistance	100MΩmin. 500V DC
Dielectric Strength	250 V AC/1 minute
Operating Force	160±50gf/260±50gf



TS03-MJ-6 系列 贴片型

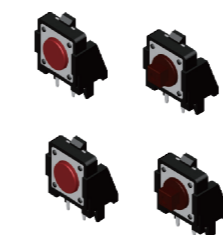


详细参数 / Detailed parameters

Contact Rating	50mA ,12V DC
Contact Resistance	100mΩ max.
Insulation Resistance	100MΩmin. 500V DC
Dielectric Strength	250 V AC/1 minute
Operating Force	100±50gf, Black(K) 160±50gf, Brown(N) 260±50gf, Red(R) 320±80gf, Salmon(S) 520±130gf, Yellow(Y)



TS02-A-2 系列 侧插式

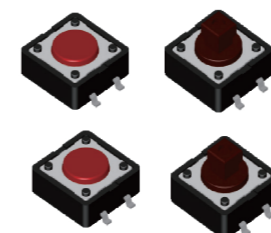


详细参数 / Detailed parameters

Contact Rating	50mA ,12V DC
Contact Resistance	100mΩ max.
Insulation Resistance	100MΩmin. 500V DC
Dielectric Strength	250 V AC/1 minute
Operating Force	160±50gf, Brown(N) 260±50gf, Red(R) 320±80gf, Salmon(S) 520±130gf, Yellow(Y)



TS02-M-2 系列 贴片式



详细参数 / Detailed parameters

Contact Rating	50mA ,12V DC
Contact Resistance	100mΩ max.
Insulation Resistance	100MΩmin. 500V DC
Dielectric Strength	250 V AC/1 minute
Operating Force	130±50gf, Black(K) 160±50gf, Brown(N) 260±50gf, Red(R) 320±80gf, Salmon(S) 520±130gf, Yellow(Y)



TS09-6 系列 4.0间距

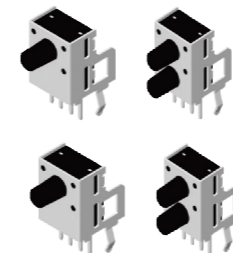
详细参数 / Detailed parameters



Contact Rating	50mA ,12V DC
Contact Resistance	100mΩ max.
Insulation Resistance	100MΩmin. 500V DC
Dielectric Strength	250 V AC/1 minute
Operating Force	100±50gf, Black(K) 160±50gf, Brown(N) 260±50gf, Red(R)


TS44 系列 双电路

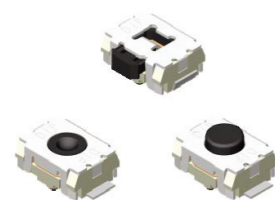
详细参数 / Detailed parameters



Contact Rating	50mA ,12V DC
Contact Resistance	100mΩ max.
Insulation Resistance	100MΩmin. 100V DC
Dielectric Strength	250 V AC/1 minute
Operating Force	180±50gf


TS32 系列 侧按

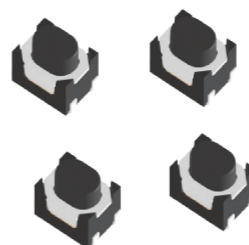
详细参数 / Detailed parameters



Contact Rating	50mA ,12V DC
Contact Resistance	100mΩ max.
Insulation Resistance	100MΩmin. 100V DC
Dielectric Strength	100 V AC/1 minute
Operating Force	160±50gf (Vertical push) 220±65gf (Side push)


TS45 系列 推动式

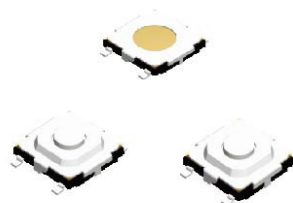
详细参数 / Detailed parameters



Contact Rating	50mA10μA ,1V DC to 50mA,16V DC
Contact Resistance	500mΩ max.
Insulation Resistance	100MΩmin. 100V DC
Dielectric Strength	250 V AC/1 minute
Operating Force	160±50gf/260±80gf 400±100gf ,12V DC


TS18-E-5 系列 5.2 x5.2mm

详细参数 / Detailed parameters



Contact Rating	50mA ,12V DC
Contact Resistance	100mΩ max.
Insulation Resistance	100MΩmin. 500V DC
Dielectric Strength	250 V AC/1 minute
Operating Force	70±50gf/100±50gf/160±50gf 260±50gf


TS01-A1 系列 密封型

详细参数 / Detailed parameters



Contact Rating	0.5~50mA ,24V DC
Contact Resistance	30mΩ max.
Insulation Resistance	10MΩmin. 100V DC
Dielectric Strength	250 V AC/1 minute
Operating Force	300±75gf


TS36 系列 小型

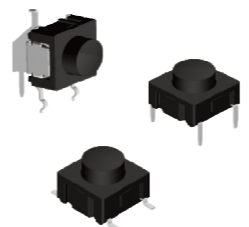
详细参数 / Detailed parameters



Contact Rating	10μA ,1V DC to 50mA,12V DC
Contact Resistance	500mΩ max.
Insulation Resistance	100MΩmin. 100V DC
Dielectric Strength	100 V AC/1 minute
Operating Force	160±50gf/200±50gf


TS01-A2 系列 密封型

详细参数 / Detailed parameters



Contact Rating	0.5~50mA ,24V DC
Contact Resistance	30mΩ max.
Insulation Resistance	10MΩmin. 100V DC
Dielectric Strength	250 V AC/1 minute
Operating Force	300±75gf





Led Tact Switch

带灯轻触开关

寰立 提供广泛的微型轻触开关、超微型轻触开关和微小型轻触开关，用于印刷电路板安装。寰立提供弯脚型轻触开关、6mm 轻触开关、密封轻触开关、带灯轻触开关、长寿命轻触开关，还有鸥翼、超薄、低噪声、SMT 和通孔版本，是为最苛刻的应用而设计。

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LTS04-H4 系列 直插型

详细参数 / Detailed parameters

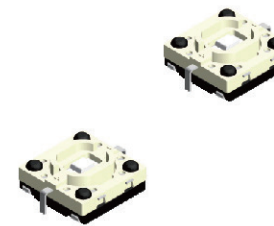


Contact Rating	50mA ,12V DC
Contact Resistance	100mΩ max.
Insulation Resistance	100MΩmin. 100V DC
Dielectric Strength	250 V AC/1 minute
Operating Force	160±50gf



LTS02 系列 贴片型

详细参数 / Detailed parameters



Contact Rating	50mA ,12V DC
Contact Resistance	100mΩ max.
Insulation Resistance	100MΩmin. 500V DC
Dielectric Strength	250 V AC/1 minute
Operating Force	160±50gf



LTS03 系列 直插型

详细参数 / Detailed parameters



Contact Rating	50mA ,12V DC
Contact Resistance	100mΩ max.
Insulation Resistance	100MΩmin. 500V DC
Dielectric Strength	250 V AC/1 minute
Operating Force	200±70gf



