



冈本电子(香港)国际有限公司  
GNBER ELECTRONIC(H.K)INT'L CO.,LTD.

浙江冈本电子有限公司  
ZHEJIANG GNBER ELECTRONIC CO.,LTD.

[Http://www.gnber.com](http://www.gnber.com)  
[Http://www.gnber-switch.com](http://www.gnber-switch.com)

代理商

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冈本·工控开关

Gnber Industrial Switch



冈本产品畅销世界各地，深受客户信赖 Gnber Switch has good faith in customers and sell well all over the world



GNBER  
Sensor

## 关于我们 About Us

冈本致力于工控·传感器研发、生产、销售为一体的专业厂家，主要产品有电感式接近传感器、电容式接近传感器、光电传感器。传感器就相当于人的感觉系统，通过其捕捉到的各种信息，反馈到主控制系统，从而达到自动控制的目的，产品广泛应用于机械工业的各类机床，各种生产机械设备和自动化流水线，尤其是高科技的数控机床机电一体化设备，同时在化工、石油、轻工业、纺织、食品、印刷、冶金、矿山、船舶、电力、仪器等自动化检测计数，测速，保护和位置检测，控制之用，为提高我国的自动化水平而发挥巨大的作用。

GNBER is a professional manufacturer specializing in the research and development, production, sales of industrial control and sensor, the main products are inductive proximity transducer, capacitive proximity sensors and photo sensors. The sensor is equivalent to human sensory system, through the captured various information feedbacking to the main control system, it can realize automatic control. The products are widely used in various types of machine tools in the machine industry, all kinds of production machinery and equipment and automation assembly line, especially the high-tech mechanical-electrical integration equipments at numerical control machine, and also used in automatic detection and counting, speed measurement, protection and position detection, control of chemical, petroleum, light industry, textiles, food, printing, metallurgy, mining, shipping, power, equipment, etc., which play a huge role for improving the level of automation in our country.

冈本始终坚持质量第一、价格合理、交货及时、服务周到的原则，不但为客户提供常规型号产品，也可以根据客户的具体需求设计开发新产品，及时为客户提供全面的产品服务，最大限度地满足用户的需要，为客户创造长期的价值和潜在的增长。

GNBER always adhere to the principle of quality first, reasonable price, timely delivery, and attentive service. We not only provide customers with conventional models products, but also design and develop new products according to customer's specific requirements in order to provide comprehensive product service, satisfy the requirements of the customers to maximum, and create long-term value and potential growth for customers.

品质铸造品牌是冈本人的发展宗旨，不断追求更高的品质，更完善的服务，期盼与您真诚合作，把中国自动化水平推向新的高度。

The purpose of the development of the GNBER is quality casting brand, we will continue to pursue higher quality, more perfect service, looking forward to the cooperation with you sincerely, to make China's automation level to a new height.





## 先进的设备，规模化的生产

The superior equipment, Scale production



### 一流的生产设备

先进的生产工艺是制造高质量产品的唯一保证

冈本人视产品质量为企业的生命

在这一宗旨下

冈本电子获得一次又一次的成功

The superior production equipment

The advanced production technique is the only guarantee for manufacturing high-quality products

GNBER people regard product quality as the life of enterprise.

Under this tenet

GNBER electronics achieved the successes smoothly time after time

## 产品索引 Product Content



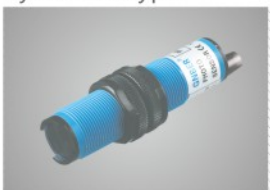
P02-P10  
圆柱形电感式接近传感器  
Inductive Proximity Sensor  
Cylindrical type



P11-P16  
方形电感式接近传感器  
Inductive Proximity Sensor  
Rectangular type



P17-P19  
圆柱形电容式接近传感器  
Capacitive Proximity Sensor



P21-P23  
圆柱形光电式传感器  
Cylindrical Photoelectric Sensor



P24-P25  
方形光电式传感器  
Rectangular Photoelectric Sensor



P26-P27  
小型光电式传感器  
Compact Photoelectric Sensor



P28-P34  
微型凹槽型光电传感器  
U-type Micro Photoelectric  
sensor



P35  
小型激光传感器  
Cylindrical laser Sensor



P36-P38  
激光传感器  
Cylindrical laser Sensor



P39  
光纤  
Fiber



P40  
简易光纤放大器  
General Fiber-optic Sensor



P41-P42  
数显光纤放大器  
Display Fiber Sensor



P43-P47  
通用型区域光栅  
General Purpose Light Curtain



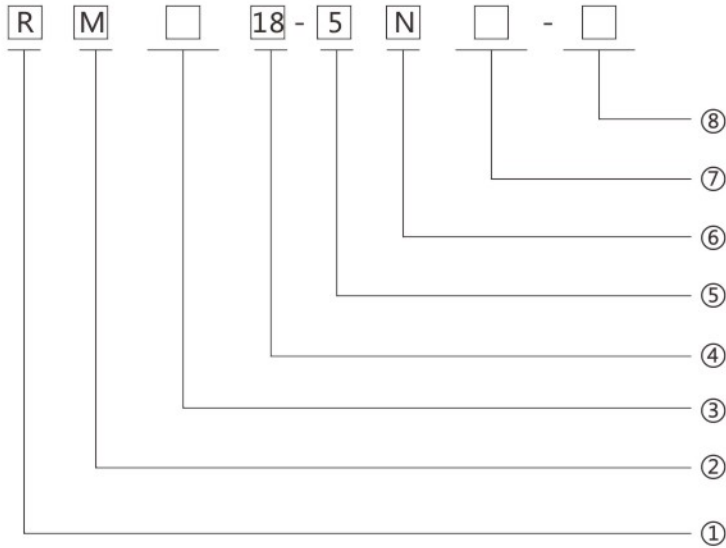
P48-P60  
磁性开关  
Magnetic sensor



P61-P66  
传感器分线盒  
sensor junction box

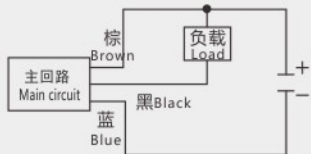
# 接近传感器型号 Model Designations

接近传感器型号描述规则  
Proximity sensor naming rules

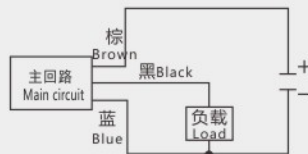


- |   |  |
|---|--|
| <p>1. R: 公司代码 Company code<br/>R3: Ø3 无螺纹 No thread R4: Ø4 无螺纹 No thread</p> <p>2. M: 电感式 M: Inductive type<br/>C: 电容式 C: Capacitive type</p> <p>3. 无表示金属铜壳 N/A: Nickel-plated brass Housing<br/>S、M、N、H、L<br/>表示不同外形塑料壳 Plastic housing</p> <p>4. 尺寸代号 Size code<br/>数字: 外壳尺寸 Housing diameter<br/>如18: M18 eg: 18: M18</p> <p>5. 检测距离 sensing range<br/>5: 5mm<br/>10: 10mm</p> | <p>6. 输出方式 Switching Output<br/>N: NPN<br/>P: PNP<br/>C: 直流2线 DC 2 Wires<br/>S: 交流2线 AC 2 Wires</p> <p>7. 输出状态 Output function<br/>无: 表示常开 N/A: NO<br/>B: 表示常闭 B: NC<br/>C: 表示一开一闭 C: NO+NC</p> <p>8. 连接形式 Connection type<br/>无: 表示2米引线式 N/A: 2M Cable<br/>G: 航空插件 G: Male Connector<br/>G1: 表示带30CM延长线的航空插件<br/>G1: Male connector with 30cm Cable</p> |
|---|--|

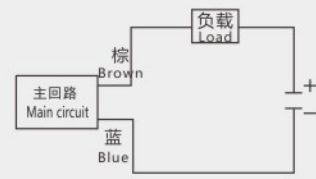
## 线路示意图 Circuit Diagram



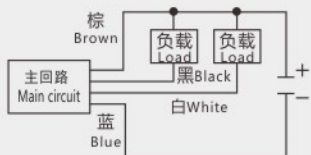
DC3线型的NPN输出  
DC 3 wires NPN output sensor



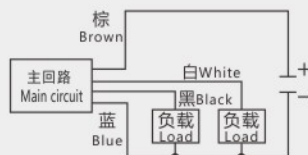
DC3线型的PNP输出  
DC 3 wires PNP output sensor



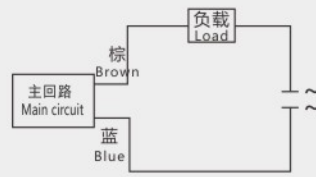
DC2线型的输出  
DC 2 wires output sensor



DC4线型的NPN 常开+常闭 输出  
DC 4 wires NPN NO+NC output sensor



DC4线型的PNP 常开+常闭 输出  
DC 4 wires PNP NO+NC output sensor



AC2线型的输出  
AC 2 wires output sensor

# 圆柱形电感式接近传感器 Inductive Proximity Sensor Cylindrical type

10-30VDC 直流3线  
10-30VDC DC 3 Wires



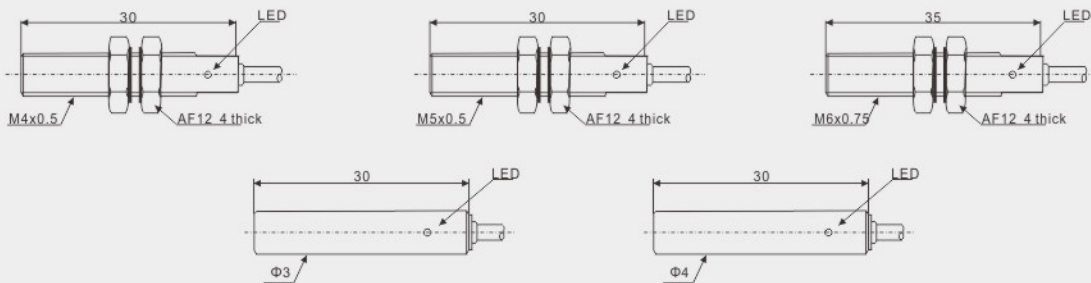
安装方式 Installation type	● 埋入 Flushed	● 埋入 Flushed	● 埋入 Flushed	● 埋入 Flushed	● 埋入 Flushed	
检测距离 sensing range	0.6mm ±10%	0.8mm±10%	0.8mm±10%	1mm ±10%	1mm±10%	
输出方式 Output	NPN NO	R3-0.6N (Ø3)	RM4-0.8N	R4-0.8N (Ø4)	RM5-1N	RM6-1N
	NPN NC	R3-0.6NB(Ø3)	RM4-0.8NB	R4-0.8NB(Ø4)	RM5-1NB	RM6-1NB
输出方式 Output	PNP NO	R3-0.6P(Ø3)	RM4-0.8P	R4-0.8P(Ø4)	RM5-1P	RM6-1P
	PNP NC	R3-0.6PB(Ø3)	RM4-0.8PB	R4-0.8PB(Ø4)	RM5-1PB	RM6-1PB