LTS04-H0 系列 直插型

详细参数 / Detailed parameters

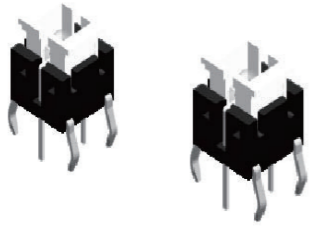


Contact Rating	50mA ,12V DC
Contact Resistance	100mΩ max.
Insulation Resistance	100MΩmin. 100V DC
Dielectric Strength	250 V AC/1 minute
Operating Force	160±50gf,180±50gf



LTS07 系列 直立式

详细参数 / Detailed parameters

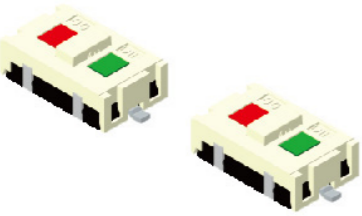


Contact Rating	50mA ,12V DC
Contact Resistance	100mΩ max.
Insulation Resistance	100MΩmin. 500V DC
Dielectric Strength	250 V AC/1 minute
Operating Force	100±50gf (LTS07-61) 160±50gf (LTS07-62) 260±50gf (LTS07-63)



LTS08系列 直立式

详细参数 / Detailed parameters

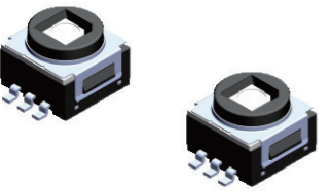


Contact Rating	50mA ,12V DC
Contact Resistance	100mΩ max.
Insulation Resistance	100MΩmin. 500V DC
Dielectric Strength	250 V AC/1 minute
Operating Force	160+80/-30gf



LTS09 系列 贴片型

详细参数 / Detailed parameters

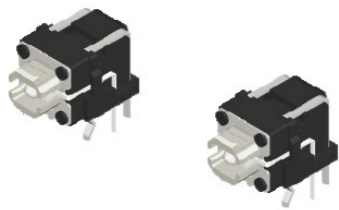


Contact Rating	50mA ,32V DC
Contact Resistance	100mΩ max.
Insulation Resistance	100MΩmin. 100V DC
Dielectric Strength	250 V AC/1 minute
Operating Force	400±100gf



LTS10系列 侧向式

详细参数 / Detailed parameters



Contact Rating	50mA ,12V DC
Contact Resistance	100mΩ max.
Insulation Resistance	100MΩmin. 500V DC
Dielectric Strength	250 V AC/1 minute
Operating Force	160±50gf/260±50gf



Micro Detector Switches

侦测开关

侦测开关，顾名思义，「侦测」机械内部活动，将人为操作转化成电子信号。利用 19 个不同系列的标准检测开关，寰立在 SMT、THT、面板和卡入 / 底盘与螺钉安装版本中提供了最广泛的选择。寰立的侦测开关具有各种尺寸和形状，并且具有多种按的定位，包括垂直或水平，顶部或侧面，以及右角度或左角度定位，并且带有软启动力。这些侦测开关包括超薄型、紧凑型、微型和超微型设计，提供多种密封形式。

The detection switch, as the name implies, "detects" the internal activities of the machine and converts human operations into electronic signals. With 19 different series of standard detection switches, Huanli offers the widest selection of SMT, THT, panel and clip in/chassis and screw mounting versions. Huanli's detection switch has various sizes and shapes, and has a variety of positioning, including vertical or horizontal, top or side, and right or left angle positioning, with soft start power. These detection switches include ultra-thin, compact, micro and subminiature designs, providing a variety of sealing forms.



HUANLI

DES01 系列 3.3x3.5mm

详细参数 / Detailed parameters



Rating	50 μ A, 3V DC min. 1mA, 5V DC max.
Contact Resistance	2 Ω max.
Insulation Resistance	100M Ω min. 100V DC
Dielectric Strength	100 V AC/1 minute
Operating Force	35gf max.


DES07 系列 2.8x3.5mm

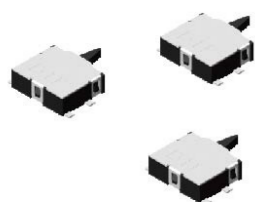
详细参数 / Detailed parameters



Rating	1mA ,5V DC
Contact Resistance	2 Ω max.
Insulation Resistance	100M Ω min. 100V DC
Dielectric Strength	100 V AC/1 minute
Operating Force	50gf max.


DES02 系列 4.15x5.0mm

详细参数 / Detailed parameters



Rating	10mA ,5V DC
Contact Resistance	500m Ω max.
Insulation Resistance	100M Ω min. 100V DC
Dielectric Strength	100 V AC/1 minute
Operating Force	30gf max.


DES09 系列 3.6x4.2mm

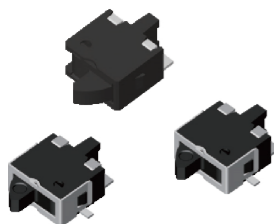
详细参数 / Detailed parameters



Rating	50uA ,3V DC to 10 mA, 5 V DC
Contact Resistance	1 Ω max.
Insulation Resistance	100M Ω min.
Dielectric Strength	100 V AC/1 minute
Operating Force	40gf max.


DES04 系列 4.7x6.0mm

详细参数 / Detailed parameters



Rating	50mA ,20V DC
Contact Resistance	C1 Ω max.
Insulation Resistance	100M Ω min. 100V DC
Dielectric Strength	100 V AC/1 minute
Operating Force	50gf max.


DES10 系列 3.6x4.2mm

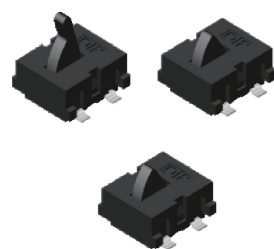
详细参数 / Detailed parameters



Rating	50uA ,3V DC to 10 mA, 5 V DC
Contact Resistance	1 Ω max.
Insulation Resistance	100M Ω min.
Dielectric Strength	100 V AC/1 minute
Operating Force	40gf max.


DES06 系列 4.5x4.7mm

详细参数 / Detailed parameters



Rating	1mA ,5V DC
Contact Resistance	1 Ω max.
Insulation Resistance	100M Ω min. 100V DC
Dielectric Strength	100 V AC/1 minute
Operating Force	40gf max.

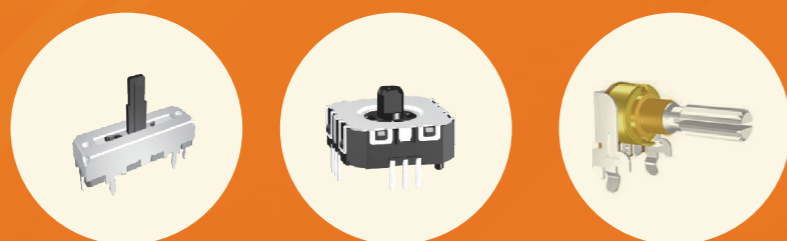

DES12 系列 4.2x3.6mm

详细参数 / Detailed parameters



Rating	100 μ A ,3V DC min. 1mA, 5V DC max.
Contact Resistance	3 Ω max.
Insulation Resistance	100M Ω min. 100V DC
Dielectric Strength	100 V AC/1 minute
Operating Force	35gf max.





Potentiometer Switches

电位器开关

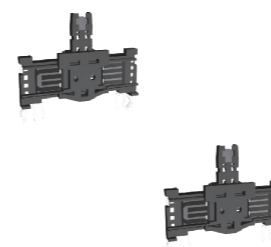
弹簧旋转式带开关电位器是转动旋转轴带动摆块，弹簧的一端连摆块，另一端连动接触片，通过摆块的摆动，使弹簧跳动，从而接通或断开功能。

The spring rotary potentiometer with switch is used to turn the rotary shaft to drive the swing block. One end of the spring is connected with the swing block, and the other end is connected with the contact piece. The swing of the swing block makes the spring jump, thus connecting or disconnecting the function.



HUANLI

FGXX92 系列 薄型滑动式

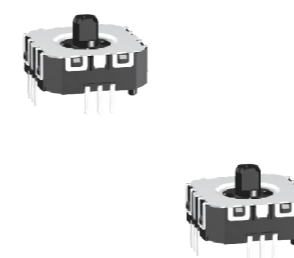


详细参数 / Detailed parameters

Total Resistance	1KΩ~1MΩ
Full Resistance Tolerance	500Ω<R<1MΩ: ±20%; R<500Ω or R>1MΩ: ±30%
Resistance Taper	A, B, W
Rated Power	Hold at AC 250V for 1 minute
Withstand Voltage	>100MΩ at DC 250V



FGJ08K 系列 标准操纵杆

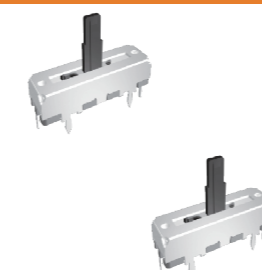


详细参数 / Detailed parameters

Total Resistance	5KΩ~100KΩ
Full Resistance Tolerance	±20%
Resistance Taper	B taper
Rated Power	B: 0.0125W
Withstand Voltage	1 minute at AC 250V



FGXX05 系列 标准滑动式



详细参数 / Detailed parameters

Total Resistance	1KΩ~1MΩ
Total Resistance Tolerance	500Ω<R<1MΩ: ±20%; R<500Ω or R>1MΩ: ±30%
Resistance Taper	A, B, C
Withstand Voltage	1 minute at AC 300V
Insulated Resistance	>10MΩ at DC 250V



FG082 系列 金属轴旋转式



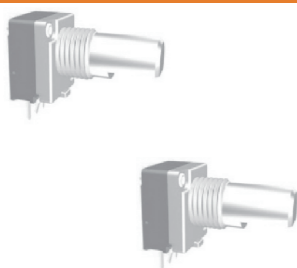
详细参数 / Detailed parameters

Total Resistance	1KΩ~1MΩ
Resistance Tolerance	500Ω<R<1MΩ: ±20%; R≤500Ω or R≥1MΩ: ±30%
Resistance Taper	A, B, C
Max. Operating Voltage	AC 50V, DC 10V
Rated Power	0.05W



FG091 系列 金属轴旋转式

详细参数 / Detailed parameters



Total Resistance	1K Ω ~1M Ω
Total Resistance Tolerance	500 Ω <R<1M Ω : \pm 20% R<500 Ω or R>1M Ω : \pm 30%
Resistance Taper	A, B, C
Max. Operating Voltage	AC50V.DC10V
Rated Power	Linear Taper B: 0.05W Other Tapers: 0.025W


FG11 系列 开放式微调

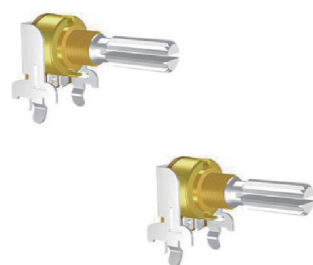
详细参数 / Detailed parameters



Total Resistance	100 Ω ~1M Ω
Total Resistance Tolerance	500 Ω <TR<1M Ω , \pm 20% 500 \geq TR, \pm 30%
Resistance Taper	A,B,C
Max. Operating Voltage	AC50V
Rated Power	0.1W


FG-125K 系列 金属轴旋转式

详细参数 / Detailed parameters



Total Resistance	1K Ω ~1M Ω
Total Resistance Tolerance	\pm 20%
Resistance Taper	A, B, C, D, etc
Max. Operating Voltage	Single Unit: AC 50V / DC 20V Dual Unit: DC 20V
Rated Power	Single Unit: 0.05W Dual Unit: 0.03W


FG10K 系列 10mm 竖直型操纵杆

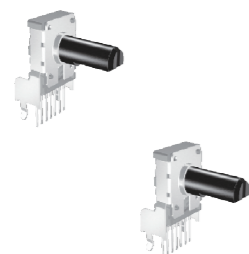
详细参数 / Detailed parameters



Total Resistance	10K Ω ~100K Ω
Total Resistance Tolerance	\pm 20%
Resistance Taper	B
Rated Power	0.0125W
Withstand Voltage	1minute at AC 250V


FG14K 系列 绝缘轴旋转式

详细参数 / Detailed parameters



Total Resistance	1K Ω ~1M Ω
Total Resistance Tolerance	500 Ω <R<1M Ω : \pm 20% R<500 Ω or R>1M Ω : \pm 30%
Resistance Taper	A, B, C
Max. Operating Voltage	AC 50V
Rated Power	0.05W


FG201 系列 小型滑动式

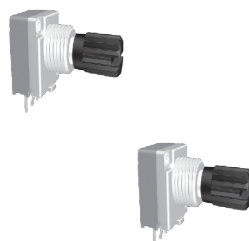
详细参数 / Detailed parameters



Total Resistance	500 Ω ~1M Ω
Total Resistance Tolerance	\pm 20%
Resistance Taper	A, B, C, D etc.
Withstand Voltage	5mm~15mm: 1 minute at AC 100V 20mm: 1 Minute at AC 250V
Insulated Resistance	5mm~15mm: > 50M Ω at DC 100V 20mm: > 50M Ω at DC 250V Sliding Noise: < 100mV


FG093 系列 绝缘轴旋转式

详细参数 / Detailed parameters



Total Resistance	1K Ω ~1M Ω
Total Resistance Tolerance	500 Ω <R<1M Ω : \pm 20% R<500 Ω or R>1M Ω : \pm 30%
Resistance Taper	A, B, C
Max. Operating Voltage	AC50V, DC10V
Rated Power	Linear Taper B: 0.05W Other Tapers: 0.025W