## 额定规格/性能 Specifications

电源电压 Supply voltage	10...30VDC			
负载电流 Load current	< 150mA			
压降 Voltage drop	< 2.5V			
消耗电流 Current consumption	< 10mA			
重复精度 Repeatability precision	< 3%			
开关频率 Frequency	1000Hz	1000Hz	200Hz	200Hz
输出指示 Output indication	红色 LED Red LED			
保护功能 Protection	短路保护Short-Circuit Protection & 极性保护Reverse Polarity Protection			
绝缘耐压 Withstand voltage	500V/AC 50/60Hz 60s			
环境温度 Ambient operating temperature	-25...+70°C			
环境湿度 Ambient humidity	35...95%			
外壳材料 Housing material	镍铜合金 Nickel-plated brass			
连接方式 Connection type type	2m PVC 电缆 2M Cable			
保护结构 Enclosure rating	IP65			
产品认证 Certificate	CE			

## 产品外观尺寸 Drawing

单位Unit:mm



# 圆柱形电感式接近传感器 Inductive Proximity Sensor Cylindrical type

10-30VDC 直流3线  
10-30VDC DC 3 Wires



圆柱形电感式接近传感器  
Inductive Proximity Sensor Cylindrical type

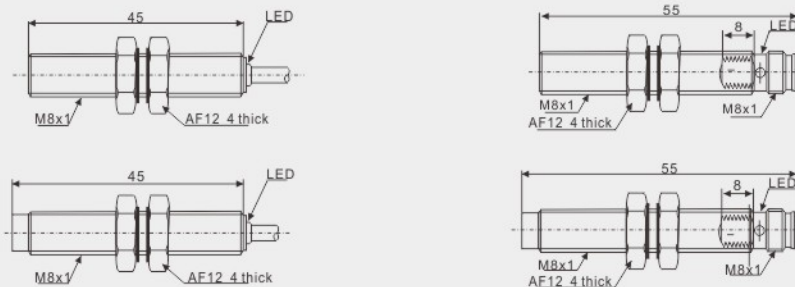
安装方式 Installation type	● 埋入 Flushed	● 非埋 Non-flushed	● 埋入 Flushed	● 非埋 Non-flushed
检测距离 sensing range	1.5mm ±10%	2mm±10%	1.5mm ±10%	2mm±10%
输出方式 Output	NPN NO	RM8-1.5N	RM8-2N	RM8-1.5N-G
	NPN NC	RM8-1.5NB	RM8-2NB	RM8-1.5NB-G
输出方式 Output	PNP NO	RM8-1.5P	RM8-2P	RM8-1.5P-G
	PNP NC	RM8-1.5PB	RM8-2PB	RM8-1.5PB-G

## 额定规格/性能 Specifications

电源电压 Supply voltage	10...30VDC	
负载电流 Load current	< 150mA	
压降 Voltage drop	< 2.5V	
消耗电流 Current consumption	< 10mA	
重复精度 Repeatability precision	< 3%	
开关频率 Frequency	500Hz	
输出指示 Output indication	红色 LED Red LED	
保护功能 Protection	短路保护 Short-Circuit Protection & 极性保护 Reverse Polarity Protection	
绝缘耐压 Withstand voltage	500V/AC 50/60Hz 60s	
环境温度 Ambient operating temperature	-25...+70°C	
环境湿度 Ambient humidity	35...95%	
外壳材料 Housing material	镍铜合金 Nickel-plated brass	
连接方式 Connection type	2m PVC 电缆 2M Cable	M8 连接器 M8 Male Connector
保护结构 Enclosure rating	IP65	
产品认证 Certificate	CE	

## 产品外观尺寸 Drawing

单位 Unit:mm



# 圆柱形电感式接近传感器 Inductive Proximity Sensor Cylindrical type

10-30VDC 直流3线  
10-30VDC DC 3 Wires



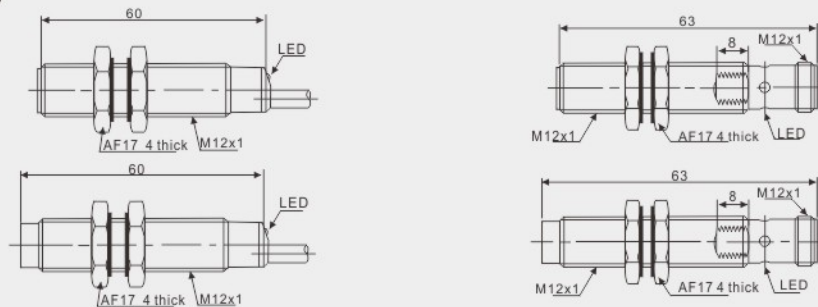
安装方式 Installation type		● 埋入 Flushed	○ 非埋 Non-flushed	● 埋入 Flushed	○ 非埋 Non-flushed
检测距离 sensing range		2mm ±10%	4mm ±10%	2mm ±10%	4mm ±10%
输出方式 Output	NPN NO	RM12-2N	RM12-4N	RM12-2N-G	RM12-4N-G
	NPN NC	RM12-2NB	RM12-4NB	RM12-2NB-G	RM12-4NB-G
输出方式 Output	PNP NO	RM12-2P	RM12-4P	RM12-2P-G	RM12-4P-G
	PNP NC	RM12-2PB	RM12-4PB	RM12-2PB-G	RM12-4PB-G

## 额定规格/性能 Specifications

电源电压 Supply voltage	10...30VDC	
负载电流 Load current	< 200mA	
压降 Voltage drop	< 2.5V	
消耗电流 Current consumption	< 15mA	
重复精度 Repeatability precision	< 3%	
开关频率 Frequency	500Hz	
输出指示 Output indication	红色 LED Red LED	
保护功能 Protection	短路保护 Short-Circuit Protection & 极性保护 Reverse Polarity Protection	
绝缘耐压 Withstand voltage	1000V/AC 50/60Hz 60s	
环境温度 Ambient operating temperature	-25...+70°C	
环境湿度 Ambient humidity	35...95%	
外壳材料 Housing material	镍铜合金 Nickel-plated brass	
连接方式 Connection type	2m PVC 电缆 2M Cable	M12 连接器 M12 Male Connector
保护结构 Degree of protection	IP65	
产品认证 Certificate	CE	

## 产品外观尺寸 Drawing

单位 Unit: mm



# 圆柱形电感式接近传感器 Inductive Proximity Sensor Cylindrical type

10-30VDC 直流3线  
10-30VDC DC 3 Wires



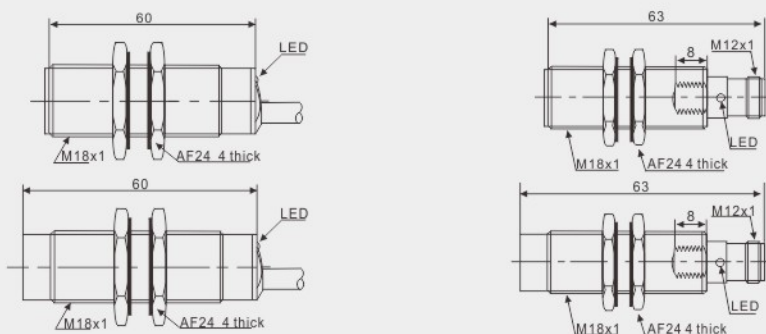
圆柱形电感式接近传感器  
Inductive Proximity Sensor Cylindrical type

安装方式 Installation type	● 埋入 Flushed	○ 非埋 Non-flushed	● 埋入 Flushed	○ 非埋 Non-flushed
检测距离 sensing range	5mm±10%	8mm±10%	5mm±10%	8mm±10%
输出方式 Output	NPN NO	RM18-5N	RM18-8N	RM18-5N-G
	NPN NC	RM18-5NB	RM18-8NB	RM18-5NB-G
输出方式 Output	PNP NO	RM18-5P	RM18-8P	RM18-5P-G
	PNP NC	RM18-5PB	RM18-8PB	RM18-5PB-G

## 额定规格/性能 Specifications

电源电压 Supply voltage	10...30VDC	
负载电流 Load current	< 200mA	
压降 Voltage drop	< 2.5V	
消耗电流 Current consumption	< 15mA	
重复精度 Repeatability precision	< 3%	
开关频率 Frequency	500Hz	
输出指示 Output indication	红色 LED Red LED	
保护功能 Protection	短路保护 Short-Circuit Protection & 极性保护 Reverse Polarity Protection	
绝缘耐压 Withstand voltage	1000V/AC 50/60Hz 60s	
环境温度 Ambient operating temperature	-25...+70°C	
环境湿度 Ambient humidity	35...95%	
外壳材料 Housing material	镍铜合金 Nickel-plated brass	
连接方式 Connection type	2m PVC 电缆 2M Cable	M12 连接器 M12 Male Connector
保护结构 Enclosure rating	IP65	
产品认证 Certificate	CE	

## 产品外观尺寸 Drawing



单位 Unit:mm

# 圆柱形电感式接近传感器 Inductive Proximity Sensor Cylindrical type

10-30VDC 直流3线  
10-30VDC DC 3 Wires



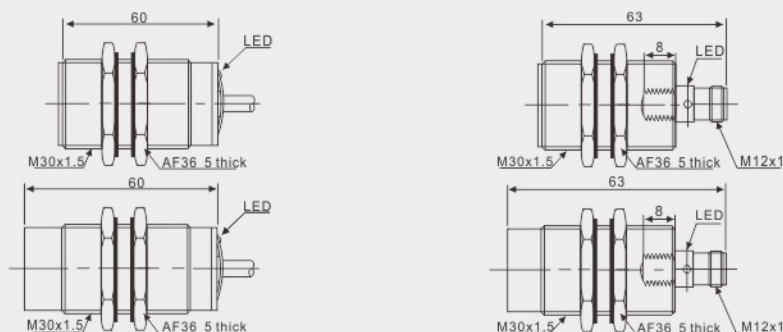
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检测距离 sensing range	10mm±10%	15mm±10%	10mm±10%	15mm±10%
输出方式 Output	NPN NO	RM30-10N	RM30-15N	RM30-10N-G
	NPN NC	RM30-10NB	RM30-15NB	RM30-10NB-G
输出方式 Output	PNP NO	RM30-10P	RM30-15P	RM30-10P-G
	PNP NC	RM30-10PB	RM30-15PB	RM30-10PB-G

圆柱形电感式接近传感器  
Inductive Proximity Sensor Cylindrical type

## 额定规格/性能 Specifications

电源电压 Supply voltage	10...30VDC	
负载电流 Load current	< 200mA	
压降 Voltage drop	< 2.5V	
消耗电流 Current consumption	< 15mA	
重复精度 Repeatability precision	< 3%	
开关频率 Frequency	500Hz	
输出指示 Output indication	红色 LED Red LED	
保护功能 Protection	短路保护 Short-Circuit Protection & 极性保护 Reverse Polarity Protection	
绝缘耐压 Withstand voltage	1000V/AC 50/60Hz 60s	
环境温度 Ambient operating temperature	-25...+70°C	
环境湿度 Ambient humidity	35...95%	
外壳材料 Housing material	镍铜合金 Nickel-plated brass	
连接方式 Connection type	2m PVC 电缆 2M Cable	M12 连接器 M12 Male Connector
保护结构 Enclosure rating	IP65	
产品认证 Certificate	CE	