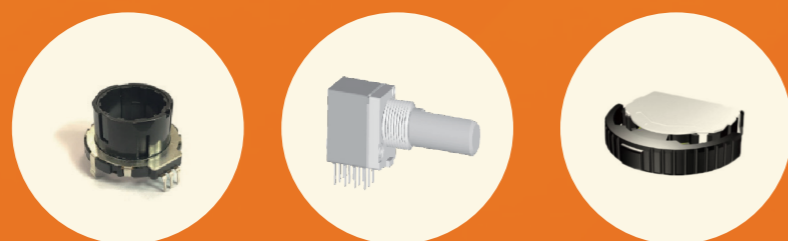

FG10008 系列 小型滑动式

详细参数 / Detailed parameters



Total Resistance	1K Ω ~1M Ω
Total Resistance Tolerance	500 Ω
Resistance Taper	A, B, C
Withstand Voltage	1 minute at AC 300V
Insulated Resistance	>100M Ω at DC 250V





Encoder Switches

编码器开关

编码器开关分为环型编码器、开关型编码器以及旋转轴编码器，它具有左转，右转功能，有的旋转编码器开关还有按下功能。

Encoder switch is divided into ring encoder, switch encoder and rotary shaft encoder. It has left turn and right turn functions. Some rotary encoder switches also have press function.

HUANLI



FG28E 系列 环型

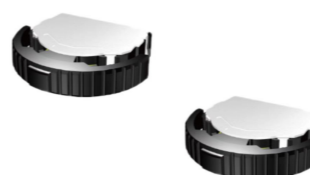


详细参数 / Detailed parameters

Rated Power	DC 5V 10mA (1mA Min)
Fluttering (Contact)	<3ms
Insulation Resistance	> 100MΩ at 250V 1mA
Withstand Voltage	1 minute at AC 300V 1mA
Sliding Noise	<2ms



FGSC120 系列 开关型

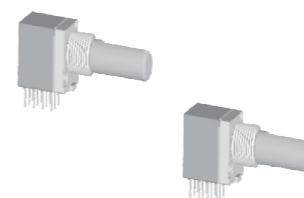


详细参数 / Detailed parameters

Rated Voltage	10mA, DC 5V
Insulation Resistance	>100MΩ at DC 100V Withstand Voltage: 1 minute at AC 100V
Sliding Noise	T2 ≤ 3ms
Fluttering	T1, T3 ≤ 8ms
Operating Force	Push Force: 2 ± 1N (102~306gf)



FGSR08 系列 开关型

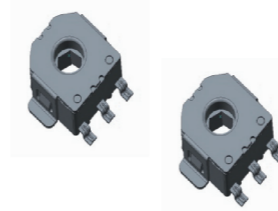


详细参数 / Detailed parameters

Contact Resistance	≤ 5Ω
Rated Voltage	DC 5V
Rated Current	1mA (2mA at common terminal)
Maximum Operating Current	2.5mA (5mA at common terminal)
Insulation Resistance	>100MΩ at DC 250V



FG05E 系列 旋转轴



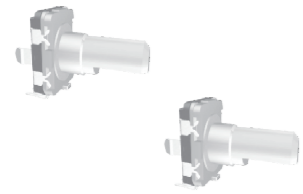
详细参数 / Detailed parameters

Rated Power	DC5V,0.55mA(0.55mA max)
Fluttering	t1,t3<6ms
Insulation Resistance	>50MΩ at 50V 1mA
Withstand Voltage	1 minute at AC 300V 1mA
Sliding Noise (Bounce)	t2<6ms



FG11E 系列 旋转轴

详细参数 / Detailed parameters



Rated Power	DC 5V 10mA ($\geq 1\text{mA}$)
Fluttering	$t_1, t_3 < 3\text{ms}$
Insulation Resistance	$> 100\text{M}\Omega$ at 250V 1mA
Withstand Voltage	1 minute at AC 300V 1mA
Sliding Noise (Bounce)	$t_2 < 2\text{ms}$



FG13E 系列 旋转轴

详细参数 / Detailed parameters

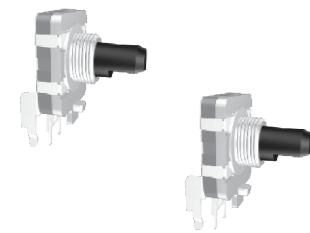


Rated Power	DC5V, 10mA($>1\text{mA}$)
Fluttering	$t_1, t_3 \leq 3\text{ms}$
Insulation Resistance	$> 1\text{M}\Omega$
Withstand Voltage	1minute at AC 20V 1 mA
Sliding Noise	$T_2, \leq 2\text{ms}$



FG16E 系列 旋转轴

详细参数 / Detailed parameters

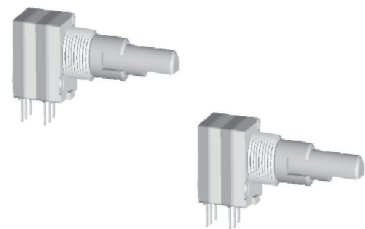


Rated Power	DC 5V, 5mA ($\geq 0.5\text{mA}$)
Fluttering	$t_1, t_3 < 3\text{ms}$
Insulation Resistance	$> 10\text{M}\Omega$ at DC50V 1mA
Withstand Voltage	1 minute at AC 50V 1mA
Sliding Noise (Bounce)	$t_2 < 2\text{ms}$

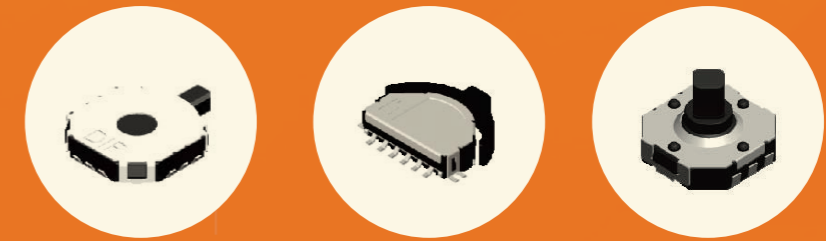


FG081E 系列 旋转轴

详细参数 / Detailed parameters



Rated Power	DC 5V, 2.5mA ($\geq 1\text{mA}$)
Contact Resistance	10 Ω Max at DC 5V, 1mA
Insulation Resistance	$> 100\text{M}\Omega$ at 250V for 1 minute
Withstand Voltage	AC 300V for 1 minute
Number of Detent	20 detents (Angle: $18 \pm 3^\circ$)



Function Switches

复合开关

复合开关是将高耐压大电流晶闸管与磁保持继电器的触点相并联，通过微电脑控制，自动寻找最佳投入点和最佳切除点，实现电压过零投入和电流过零切除，通断瞬间由晶闸管完成，运行通流由磁保持继电器经脉冲电压触发使触点吸合而完成。

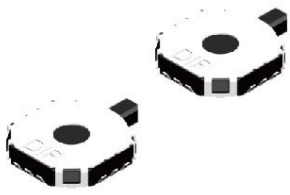
The compound switch is to connect the high voltage and high current thyristor in parallel with the contact of the magnetic holding relay. Through the microcomputer control, it can automatically find the best input point and the best cutoff point to realize the voltage zero-crossing input and current zero-crossing cutoff. The turn-on and turn-off moment is completed by the thyristor, and the operation current is completed by the magnetic holding relay through the pulse voltage trigger to make the contact close.