## 产品外观尺寸 Drawing



# 圆柱形电感式接近传感器 Inductive Proximity Sensor Cylindrical type

10-30VDC 直流2线  
10-30VDC DC 2 Wires



圆柱形电感式接近传感器  
Inductive Proximity Sensor Cylindrical type

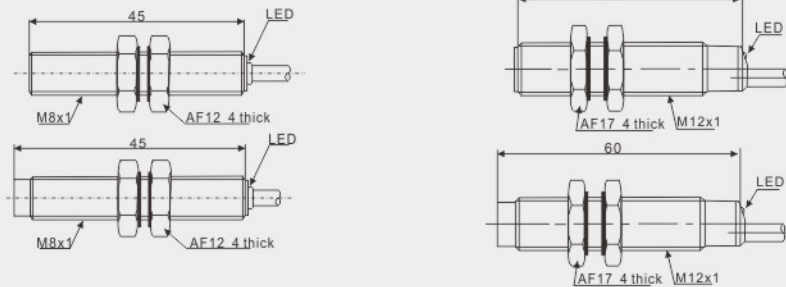
安装方式 Installation type	● 埋入 Flushed	● 非埋 Non-flushed	● 埋入 Flushed	● 非埋 Non-flushed
检测距离 sensing range	1.5mm±10%	2mm±10%	2mm±10%	4mm±10%
输出方式 Output	DC 2线 NO	RM8-1.5C	RM8-2C	RM12-2C
	DC 2线 NC	RM8-1.5CB	RM8-2CB	RM12-2CB
输出方式 Output				

## 额定规格/性能 Specifications

电源电压 Supply voltage	10...30VDC			
负载电流 Load current	< 100mA			
压降 Voltage drop	< 5V			
消耗电流 Current consumption	< 1mA			
重复精度 Repeatability precision	< 3%			
开关频率 Frequency	200Hz	250Hz	100Hz	150Hz
输出指示 Output indication	红色 LED Red LED			
保护功能 Protection	短路保护 Short-Circuit Protection & 极性保护 Reverse Polarity Protection			
绝缘耐压 Withstand voltage	500V/AC 50/60Hz 60s			
环境温度 Ambient operating temperature	-25...+70°C			
环境湿度 Ambient humidity	35...95%			
外壳材料 Housing material	镍铜合金 Nickel-plated brass			
连接方式 Connection type	2m PVC 电缆 2M Cable			
保护结构 Enclosure rating	IP65			
产品认证 Certificate	CE			

## 产品外观尺寸 Drawing

单位 Unit: mm



# 圆柱形电感式接近传感器 Inductive Proximity Sensor Cylindrical type

10-30VDC 直流2线  
10-30VDC DC 2 Wires



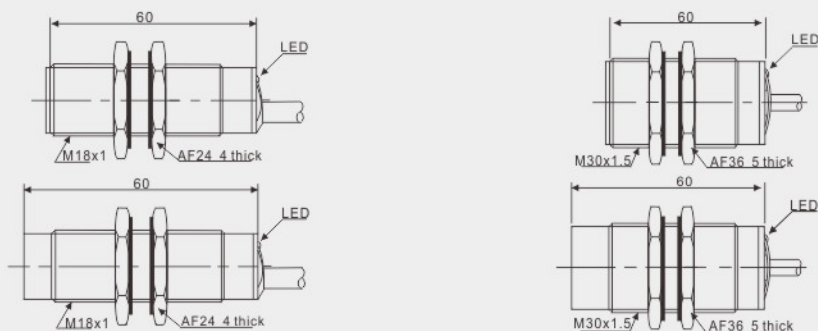
安装方式 Installation type	● 埋入 Flushed	● 非埋 Non-flushed	● 埋入 Flushed	● 非埋 Non-flushed
检测距离 sensing range	5mm±10%	8mm±10%	10mm±10%	15mm±10%
输出方式 Output	DC 2线 NO	RM18-5C	RM18-8C	RM30-10C
	DC 2线 NC	RM18-5CB	RM18-8CB	RM30-10CB
输出方式 Output	DC 2线 NO			
	DC 2线 NC			

圆柱形电感式接近传感器  
Inductive Proximity Sensor Cylindrical type

## 额定规格/性能 Specifications

电源电压 Supply voltage	10...30VDC			
负载电流 Load current	< 100mA			
压降 Voltage drop	< 6V			
消耗电流 Current consumption	< 1mA			
重复精度 Repeatability precision	< 3%			
开关频率 Frequency	100Hz	150Hz	100Hz	100Hz
输出指示 Output indication	红色 LED Red LED			
保护功能 Protection	短路保护 Short-Circuit Protection & 极性保护 Reverse Polarity Protection			
绝缘耐压 Withstand voltage	1000V/AC 50/60Hz 60s			
环境温度 Ambient operating temperature	-25...+70°C			
环境湿度 Ambient humidity	35...95%			
外壳材料 Housing material	镍铜合金 Nickel-plated brass			
连接方式 Connection type	2m PVC 电缆 2M Cable			
保护结构 Enclosure rating	IP65			
产品认证 Certificate	CE			

## 产品外观尺寸 Drawing



单位 Unit: mm

# 圆柱形电感式接近传感器 Inductive Proximity Sensor Cylindrical type

90-250VAC 交流2线  
90-250VAC AC 2 Wires



圆柱形电感式接近传感器  
Inductive Proximity Sensor Cylindrical type

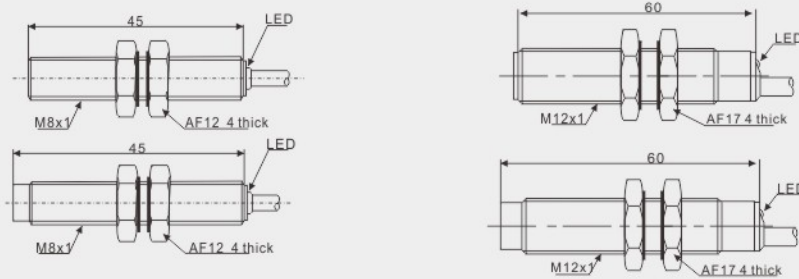
安装方式 Installation type	● 埋入 Flushed	● 非埋 Non-flushed	● 埋入 Flushed	● 非埋 Non-flushed
检测距离 sensing range	1.5mm±10%	2mm±10%	2mm±10%	4mm±10%
输出方式 Output	AC 2线 NO	RM8-1.5S	RM8-2S	RM12-2S
	AC 2线 NC	RM8-1.5SB	RM8-2SB	RM12-2SB
输出方式 Output				

## 额定规格/性能 Specifications

电源电压 Supply voltage	90...250VAC
负载电流 Load current	< 200mA
压降 Voltage drop	< 10V
消耗电流 Current consumption	< 3mA
重复精度 Repeatability precision	< 3%
开关频率 Frequency	20Hz
输出指示 Output indication	红色 LED Red LED
保护功能 Protection	...
绝缘耐压 Withstand voltage	2000V/AC 50/60Hz 60s
环境温度 Ambient operating temperature	-25...+70°C
环境湿度 Ambient humidity	35...95%
外壳材料 Housing material	镍铜合金 Nickel-plated brass
连接方式 Connection type	2m PVC 电缆 2M Cable
保护结构 Enclosure rating	IP65
产品认证 Certificate	CE

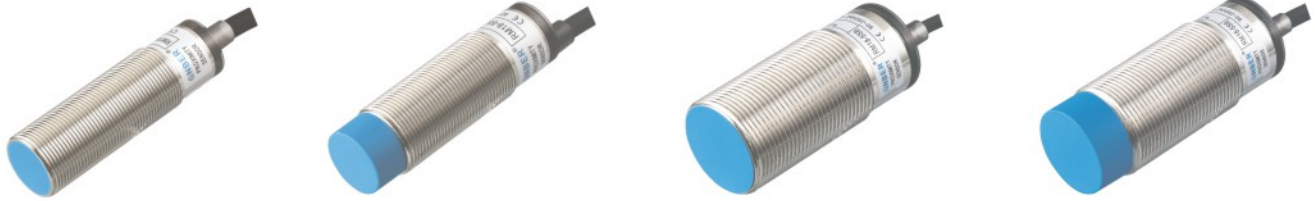
## 产品外观尺寸 Drawing

单位Unit:mm



# 圆柱形电感式接近传感器 Inductive Proximity Sensor Cylindrical type

90-250VAC 交流2线  
90-250VAC AC 2 Wires



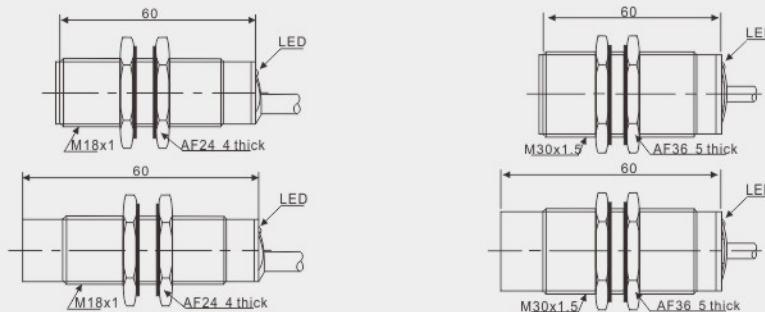
安装方式 Installation type	● 埋入 Flushed	○ 非埋 Non-flushed	● 埋入 Flushed	○ 非埋 Non-flushed
检测距离 sensing range	5mm±10%	8mm±10%	10mm±10%	15mm±10%
输出方式 Output	AC 2线 NO	RM18-5S	RM18-8S	RM30-10S
	AC 2线 NC	RM18-5SB	RM18-8SB	RM30-10SB
输出方式 Output				

## 额定规格/性能 Specifications

电源电压 Supply voltage	90...250VAC
负载电流 Load current	< 300mA
压降 Voltage drop	< 10V
消耗电流 current consumption	< 3mA
重复精度 Repeatability precision	< 3%
开关频率 Frequency	20Hz
输出指示 Output indication	红色 LED Red LED
保护功能 Protection	...
绝缘耐压 Withstand voltage	2000V/AC 50/60Hz 60s
环境温度 Ambient operating temperature	-25...+70°C
环境湿度 Ambient humidity	35...95%
外壳材料 Housing material	镍铜合金 Nickel-plated brass
连接方式 Connection type	2m PVC 电缆 2M Cable
保护结构 Enclosure rating	IP65
产品认证 certificate	CE

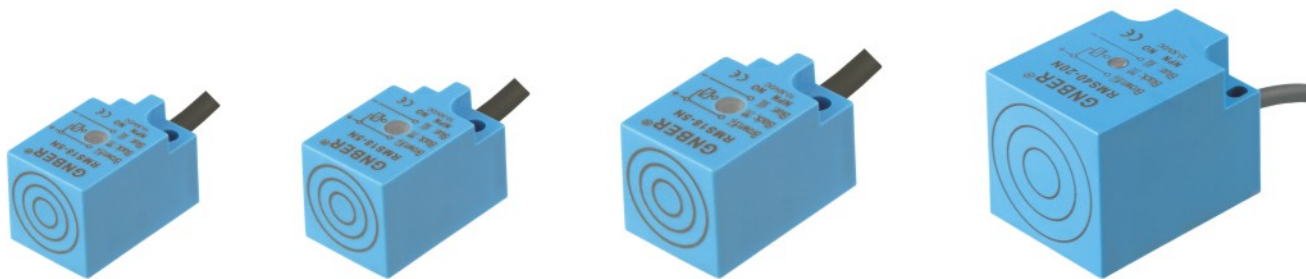
## 产品外观尺寸 Drawing

单位 Unit:mm



# 方形电感式接近传感器 Inductive Proximity Sensor Rectangular type

10-30VDC 直流3线  
10-30VDC DC 3 Wires



方形电感式接近传感器  
Inductive Proximity Sensor Rectangular type

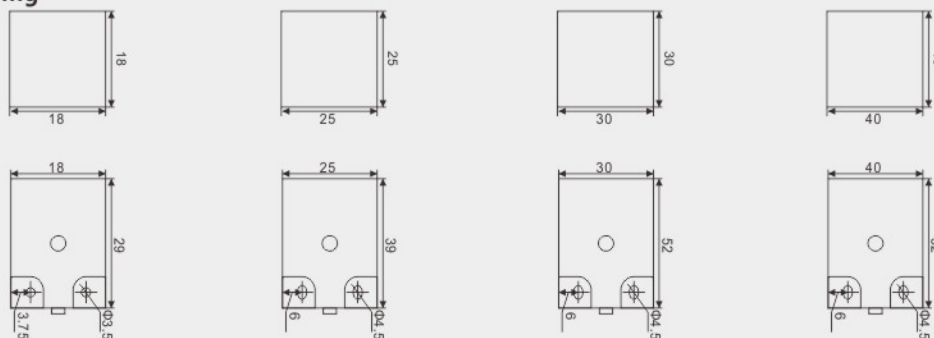
安装方式 Installation type		● 非埋 Non-flushed	● 非埋 Non-flushed	● 非埋 Non-flushed	● 非埋 Non-flushed
检测距离 sensing range		5mm±10%	10mm±10%	15mm±10%	20mm±10%
输出方式 Output	NPN NO	RMS18-5N	RMS25-10N	RMS30-15N	RMS40-20N
	NPN NC	RMS18-5NB	RMS25-10NB	RMS30-15NB	RMS40-20NB
输出方式 Output	PNP NO	RMS18-5P	RMS25-10P	RMS30-15P	RMS40-20P
	PNP NC	RMS18-5PB	RMS25-10PB	RMS30-15PB	RMS40-20PB

## 额定规格/性能 Specifications

电源电压 Supply voltage	10...30VDC
负载电流 Load current	< 200mA
压降 Voltage drop	< 2.5V
消耗电流 current consumption	< 10mA
重复精度 Repeatability precision	< 3%
开关频率 Frequency	500Hz
输出指示 Output indication	红色 LED Red LED
保护功能 Protection	短路保护 Short-Circuit Protection & 极性保护 Reverse Polarity Protection
绝缘耐压 Withstand voltage	1000V/AC 50/60Hz 60s
环境温度 Ambient operating temperature	-25...+70°C
环境湿度 Ambient humidity	35...95%
外壳材料 Housing material	ABS
连接方式 Connection type	2m PVC 电缆 2M Cable
保护结构 Enclosure rating	IP65
产品认证 certificate	CE

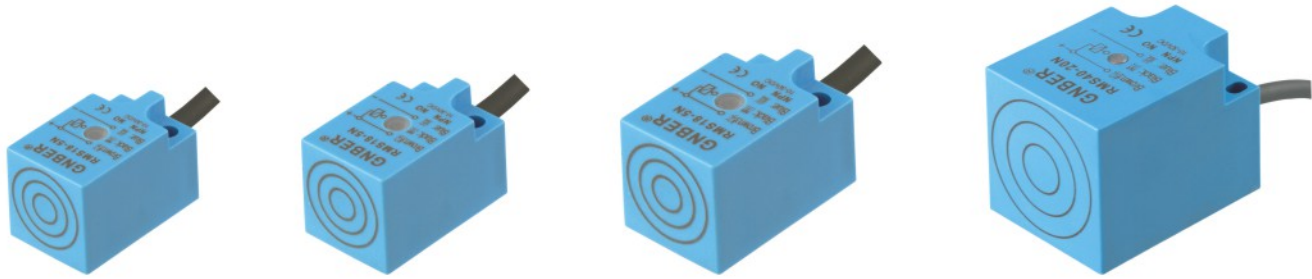
## 产品外观尺寸 Drawing

单位 Unit:mm



# 方形电感式接近传感器 Inductive Proximity Sensor Rectangular type

10-30VDC 直流2线  
10-30VDC DC 2 Wires

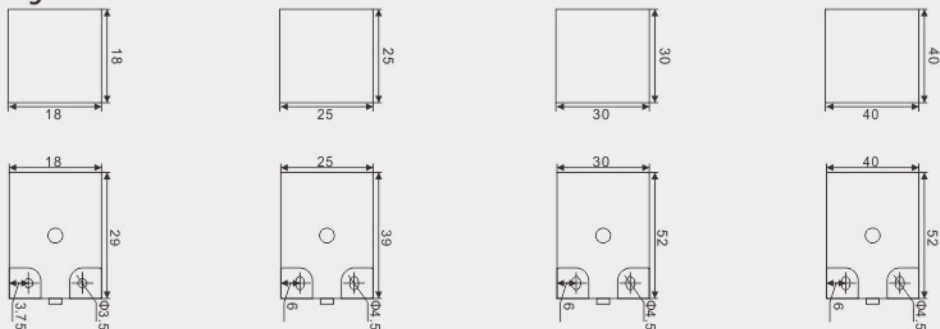


安装方式 Installation type	● 非埋 Non-flushed	● 非埋 Non-flushed	● 非埋 Non-flushed	● 非埋 Non-flushed	
检测距离 sensing range	5mm±10%	10mm±10%	15mm±10%	20mm±10%	
输出方式 Output	DC 2线 NO	RMS18-5C	RMS25-10C	RMS30-15C	RMS40-20C
	DC 2线 NC	RMS18-5CB	RMS25-10CB	RMS30-15CB	RMS40-20CB
输出方式 Output					

## 额定规格/性能 Specifications

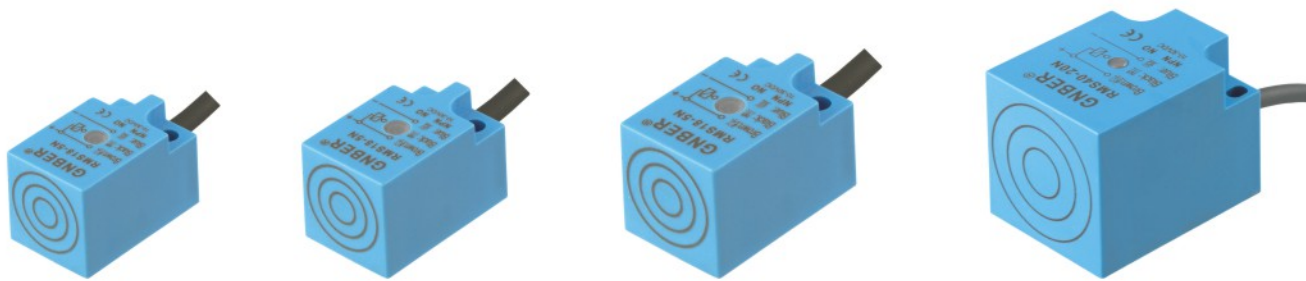
电源电压 Supply voltage	10...30VDC
负载电流 Load current	<100mA
压降 Voltage drop	<2.5V
消耗电流 current consumption	<1mA
重复精度 Repeatability precision	<3%
开关频率 Frequency	100Hz
输出指示 Output indication	红色 LED Red LED
保护功能 Protection	短路保护 Short-Circuit Protection & 极性保护 Reverse Polarity Protection
绝缘耐压 Withstand voltage	1000V/AC 50/60Hz 60s
环境温度 Ambient operating temperature	-25...+70°C
环境湿度 Ambient humidity	35...95%
外壳材料 Housing material	ABS
连接方式 Connection type	2m PVC 电缆 2M Cable
保护结构 Enclosure rating	IP65
产品认证 certificate	CE

## 产品外观尺寸 Drawing



# 方形电感式接近传感器 Inductive Proximity Sensor Rectangular type

90-250VAC 交流2线  
90-250VAC AC 2 Wires



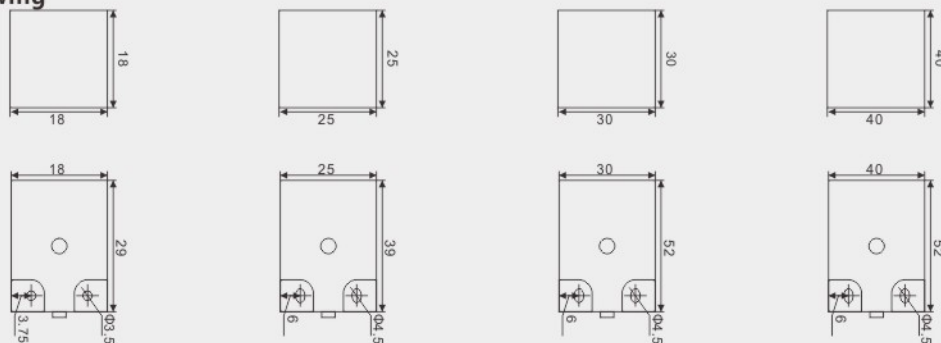
方形电感式接近传感器  
Inductive Proximity Sensor Rectangular type

安装方式 Installation type	● 非埋 Non-flushed	● 非埋 Non-flushed	● 非埋 Non-flushed	● 非埋 Non-flushed	
检测距离 sensing range	5mm±10%	10mm±10%	15mm±10%	20mm±10%	
输出方式 Output	AC 2线 NO	RMS18-5S	RMS25-10S	RMS30-15S	RMS40-20S
	AC 2线 NC	RMS18-5SB	RMS25-10SB	RMS30-15SB	RMS40-20SB
输出方式 Output					