HUANLI

MS05 系列 7.0x7.0mm

详细参数 / Detailed parameters



Contact Rating	10mA , 3V DC~10mA, 5V DC
Contact Resistance	1Ω max.
Insulation Resistance	100MΩmin. 500V DC
Dielectric Strength	00 V AC/1 minute
Operating Force	Lever: 70gf.cm MAX Push: 90±40gf, 1st 190±60gf, 2nd


MS06 系列 11.8x11.8mm

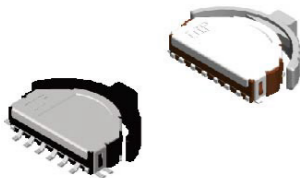
详细参数 / Detailed parameters



Contact Rating	10mA , 5V DC
Contact Resistance	100mΩ max.
Insulation Resistance	100MΩmin. 100V DC
Dielectric Strength	100 V AC/1 minute
Operating Force	70±50gf,Lever (CW.CCW) 200±100gf,Center push


MS07 系列 11.3x9.3mm

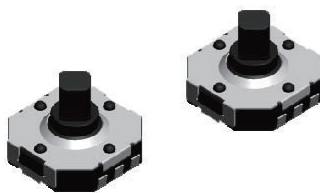
详细参数 / Detailed parameters



Contact Rating	10mA , 5V DC
Contact Resistance	100mΩ max.
Insulation Resistance	100MΩmin. 100V DC
Dielectric Strength	100 V AC/1 minute
Operating Force	40±20gf,Return actuator 150+100/-50gf,Center push direction


MS08-45 系列 7.7x7.4mm

详细参数 / Detailed parameters



Contact Rating	50mA , 12V DC
Contact Resistance	100mΩ max.
Insulation Resistance	100MΩmin. 100V DC
Dielectric Strength	250 V AC/1 minute
Operating Force	160gf,4-direction 360gf,Center push



Sensor Switches

感应开关

感应开关，又称为倾斜开关、跌倒开关、防跌倒开关、防倾倒开关。按需求的不同有 10 度、15 度、20 度、30 度、45 度、65 度等不同型号可选择。主要功能是用来侦测设备仪器倾斜的角度超过所设定角度时，即产生讯号变化，再由控制电路进行断电保护的功能或发出警报等设定通知。

Inductive switch, also known as tilt switch, fall switch, anti-fall switch and anti-fall switch. According to different requirements, there are 10 degrees, 15 degrees, 20 degrees, 30 degrees, 45 degrees, 65 degrees and other different models to choose from. The main function is to detect the signal change when the tilt angle of the equipment exceeds the set angle, and then the control circuit performs the function of power-off protection or sends out alarm and other setting notifications.



HUANLI

QBS020602 系列 离心力冲击

详细参数 / Detailed parameters



Contact Resistance	10Ω max.
Contact Capacity	10mA, 5VDC
Insulation Resistance	50MΩ min., 100VDC
Dielectric Strength	50VDC min., 1minute
Switch Capacitance	5pF max.



QBS1006 系列 四向角度旋转

详细参数 / Detailed parameters

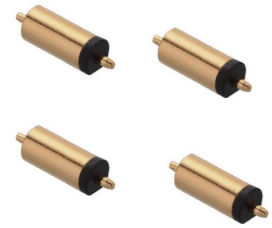


Contact Capacity	10mA, 5VDC
Contact Resistance	50 Ω max.
Insulation Resistance	50 MΩ min., 100VDC
Dielectric Strength	50 VDC min., 1minute
Switch Capacitance	5pF max.



QBS021002T 系列 离心力冲击

详细参数 / Detailed parameters

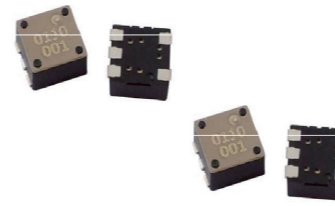


Contact Capacity	10 mA, 5VDC
Insulation Resistance	50 MΩ min., 100 VDC
Dielectric Strength	50 VDC min., 1minute
Switch Capacitance	5pF max.
Operating Temperature	-25°C ~ 85°C



QBS350100T 系列 四向角度旋转

详细参数 / Detailed parameters



Backweld Furnace	Peak Temp.=255~260°C
Operating Temperature	-25°C ~ 85°C
Storage Temperature	-40°C ~ 85°C
Humidity	40°C / 95%RH
Mechanical Life	2HZ, horizontal 1,000,000 cycles



QBS390103 系列 倾斜角度

详细参数 / Detailed parameters



Operating Angle	30°±15°
Form	DIP
Dimension	8mm*10.5mm*10 mm
Operating Temperature	-25°C ~ 85°C
Storage Temperature	-40°C ~ 85°C



QBS030600 系列 震动

详细参数 / Detailed parameters



Contact Capacity	10 mA, 5VDC
Insulation Resistance	1,000 MΩ min., 100 VDC
Dielectric Strength	500 VDC min., 1 minute
Switch Capacitance	5 pF max.
Backweld Furnace	Peak Temp.=255~260°C



QBS400100 系列 倾斜角度

详细参数 / Detailed parameters

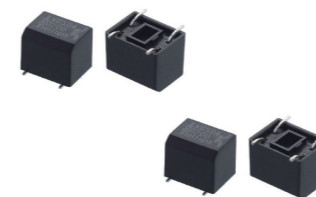


Operating temperature	-25°C ~ 85°C
Storage temperature	-40°C ~ 85°C
humidity	40°C / 95%RH
Mechanical life	2 HZ, horizontal 1,000,000 cycles
Electrical life	IF=20 mA VCE=5 V TIME: 30,000 hrs



QBS040200T 系列 震动

详细参数 / Detailed parameters



Operating Temperature	-25°C ~ 85°C
Storage Temperature	-40°C ~ 85°C
Humidity	40°C / 95%RH
Mechanical Life	2 HZ, horizontal 1,000,000 cycles
Electrical Life	IF=20 mA, VCE=5 V TIME: 30,000 hrs