## 额定规格/性能 Specifications

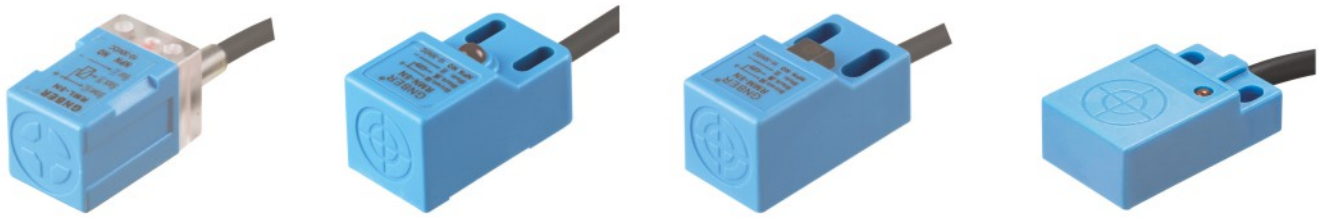
电源电压 Supply voltage	90...250VAC
负载电流 Load current	< 300mA
压降 Voltage drop	< 10V
消耗电流 current consumption	< 3mA
重复精度 Repeatability precision	< 3%
开关频率 Frequency	20Hz
输出指示 Output indication	红色 LED Red LED
保护功能 Protection	...
绝缘耐压 Withstand voltage	2000V/AC 50/60Hz 60s
环境温度 Ambient operating temperature	-25...+70°C
环境湿度 Ambient humidity	35...95%
外壳材料 Housing material	ABS
连接方式 Connection type	2m PVC 电缆 2M Cable
保护结构 Enclosure rating	IP65
产品认证 certificate	CE

## 产品外观尺寸 Drawing



# 方形电感式接近传感器 Inductive Proximity Sensor Rectangular type

10-30VDC 直流3线  
10-30VDC DC 3 Wires



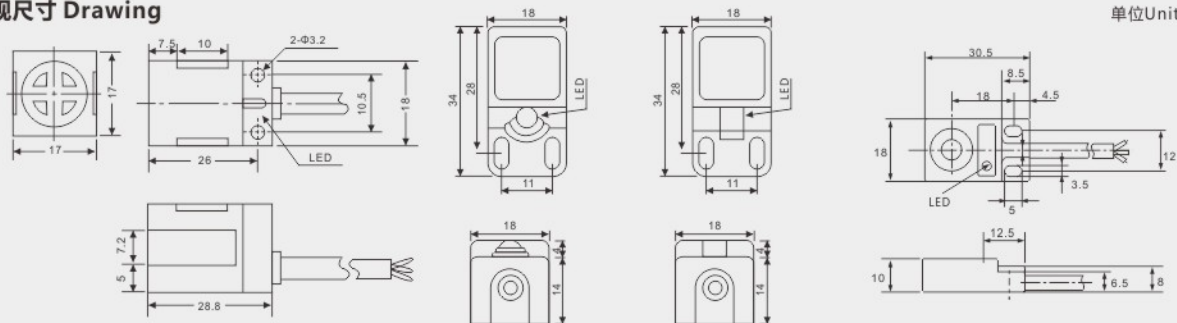
安装方式 Installation type	● 非埋 Non-flushed	● 非埋 Non-flushed	● 非埋 Non-flushed	● 非埋 Non-flushed
检测距离 sensing range	5mm±10%	5mm±10%	5mm±10%	5mm±10%
输出方式 Output	NPN NO	RML-5N	RMM-5N	RMN-5N
	NPN NC	RML-5NB	RMM-5NB	RMN-5NB
输出方式 Output	PNP NO	RML-5P	RMM-5P	RMN-5P
	PNP NC	RML-5PB	RMM-5PB	RMN-5PB

## 额定规格/性能 Specifications

电源电压 Supply voltage	10...30VDC
负载电流 Load current	< 200mA
压降 Voltage drop	< 2.5V
消耗电流 current consumption	< 10mA
重复精度 Repeatability precision	< 3%
开关频率 Frequency	500Hz
输出指示 Output indication	红色 LED Red LED
保护功能 Protection	短路保护 Short-Circuit Protection & 极性保护 Reverse Polarity Protection
绝缘耐压 Withstand voltage	1000V/AC 50/60Hz 60s
环境温度 Ambient operating temperature	-25...+70°C
环境湿度 Ambient humidity	35...95%
外壳材料 Housing material	ABS
连接方式 Connection type	2m PVC 电缆 2M Cable
保护结构 Enclosure rating	IP65
产品认证 certificate	CE

## 产品外观尺寸 Drawing

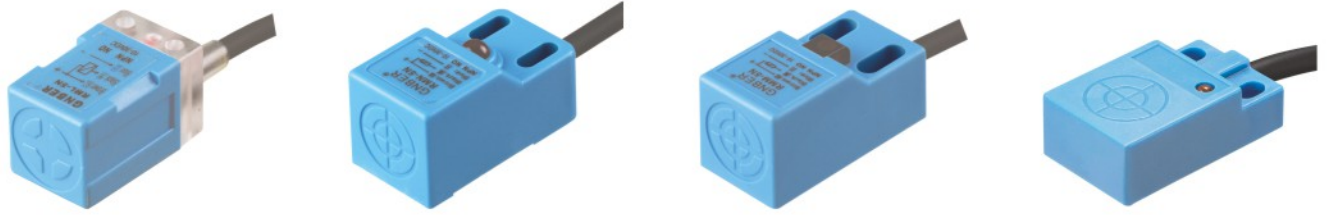
单位 Unit:mm



方形电感式接近传感器  
Inductive Proximity Sensor Rectangular type

# 方形电感式接近传感器 Inductive Proximity Sensor Rectangular type

10-30VDC 直流2线  
10-30VDC DC 2 Wires



方形电感式接近传感器  
Inductive Proximity Sensor Rectangular type

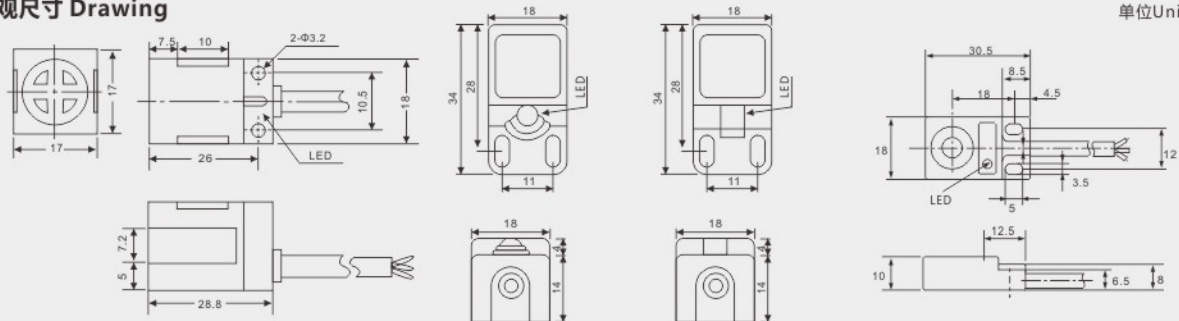
安装方式 Installation type	非埋 Non-flushed	非埋 Non-flushed	非埋 Non-flushed	非埋 Non-flushed
检测距离 sensing range	5mm±10%	5mm±10%	5mm±10%	5mm±10%
输出方式 Output	DC 2线 NO	RML-5C	RMM-5C	RMN-5C
	DC 2线 NC	RML-5CB	RMM-5CB	RMN-5CB
输出方式 Output				

## 额定规格/性能 Specifications

电源电压 Supply voltage	10...30VDC
负载电流 Load current	< 100mA
压降 Voltage drop	< 3V
消耗电流 current consumption	< 1mA
重复精度 Repeatability precision	< 3%
开关频率 Frequency	150Hz
输出指示 Output indication	红色 LED Red LED
保护功能 Protection	短路保护 Short-Circuit Protection & 极性保护 Reverse Polarity Protection
绝缘耐压 Withstand voltage	1000V/AC 50/60Hz 60s
环境温度 Ambient operating temperature	-25...+70°C
环境湿度 Ambient humidity	35...95%
外壳材料 Housing material	ABS
连接方式 Connection type	2m PVC 电缆 2M Cable
保护结构 Enclosure rating	IP65
产品认证 certificate	CE

## 产品外观尺寸 Drawing

单位 Unit:mm



# 方形电感式接近传感器 Inductive Proximity Sensor Rectangular type

90-250VAC 交流2线  
90-250VAC AC 2 Wires

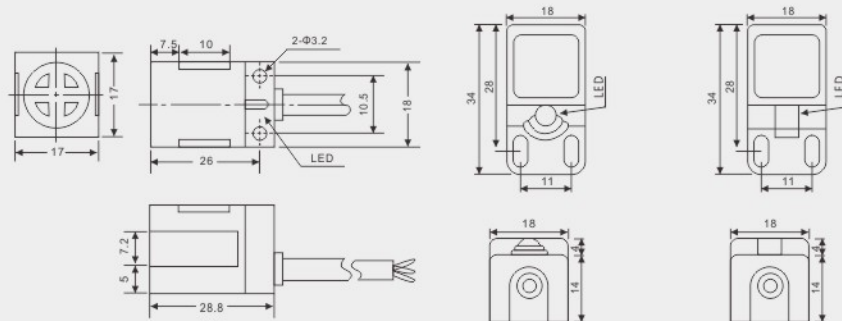


安装方式 Installation type		● 非埋 Non-flushed	● 非埋 Non-flushed	● 非埋 Non-flushed
检测距离 sensing range		5mm±10%	5mm±10%	5mm±10%
输出方式 Output	AC 2线 NO	RML-5S	RMM-5S	RMN-5S
	AC 2线 NC	RML-5SB	RMM-5SB	RMN-5SB
输出方式 Output				

## 额定规格/性能 Specifications

电源电压 Supply voltage	90...250VAC
负载电流 Load current	< 300mA
压降 Voltage drop	< 10V
消耗电流 current consumption	< 3mA
重复精度 Repeatability precision	< 3%
开关频率 Frequency	20Hz
输出指示 Output indication	红色 LED Red LED
保护功能 Protection	...
绝缘耐压 Withstand voltage	2000V/AC 50/60Hz 60s
环境温度 Ambient operating temperature	-25...+70°C
环境湿度 Ambient humidity	35...95%
外壳材料 Housing material	ABS
连接方式 Connection type	2m PVC 电缆 2M Cable
保护结构 Enclosure rating	IP65
产品认证 certificate	CE

## 产品外观尺寸 Drawing



单位Unit:mm

方形电感式接近传感器  
Inductive Proximity Sensor Rectangular type

# 圆柱形电容式接近传感器 Capacitive Proximity Sensor

10-30VDC 直流3线  
10-30VDC DC 3 Wires



圆柱形电容式接近传感器  
Capacitive Proximity Sensor

安装方式 Installation type	● 埋入 Flushed	○ 非埋 Non-flushed	● 埋入 Flushed	○ 非埋 Non-flushed
检测距离 sensing range	5mm±20%	8mm±20%	5mm±20%	8mm±20%
输出方式 Output	NPN NO	RC18-5N	RC18-8N	RC18-5N-G
	NPN NC	RC18-5NB	RC18-8NB	RC18-5NB-G
输出方式 Output	PNP NO	RC18-5P	RC18-8P	RC18-5P-G
	PNP NC	RC18-5PB	RC18-8PB	RC18-5PB-G

## 额定规格/性能 Specifications

电源电压 Supply voltage	10...30VDC	
负载电流 Load current	< 200mA	
压降 Voltage drop	< 2.5V	
消耗电流 current consumption	< 15mA	
重复精度 Repeatability precision	< 3%	
开关频率 Frequency	15Hz	
输出指示 Output indication	红色 LED Red LED	
保护功能 Protection	短路保护 Short-Circuit Protection & 极性保护 Reverse Polarity Protection	
绝缘耐压 Withstand voltage	2000V/AC 50/60Hz 60s	
环境温度 Ambient operating temperature	-25...+70°C	
环境湿度 Ambient humidity	35...95%	
外壳材料 Housing material	镍铜合金 Nickel-plated brass	
连接方式 Connection type	2m PVC 电缆 2M Cable	M12 连接器 M12 Male Connector
保护结构 Enclosure rating	IP65	
产品认证 certificate	CE	

## 产品外观尺寸 Drawing

单位 Unit:mm



# 圆柱形电容式接近传感器 Capacitive Proximity Sensor

10-30VDC 直流3线  
10-30VDC DC 3 Wires



安装方式 Installation type	● 埋入 Flushed	○ 非埋 Non-flushed	● 埋入 Flushed	○ 非埋 Non-flushed
检测距离 sensing range	10mm±20%	15mm±20%	10mm±20%	15mm±20%
输出方式 Output	NPN NO	RC30-10N	RC30-15N	RC30-10N-G
	NPN NC	RC30-10NB	RC30-15NB	RC30-10NB-G
输出方式 Output	PNP NO	RC30-10P	RC30-15P	RC30-10P-G
	PNP NC	RC30-10PB	RC30-15PB	RC30-10PB-G

圆柱形电容式接近传感器  
Capacitive Proximity Sensor

## 额定规格/性能 Specifications

电源电压 Supply voltage	10...30VDC
负载电流 Load current	< 200mA
压降 Voltage drop	< 2.5V
消耗电流 current consumption	< 15mA
重复精度 Repeatability precision	< 3%
开关频率 Frequency	15Hz
输出指示 Output indication	红色 LED Red LED
保护功能 Protection	短路保护 Short-Circuit Protection & 极性保护 Reverse Polarity Protection
绝缘耐压 Withstand voltage	2000V/AC 50/60Hz 60s
环境温度 Ambient operating temperature	-25...+70°C
环境湿度 Ambient humidity	35...95%
外壳材料 Housing material	镍铜合金 Nickel-plated brass
连接方式 Connection type	2m PVC 电缆 2M Cable   M12 连接器 M12 Male Connector
保护结构 Enclosure rating	IP65
产品认证 certificate	CE

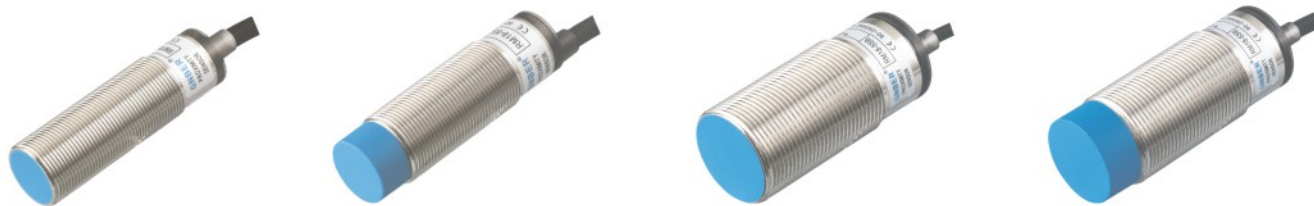
## 产品外观尺寸 Drawing

单位 Unit:mm



# 圆柱形电容式接近传感器 Capacitive Proximity Sensor

90-250VAC 交流2线  
90-250VAC AC 2 Wires



圆柱形电容式接近传感器  
Capacitive Proximity Sensor

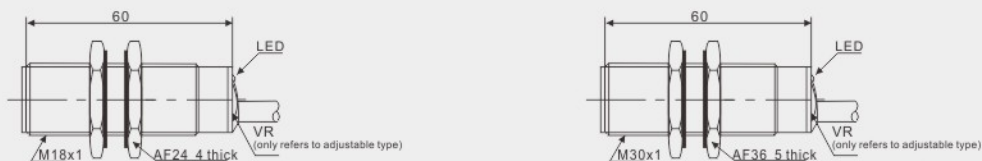
安装方式 Installation type	● 埋入 Flushed	○ 非埋 Non-flushed	● 埋入 Flushed	○ 非埋 Non-flushed
检测距离 sensing range	5mm±20%	8mm±20%	10mm±20%	15mm±20%
输出方式 Output	AC 2线 NO	RC18-5S	RC18-8S	RC30-10S
	AC 2线 NC	RC18-5SB	RC15-8SB	RC30-10SB
输出方式 Output				

## 额定规格/性能 Specifications

电源电压 Supply voltage	90...250VAC
负载电流 Load current	< 300mA
压降 Voltage drop	< 10V
消耗电流 current consumption	< 3mA
重复精度 Repeatability precision	< 3%
开关频率 Frequency	15Hz
输出指示 Output indication	红色 LED Red LED
保护功能 Protection	...
绝缘耐压 Withstand voltage	2000V/AC 50/60Hz 60s
环境温度 Ambient operating temperature	-25...+70°C
环境湿度 Ambient humidity	35...95%
外壳材料 Housing material	镍铜合金 Nickel-plated brass
连接方式 Connection type	2m PVC 电缆 2M Cable
保护结构 Enclosure rating	IP65
产品认证 certificate	CE

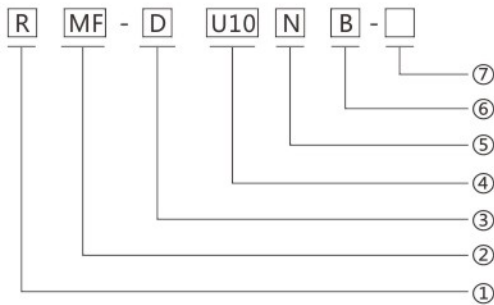
## 产品外观尺寸 Drawing

单位Unit:mm



# 光电传感器型号描述规则

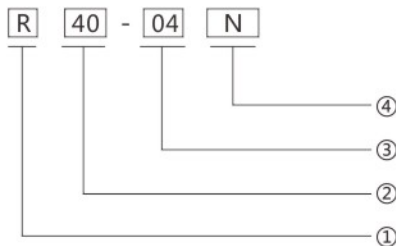
## Photoelectric sensor model designations



1. 公司代码 Company code
2. M12, MF12: 金属铜壳 M12, MF12 Brass shell  
M18: M18 金属铜壳 M18 Brass shell  
MF: M18 圆管塑料外壳 MF: M18 Plastic shell cylindrical  
F: 方型塑料外壳 F: Square plastic shell  
ML: 90°外壳 ML: 90°shell
3. D: 扩散反射式 D: diffuse reflection  
R: 镜片反射式 R: Retro reflection  
T: 对射式 T: thru-beam reflection
4. U10: 扩散反射式10cm U10: diffuse reflection 10CM  
U15: 扩散反射式15cm U15: diffuse reflection 15CM  
U40: 扩散反射式40cm U40: diffuse reflection  
U100: 扩散反射式100cm U100: diffuse reflection  
4: 4M  
5: 5M  
8: 8M  
10: 10M  
20: 20M
5. 输出方式 Switching output  
N: NPN  
P: PNP  
无: 方型塑料外壳  
N/A: Square plastic shell
6. 输出状态 Output function  
无: 表示常开 N/A: NO  
B: 表示常闭 B: NC
7. 连接形式 Connection type  
无: 表示2米引线式 N/A: 2M Cable  
G: 航空插件 G: Male Connector  
G1: 表示带30CM延长线的航空插件  
G1: Male connector with 30cm Cable

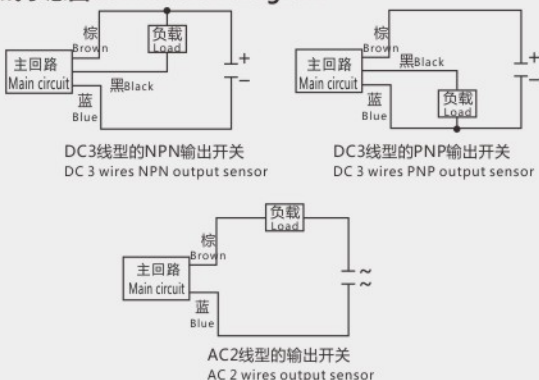
# 通用型区域光栅

## General Purpose Light Curtain

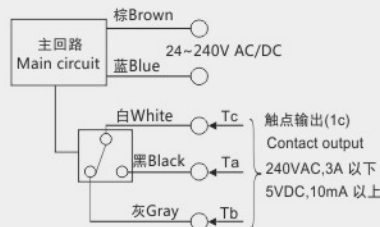


1. 公司代码 Company code
2. 光轴间距 Beam pitch 10MM 20MM 40MM
3. 光轴数 Number of optic axis
4. 输出方式 output (P:PNP)(N:NPN)

### 接线示意图 Connection diagram



对射型受光器 Throughbeam Receiver  
 回归反射型 Retro-reflective Modles  
 扩散反射型 Diffusere-lective Modles



对射型发射器  
 Throughbeam Emitter



# 光电式传感器 Photoelectric sensor

10-30VDC 直流3线  
10-30VDC DC 3 Wires



光电式传感器  
Photo sensor

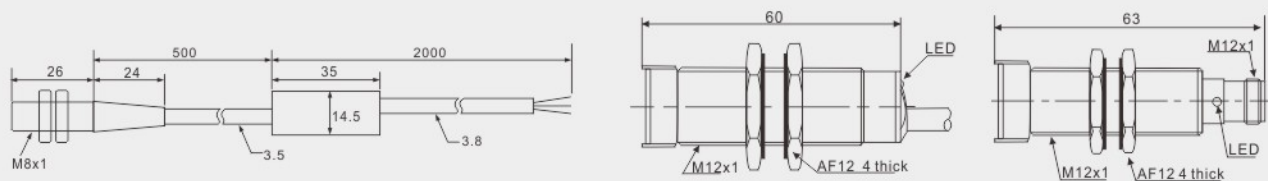
检测方式 sensor principle		漫反射 Diffuse reflection		对射 Through beam	
检测距离 sensing range		15cm 15cm	15cm(可调) 15cm(Tunable)	5m(可调) 5m(Tunable)	
输出方式 Output	NPN NO	RM8-DU15N	RMF12-DU15N	RMF12-T5N	RMF12-T5N-G
	NPN NC	RM8-DU15NB	RMF12-DU15NB	RMF12-T5NB	RMF12-T5NB-G
输出方式 Output	PNP NO	RM8-DU15P	RMF12-DU15P	RMF12-T5P	RMF12-T5P-G
	PNP NC	RM8-DU15PB	RMF12-DU15PB	RMF12-T5PB	RMF12-T5PB-G