Key Lock Switch

钥匙开关

钥匙开关泛指透过钥匙启动的开关，寰立 齐集常见的钥匙开关款式，以高质量、高性价比见称，钥匙开关协助您保护及管理各种装置及设备。HUANLI 的钥匙开关可采用塑料或金属外壳，配备 4 至 6 个转臂，支持各种安全需求。微型、防静电和瞬间形式与套管或微动安装相结合，用于广泛的产品选择。不同领域都需要钥匙开关，常见如收款机、电梯、不同电子设备等。

有多年生产经验的 寰立，致力成为您的钥匙开关厂家直销选择。除了提供多款钥匙开关，如钥匙电锁开关、金属钥匙开关、工业钥匙开关等，稳定的货源亦带给各行各业信心依靠。各个钥匙开关款式外型美观，组装方便。我们的宗旨是生产使用寿命长的钥匙开关，因此产品特别采用了加厚铜件，不易滑丝，导电性能优，可放心选用。要选耐用、运行稳定的钥匙开关直销厂家，寰立 是您必然的首选。

The key switch generally refers to the switch that is activated by the key. Huanli collects common key switch styles and is known for its high quality and cost-effective. The key switch helps you protect and manage various devices and equipment. The key switch of HUANLI can be made of plastic or metal shell and equipped with 4 to 6 swivel arms to support various security requirements. Miniature, anti-static and instantaneous forms are combined with sleeve or micro-motion installation for a wide range of product choices. Key switches are required in different fields, such as cash registers, elevators, and different electronic devices.

Huanli, with many years of production experience, is committed to becoming your direct sales choice for key switch manufacturers. In addition to providing a variety of key switches, such as key electric lock switch, metal key switch, industrial key switch, etc., the stable supply of goods also brings confidence to all walks of life. Each key switch has beautiful appearance and convenient assembly. Our purpose is to produce key switches with long service life. Therefore, the products are specially made of thickened copper parts, which are not easy to slip and have excellent electrical conductivity, and can be safely selected. To choose a durable and stable key switch direct sales manufacturer, Huanli is your inevitable first choice.

HUANLI



JTS112 系列 12mm 外径电源

详细参数 / Detailed parameters



Type	SPST
Power-on Mode	off-on
Lock head Fixing Mode	Hexagon nut
Turn	90°
Terminal	2



JTS117 系列 12mm 外径电源

详细参数 / Detailed parameters



Power-on Mode	off-on
Lock Head Fixing Mode	Hexagon nut
Type	SPST
Key Pulls	1/2
Turn	90°



JTS109B 系列 12mm 外径电源

详细参数 / Detailed parameters



Material	Zinc alloy lock case, lock core
Film Arrangement	4
Type	SPST
Turn	90°
Lock Head Fixing Mode	Hexagon nut



JTS1052 系列 12mm 外径电源

详细参数 / Detailed parameters



Material	Zinc alloy lock case, lock core, rolling chrome plating
Lock Head Fixing Mode	Hexagon nut or insert
Type	SPST/SPDT
Turn	90°
Terminals	2/4



JTS331 系列 16mm 外径电源

详细参数 / Detailed parameters



Material	Zinc alloy lock case, bright chrome plating, nylon lock core
Lock Head Fixing Mode	Lock head fixing mode
Power-On Mode	on-on/off-on/off-on-on
Turn	60°/120°
Type	SPDT/SPST


JTS203 系列 UL认证电源

详细参数 / Detailed parameters



Material	Zinc alloy lock case, lock core, bright chrome plating
Film Arrangement	11
Lock Head Fixing Mode	Hexagon nut
Turn	90°
Key Pulls	1/2


JTS334B 系列 16mm 外径电源

详细参数 / Detailed parameters



Material	Zinc alloy lock case, nylon lock core
Lock Head Fixing Mode	Hexagon nut or insert
Power-On Mode	off-on
Turn	90°
Key Pulls	1/2


JTS203A 系列 UL认证电源

详细参数 / Detailed parameters



Material Z	Zinc alloy lock case, lock core, bright chrome plating
Lock Head Fixing Mode	Hexagon nut
Power-On Mode	off-on
Key Type	Rebound type
Type	SPST


JTS246 系列 19mm 外径电源

详细参数 / Detailed parameters



Material	Zinc alloy lock shell, lock core, color zinc plating
Power-On Mode	off-on
Type Of Key	Rebound type
Turn	90°
Type	SPST


JTS1096 系列 双功能电源

详细参数 / Detailed parameters



Standard Specification For Iron Bar	13mm
Material	Zinc alloy lock case, lock core, bright chrome plating
Lock Head Fixing Mode	Hexagon nut or insert
Power-On Mode	off-on
Turn	90°


JTS286A 系列 19mm 外径电源

详细参数 / Detailed parameters



Power-On Mode	on-on (2NO 2NC)
Material	Zinc alloy lock case, lock core, bright chrome plating
Lock Head Fixing Mode	Hexagon nut
90°	90°
Terminals	4


JTS1097 系列 双功能电源

详细参数 / Detailed parameters



Standard Specification For Iron Bar	13mm
Material	Zinc alloy lock case, lock core, bright chrome plating
Lock Head Fixing Mode	Hexagon nut or insert
Power-On Mode	off-on
Turn	90°





Overload Switch

过载保护开关

过载保护开关是根据电气控制行业的实际需要设计的电路保护装置，采用单片机技术，功能齐全，动作可靠，抗干扰能力强，适应恶劣的工作环境。可对电气系统，鼠笼电机，绕线电机的过电流，短路，缺相，相失衡，错相及启动过程（避启动过电流）等提供有效的保护。

Overload protection switch is a circuit protection device designed according to the actual needs of the electrical control industry. It adopts single-chip technology, has complete functions, reliable action, strong anti-interference ability, and adapts to the harsh working environment. It can provide effective protection for the electrical system, squirrel-cage motor, winding motor over current, short circuit, phase loss, phase imbalance, phase mismatch and starting process (avoiding starting over current).



HUANLI

TS1 系列 自恢复保险丝



详细参数 / Detailed parameters

Rated Voltage	AC 125/250V DC 50V
Rated Current	3-50A
Interrupt Capacity	125/250VX1,000A 50VX200A
Insulation Resistance	>500MΩ
Resettable overload capacit	Ten Times Rated Current



TS2 系列 2-20A过电流



详细参数 / Detailed parameters

Rated Voltage	AC 125/250V DC 50V
Rated Current	2-20A
Interrupt Capacity	125/250VX1,000A 50VX200A
Insulation Resistance	>500MΩ
Resettable overload capacit	Ten Times Rated Current



TS3 系列 2-16A自恢复保险丝



详细参数 / Detailed parameters

Rated Voltage	AC 125/250V DC 50V
Rated Current	2-16A
Interrupt Capacity	125/250VX1,000A 50VX200A
Insulation Resistance	>500MΩ
Resettable overload capacit	Ten Times Rated Current