## 额定规格/性能 Specifications

电源电压 Supply voltage	10...30VDC	
光源 light source	红外 LED Infrared ray LED	
负载电流 Load current	150mA	< 200mA
压降 Voltage drop	< 2.5V	
消耗电流 current consumption	< 25mA	
回差范围 Hysteresis	3...20%	
重复精度 Repeatability precision	< 5%	
响应时间 response time	< 8.2ms	
输出指示 Output indication	红色 LED Red LED	
保护功能 Protection	极性保护 Reverse Polarity Protection	
绝缘耐压 Withstand voltage	1000V/AC 50/60Hz 60s	
环境温度 Ambient operating temperature	-15...+55°C	
环境湿度 Ambient humidity	35...95%	
外壳材料 Housing material	镍铜合金/ABS Nickel-plated brass/ABS	
连接方式 Connection type	2m PVC 电缆 2M Cable	M12 连接器 M12 Male Connector
产品认证 certificate	CE	

## 产品外观尺寸 Drawing

单位 Unit:mm



# 圆柱形光电式传感器 Cylindrical Photoelectric Sensor

10-30VDC 直流3线  
10-30VDC DC 3 Wires



圆柱形光电式传感器  
Cylindrical Photoelectric Sensor

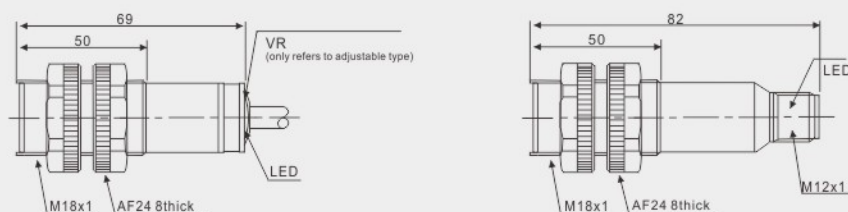
检测方式 sensor principle	漫反射 diffuse reflection	漫反射 diffuse reflection	漫反射 diffuse reflection	漫反射 diffuse reflection
检测距离 sensing range	10cm	40cm(可调) 40cm(Tunable)	10cm	40cm(可调) 40cm(Tunable)
输出方式 Output	NPN NO	RMF-DU10N	RMF-DU40N	RMF-DU10N-G
	NPN NC	RMF-DU10NB	RMF-DU40NB	RMF-DU10NB-G
输出方式 Output	PNP NO	RMF-DU10P	RMF-DU40P	RMF-DU10P-G
	PNP NC	RMF-DU10PB	RMF-DU40PB	RMF-DU10PB-G

## 额定规格/性能 Specifications

电源电压 Supply voltage	10...30VDC	
光源 light source	红外 LED Infrared ray LED	
负载电流 Load current	< 200mA	
压降 Voltage drop	< 2.5V	
消耗电流 current consumption	< 25mA	
回差范围 Hysteresis	3...20%	
重复精度 Repeatability precision	< 5%	
响应时间 response time	< 8.2ms	
输出指示 Output indication	红色 LED Red LED	
保护功能 Protection	极性保护 Reverse Polarity Protection	
绝缘耐压 Withstand voltage	1000V/AC 50/60Hz 60s	
环境温度 Ambient operating temperature	-15...+55°C	
环境湿度 Ambient humidity	35...95%	
外壳材料 Housing material	ABS	
连接方式 Connection type	2m PVC 电缆 2M Cable	M12 连接器 M12 Male Connector
产品认证 certificate	CE	

## 产品外观尺寸 Drawing

单位Unit:mm



# 圆柱形光电式传感器 Cylindrical Photoelectric Sensor

10-30VDC 直流3线  
10-30VDC DC 3 Wires



圆柱形光电式传感器  
Cylindrical Photoelectric Sensor

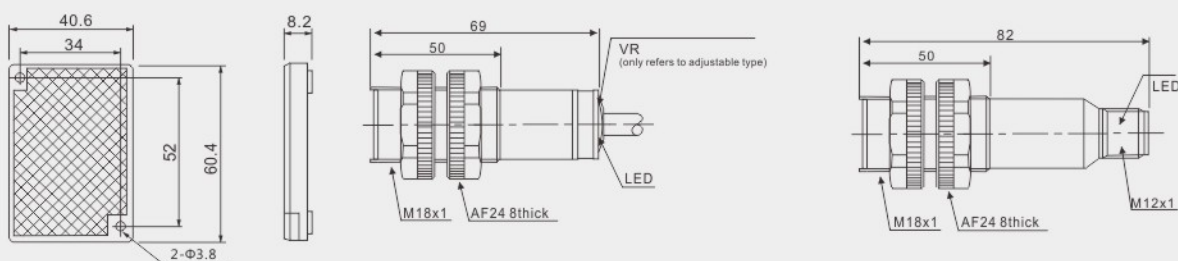
检测方式 sensor principle		镜面反射 retro reflection		对射 Through beam	对射 Through beam
检测距离 sensing range		3m		10m	10m
输出方式 Output	NPN NO	RMF-R3N	RMF-R3N-G	RMF-T10N	RMF-T10N-G
	NPN NC	RMF-R3NB	RMF-R3NB-G	RMF-T10NB	RMF-T10NB-G
输出方式 Output	PNP NO	RMF-R3P	RMF-R3P-G	RMF-T10P	RMF-T10P-G
	PNP NC	RMF-R3PB	RMF-R3PB-G	RMF-T10PB	RMF-T10PB-G

## 额定规格/性能 Specifications

电源电压 Supply voltage	10...30VDC		
光源 light source	红外 LED Infrared ray LED		
负载电流 Load current	< 200mA		
压降 Voltage drop	< 2.5V		
消耗电流 current consumption	< 25mA		
回差范围 Hysteresis	...		
重复精度 Repeatability precision	< 5%		
响应时间 response time	< 8.2ms		
输出指示 Output indication	红色 LED Red LED		
保护功能 Protection	极性保护 Reverse Polarity Protection		
绝缘耐压 Withstand voltage	1000V/AC 50/60Hz 60s		
环境温度 Ambient operating temperature	-15... + 55°C		
环境湿度 Ambient humidity	35...95%		
外壳材料 Housing material	ABS		
连接方式 Connection type	2m PVC 电缆 2M Cable	M12 连接器 M12 Male Connector	2m PVC 电缆 2M Cable M12 连接器 M12 Male Connector
产品认证 certificate	CE		

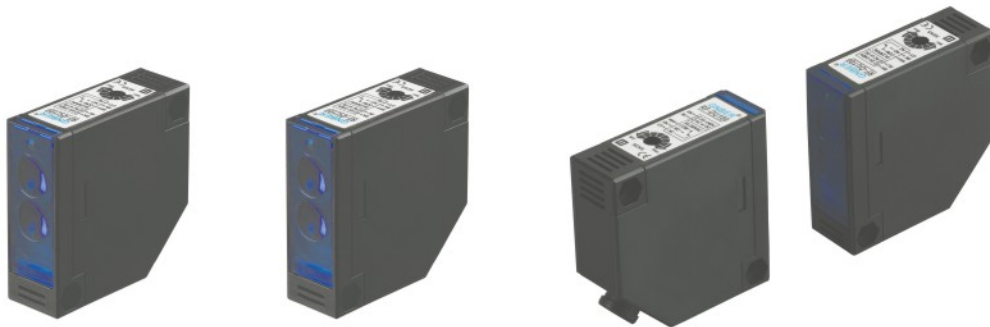
## 产品外观尺寸 Drawing

单位 Unit:mm



# 方形光电式传感器 Rectangular Photoelectric Sensor

24-240VAC/24-240VDC 5线  
24-240VAC/24-240VDC 5 Wires



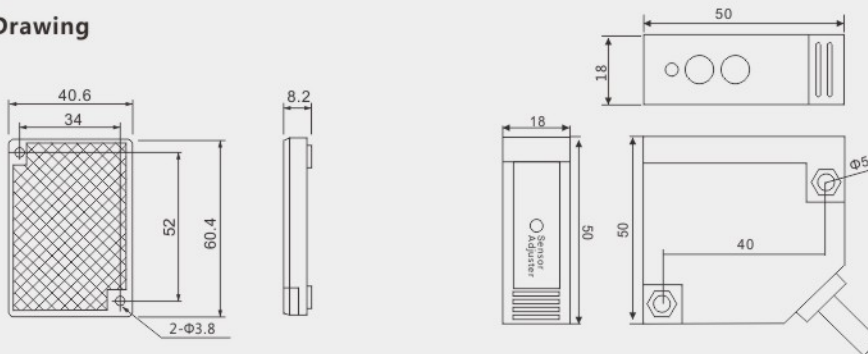
产品型号 Model	RF-DU100	RF-R4	RF-T10
检测方式 sensor principle	漫反射 diffuse reflection	镜面反射 retro reflection	对射 Through beam
检测距离 sensing range	100cm(可调) 100cm(Tunable)	4m(可调) 4m(Tunable)	10m(可调) 10m(Tunable)
输出方式 Output	触点输出 Contact output		

## 额定规格/性能 Specifications

电源电压 Supply voltage	24...240VAC/24-240VDC		
光源 light source	红外 LED Infrared ray LED		
负载电流 Load current	< 3A		
压降 Voltage drop	...		
消耗电流 current consumption	...		
回差范围 Hysteresis	3...20%	...	
重复精度 Repeatability precision	< 5%		
响应时间 response time	< 30ms		
输出指示 Output indication	红色 LED Red LED		
保护功能 Protection	...		
绝缘耐压 Withstand voltage	2000V/AC 50/60Hz 60s		
环境温度 Ambient operating temperature	-15...+55°C		
环境湿度 Ambient humidity	35...95%		
外壳材料 Housing material	PC/ABS		
连接方式 Connection type	2m PVC 电缆 2M Cable		
产品认证 certificate	CE		

## 产品外观尺寸 Drawing

单位Unit:mm



# 方形光电式传感器 Rectangular Photoelectric Sensor

24-240VAC/24-240VDC 5线  
24-240VAC/24-240VDC 5 Wires



方形光电式传感器  
Rectangular Photoelectric Sensor

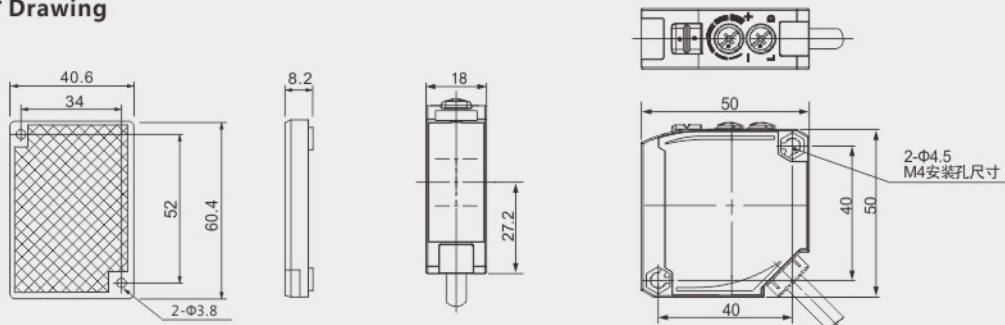
产品型号 Model	E3JK-DR11	E3JK-DR12	E3JK-RR11	E3JK-RR12	E3JK-TR11	E3JK-TR12
检测方式 sensor principle	漫反射 diffuse reflection		镜面反射 retro reflection	镜面反射 (M.S.R) retro reflection	对射 Through beam	
检测距离 sensing range	30cm(可调) 30cm(Tunable)	2.5m(可调) 2.5m(Tunable)	5m(可调) 5m(Tunable)	5m(可调) 5m(Tunable)	5m(可调) 5m(Tunable)	40m(可调) 40m(Tunable)
输出方式 Output	触点输出 Contact output					