TS7 系列 按钮重置型



详细参数 / Detailed parameters

Electrical Ratings	90°C~145°C, 125/250VAC
Operation Temperature	90°C~145°C
Interrupt Capacity	1,000A
Dielectric strength	1,500VAC (1min)
Insulation Resistance	≥100MΩ



TS 系列 1.5-20A小型


详细参数 / Detailed parameters

Rated Voltage	AC 125/250V DC 50V
Rated Current	3-50A
Interrupt Capacity	125/250VX1,000A 50VX200A
Insulation Resistance	>500MΩ
Resettable overload capacity	Ten Times Rated Current


E5 系列 小型 自动复位断路器


详细参数 / Detailed parameters

Rated Voltage	DC 14/28V
Rated Current	3-60A
Interrupt Capacity	28VdcX1000A
Resettable overload capacity	Ten Times Rated Current
Ingress Protection Rating	IP66 For Plastic Cover


E3系列 直插自动复位断路器

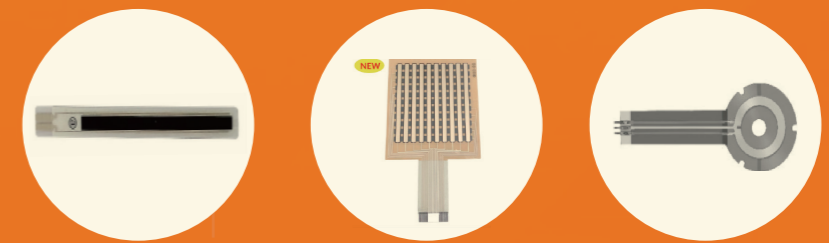

详细参数 / Detailed parameters

Rated Voltage	125V/250VAC 6~24Vdc
Rated Current	5~30A (according requirement)
Interrupt Capacity	125VacX1000A 250VacX200A
Insulation Resistance	>100MΩ
Resettable overload capacity	Ten Times Rated Current


E7系列 插片式断路器


详细参数 / Detailed parameters

Rated Voltage	DC 14V
Rated Current	5-30A
Interrupt Capacity	200A@14Vdc (for 5~15A) 400A@14Vdc (for 20~30A)
Insulation Resistance	>100MΩ
Resettable overload capacity	Ten Times Rated Current



Sensing Element Switch

感测元件开关

柔软、弹性佳，反复拉伸仍可维持高度再现性，可用来量测物品或人体动作之伸缩变化量。

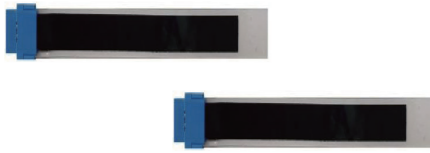
It is soft and elastic, and can still maintain high reproducibility after repeated stretching. It can be used to measure the expansion and contraction changes of objects or human movements.



HUANLI

ALPC100 系列 拉伸

详细参数 / Detailed parameters

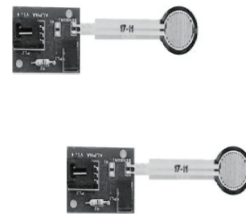


Stretchable Range	0 ~ 100%
Active Sensing Zone	96mm * 10mm
Capacitance (un-stretched)	160pf ~ 240pf
Operation Temperature	10°C ~ 50°C
Life Cycle	500,000 cycles



ALPF01系列 压阻套件

详细参数 / Detailed parameters



Force Sensitivity Range	30g~1,000g (0.3N~9.8N)
Active Area	Φ14.7mm
Force Repeatability (Single part)	±5%
Force Repeatability (part to part)	±20%
Force Resolution	continuous (Analog)



ALPB060 系列 弯曲

详细参数 / Detailed parameters



Angle Range	0°~180°
Resolution	1°
Life Cycle	>1,000,000 cycles
Response Time	< 1ms
Operating Temp	-20°~70°



ALPB090 系列 弯曲

详细参数 / Detailed parameters

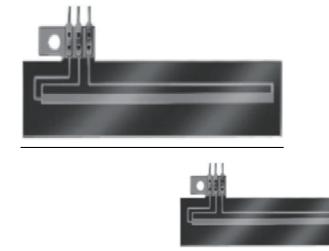


Angle Range	0°~180°
Resolution	1°
Life Cycle	>1,000,000 cycles
Response Time	< 1ms
Operating Temp	-20°~70°



ALPAT060-A03 系列 位置

详细参数 / Detailed parameters

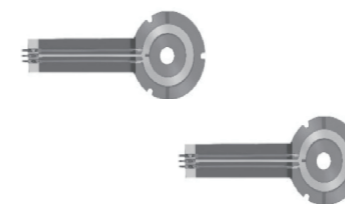


Position Linearity,Independent	±3%
Resistance Tolerance	±20%
Active length	60mm
Power Rating	1 watt max. @25°C
Life Cycle (without failure)	>500,000 cycles



ALPVT040 系列 位置

详细参数 / Detailed parameters

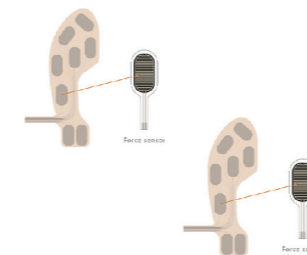


Position Linearity,Independent	±3%
Resistance Tolerance	±20%
Active length	345 degrees
Power Rating	1 watt max. @25°C
Life Cycle (without failure)	>500,000 cycles



ALPF18-A01 系列 鞋垫压力分布

详细参数 / Detailed parameters



Pressure Sensitivity Range	0.5 bar~20 bar (49N~980N)
Force Repeatability (Single part)	±5%
Force Repeatability (part to part)	±30%
Force Resolution	continuous (Analog)
Stand-off Resistance (unloaded)	>20MΩ



ALPMT1011 系列 压力分布

详细参数 / Detailed parameters

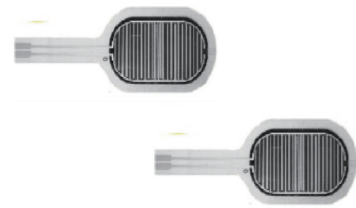


Pressure Sensitivity Range	10g~1,000g (0.1N~10N)
Force Repeatability (Single part)	2%
Force Repeatability (part to part)	10%
Force Resolution	continuous (Analog)
Stand-off Resistance (unloaded)	>20MΩ



ALPF01A-A09 系列 压阻

详细参数 / Detailed parameters



Force Sensitivity Range	0.3 bar~10 bar
Force Resolution	continuous (Analog)
Stand-off Resistance (unloaded)	>20MΩ
Force Repeatability (Single part)	2%
Force Repeatability (part to part)	10% (Single batch)


ALPF01A-A12 系列 压阻

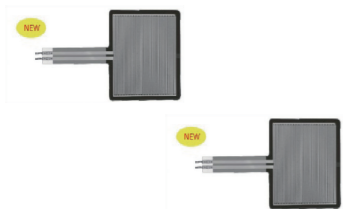
详细参数 / Detailed parameters



Force Sensitivity Range	30g~4,000g (0.3N~39N)
Force Resolution	continuous (Analog)
Stand-off Resistance (unloaded)	>20MΩ
Force Repeatability (Single part)	2%
Force Repeatability (part to part)	10%


ALPF02A-A03 系列 压阻

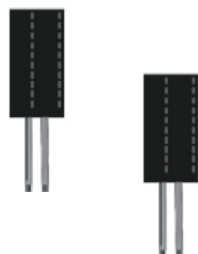
详细参数 / Detailed parameters



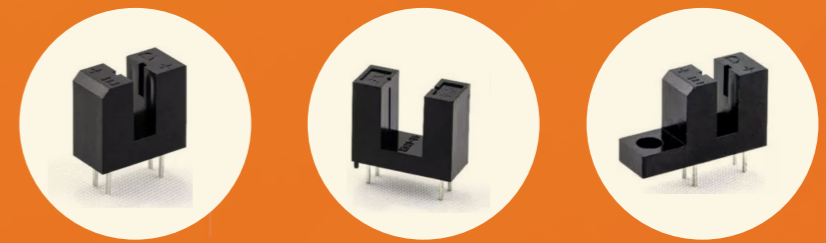
Force Sensitivity Range	100g~5,000g (0.98N~49N)
Force Resolution	continuous (Analog)
Stand-off Resistance (unloaded)	>20MΩ
Force Repeatability (Single part)	2%
Force Repeatability (part to part)	10% (Single batch)


ALPAA060 系列 压阻位置

详细参数 / Detailed parameters



Force Sensitivity Range	80g~1,000g (0.8N~9.8N)
Active Area	13.08mm*58.42mm
Force Resolution	continuous (Analog)
Stand-off Resistance (unloaded)	>20MΩ
Linearity,Independent	±3%



Photointerrupter Switch

光遮断开关

光遮断开关 也称传输型 光传感器，也可叫电 光电开关，即在一个封装内将发光元件和测光元件面对面排列，通过探测其间是否有物体遮住光线来实现检测功能。发光元件使用的是输出高、寿命长的 GaAs 红外发光二极管。

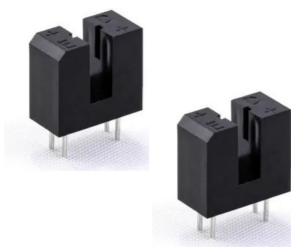
The optical cut-off switch is also known as the transmission-type optical sensor, or the electro-optic switch, that is, the light-emitting elements and light-measuring elements are arranged face to face in a package, and the detection function is realized by detecting whether there is an object blocking the light between them. The light emitting element uses GaAs infrared light emitting diodes with high output and long service life.



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OQPI010100 系列 槽宽3.1mm

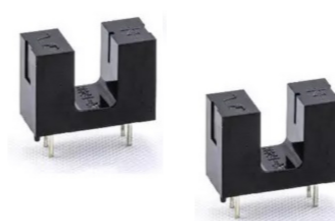
详细参数 / Detailed parameters



Item	Symbol	Rating	Unit
Power Dissipation	Pd	75	mW
Reverse Voltage	VR	5	V
Forward Current	IF	30	mA
Peak Forward Current (*1) Pulse Width \leq 100 μ s, Duty \leq 1%	IFP	0.1	A


OQPI010500 系列 槽宽5.0mm 透射式红外线

详细参数 / Detailed parameters



Item	Symbol	Rating	Unit
Power Dissipation	Pd	75	mW
Reverse Voltage	VR	5	V
Forward Current	IF	50	mA
Peak Forward Current	IFP	1	A


OQPI010200 系列 槽宽5.2mm 槽型

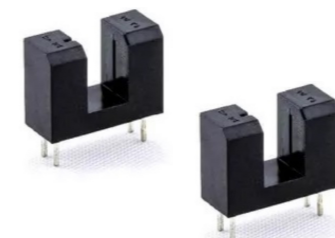
详细参数 / Detailed parameters



Item	Symbol	Rating	Unit
Power Dissipation	Pd	75	mW
Reverse Voltage	VR	5	V
Forward Current	IF	50	mA
Peak Forward Current	IFP	1	A


OQPI010600 系列 槽宽5.0mm 无耳红外线

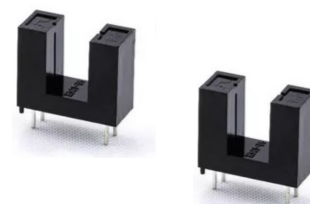
详细参数 / Detailed parameters



Item	Symbol	Rating	Unit
Power Dissipation	Pd	75	mW
Reverse Voltage	VR	5	V
Forward Current	IF	50	mA
Peak Forward Current	IFP	1	A


OQPI010300 系列 槽宽6.0mm 透射式

详细参数 / Detailed parameters



Item	Symbol	Rating	Unit
Power Dissipation	Pd	75	mW
Reverse Voltage	VR	5	V
Forward Current	IF	50	mA
Peak Forward Current	IFP	1	A


OQPI020100 系列 槽宽3.1mm 红外线

详细参数 / Detailed parameters



Item	Symbol	Rating	Unit
Power Dissipation	Pd	75	mW
Reverse Voltage	VR	5	V
Forward Current	IF	30	mA
Peak Forward Current	IFP	0.1	A


OQPI010400 系列 槽宽15.0mm

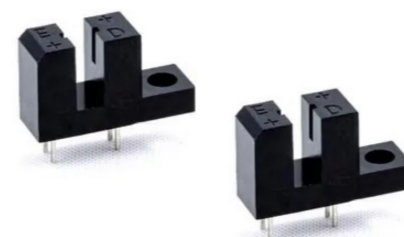
详细参数 / Detailed parameters



Item	Symbol	Rating	Unit
Power Dissipation	Pd	75	mW
Reverse Voltage	VR	5	V
Forward Current	IF	50	mA
Peak Forward Current	IFP	1	A


OQPI030100 系列 槽宽3.1mm 红外线

详细参数 / Detailed parameters



Item	Symbol	Rating	Unit
Power Dissipation	Pd	75	mW
Reverse Voltage	VR	5	V
Forward Current	IF	30	mA
Peak Forward Current	IFP	0.1	A





Other Accessories

其他配件

各配件种类样式齐全，都可以搭配不同的铜头尺寸并依设计端的需求来选用。

Various types and styles of accessories can be matched with different copper head sizes and selected according to the requirements of the design end.

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RK 系列

RK series



RK 系列 其他配件 产品特点

RK series Other accessories Product Features

各式高度、颜色、以及外型样式的帽盖，可以依照客户需求进行定制生产、或特制开模生产。依现有模具生产，可以节省客户开发模具的费用以及时程。

Cap covers of various heights, colors and shapes can be customized or specially molded according to customer requirements. According to the existing mold production, customers can save the cost and time of developing the mold.