## 额定规格/性能 Specifications

电源电压 Supply voltage	24...240VAC/24-240VDC	
光源 light source	红外 LED Infrared ray LED	
负载电流 Load current	< 3A	
压降 Voltage drop	...	
消耗电流 current consumption	3W以下	
回差范围 Hysteresis	3...20%	...
重复精度 Repeatability precision	< 5%	
响应时间 response time	< 30ms	
输出指示 Output indication	红色 LED Red LED	
动作模式 Action mode	可通过旋钮选择Light-ON或Dark-ON	
绝缘耐压 Withstand voltage	2000V/AC 50/60Hz 60s	
环境温度 Ambient operating temperature	-15...+55°C	
环境湿度 Ambient humidity	35...95%	
外壳材料 Housing material	PC/ABS	
连接方式 Connection type	2m PVC 电缆 2M Cable	
产品认证 certificate	CE	

## 产品外观尺寸 Drawing

单位Unit:mm



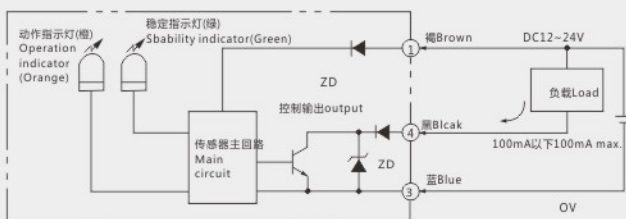
# 小型光电式传感器 Compact Photoelectric Sensor



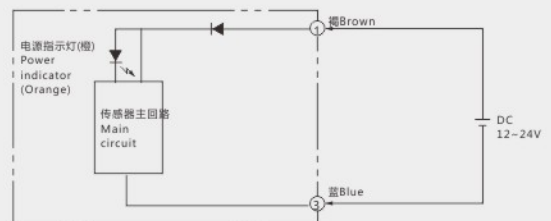
## 额定规格/性能 Specifications

检测方式 sensor principle		扩散反射型 Diffusere-flective		回归反射型 Retro-reflective	对射型 Throughbeam
型号Model	NPN输出/NPN OUTPUT	R3Z-DU10N	R3Z-DU50N	R3Z-R2N	R3Z-T10N
	PNP输出/PNP OUTPUT	R3Z-DU10P	R3Z-DU50P	R3Z-R2P	R3Z-T10P
项目Item					
检测距离 sensor principle		10cm	45cm	2m	8m
电源电压 Supply voltage		12-24V			
负载电流 Load current		100mA			
标准检测物体 Standard sensing boject		白纸100×100mm White non reflective paper 100x100mm	Φ75mm以上的不透明物体 Opaque materais: 75mm min.	Φ12mm以上的不透明物体 Opaque materais: 12mm min.	
回差范围 Hysteresis		检测距离的20%以下 20%max.ofsensing		—	
指向角 Direction angle				2~10°	3~15°
光源 Light source		红外发光二极管 Infrared LED		红外发光二极管 Infrared LED	红外发光二极管 Infrared LED
消耗电流 Current consumption		30mA以下 30mA max.			投光器15mA以下、 受光器20mA以下 Emitter::15mA max. Receiver:20mA max.
响应时间 response time		动作、复位：各1ms以下 1.0ms max.			
保护结构 Enclosure rating		IP64			
连接方式 Connection type		导线引出型2m Pre-wired 2m			
产品认证 certificate		CE			

对射型受光器Throughbeam Receiver  
回归反射型Retro-reflective Modles  
扩散反射型Diffusere-flective Modles



对射型投光器Throughbeam Emitter

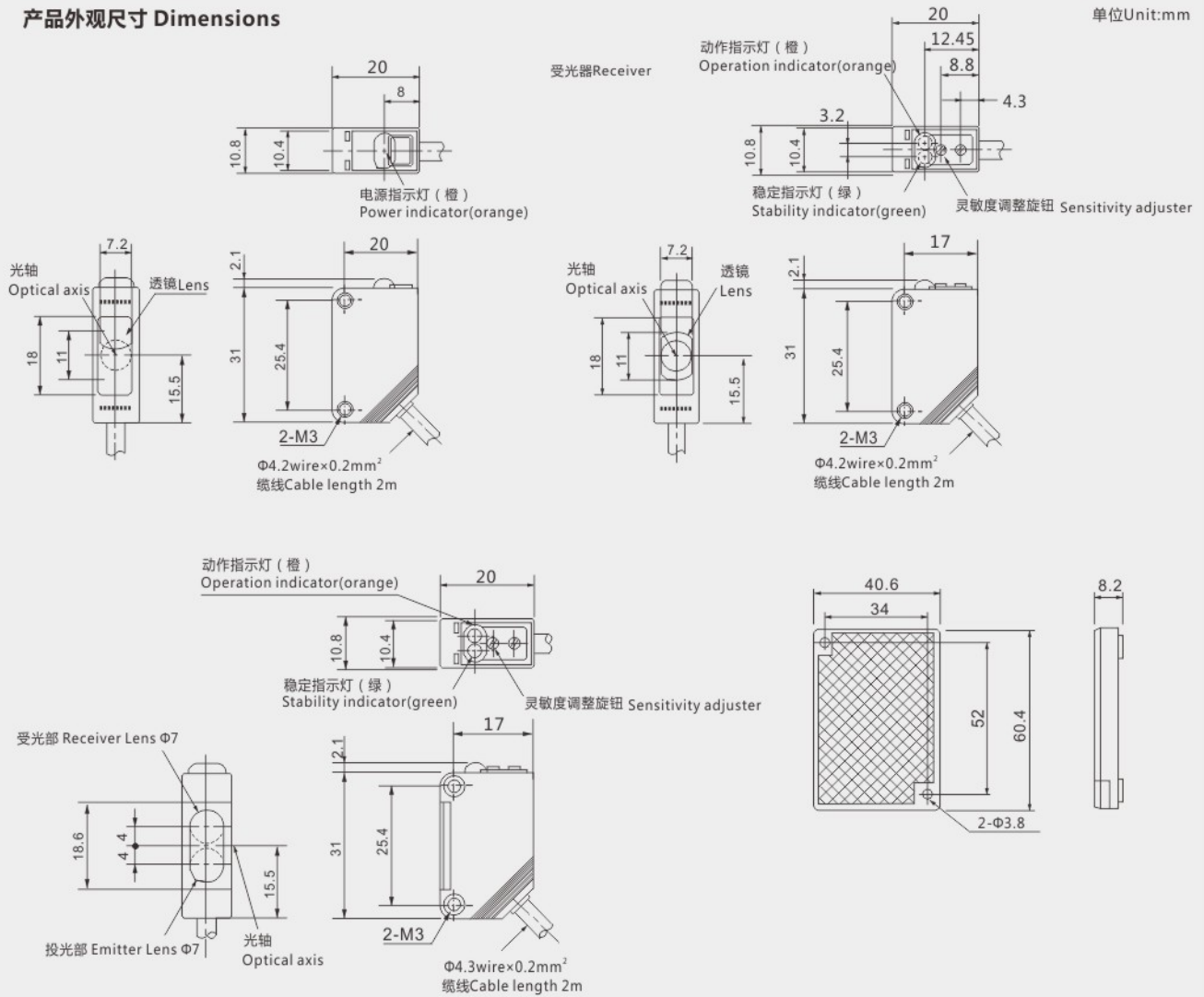


# 小型光电式传感器 Compact Photoelectric Sensor

检测方式 sensor principle	形状 Appearance	连接方式 Connction	检测距离 sensing range	型号Model	
				NPN输出 NPN Output	PNP输出 PNP Output
对射型Throughbeam (投光器Emitter + 受光器Receiver)		导线引出型(2m) Pre-wired 2m	8m	R3Z-T10N	R3Z-T10P
回归反射型 Retro-reflective (带M.S.R.功能)	*1		2m	R3Z-R2N	R3Z-R2P
扩散反射型 Diffusere-flective			10cm	R3Z-DU10N	R3Z-DU10P
扩散反射型 Diffusere-flective			45cm	R3Z-DU50N	R3Z-DU50P

## 产品外观尺寸 Dimensions

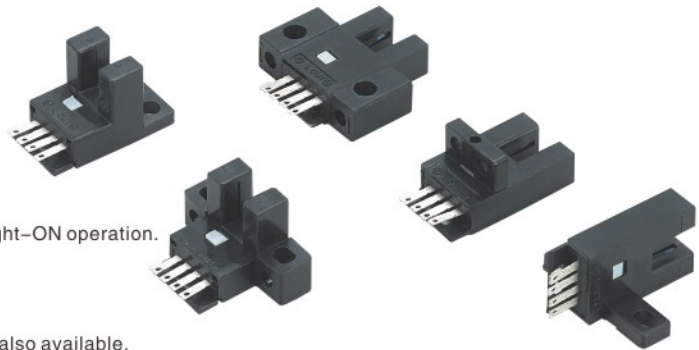
单位Unit:mm



# 微型凹槽型光电传感器

## U-type Micro Photoelectric sensor

动作模式备用遮光时ON/入光时ON(可切换型)  
 响应频率为1kHz的高速响应  
 入光指示灯明显，便于进行动作确认  
 电源电压为DC5~24V的广范围  
 备有遮光时入光指示灯亮灯型  
 5种形状、种类丰富  
 标准采用柔韧性佳的耐曲折导线



Series includes models that enable switching between dark-ON and light-ON operation.  
 Response frequency as high as 1 kHz.  
 Easy operation monitoring with bright light indicator.  
 Wide operating voltage range:5 to 24 VDC  
 Models in which the light indicator turns ON for dark-ON operation are also available.  
 A wide range of variations in five different shapes.  
 Flexible robot cable is provided as a standard feature.

### 种类 Odering Information

型状 Appearance	动作模式 Output configurational	指示灯模式 Indicator mode	连接方式 Connecting method	输出方式Output	
				NPN Output	PNP Output
标准型 Standard	遮光时ON Dark-ON 入光时ON Light-ON (可切换selectable)*1	入光时亮起Incident light	接插件型 Male Connector (4极poles)	RSX-670N	RSX-670P
L型 L-shaped				RSX-671N	RSX-671P
T型 T-shaped, slot center				RSX-672N	RSX-672P
紧密安装型 Close-Installation type				RSX-673N	RSX-673P
紧密安装型 Close-Installation type				RSX-674N	RSX-674P
标准型 Standard			导线引出型 Pre-wired Models(1m)	RSX-670N-WR	RSX-670P-WR
L型 L-shaped				RSX-671N-WR	RSX-671P-WR
T型 T-shaped, slot center				RSX-672N-WR	RSX-672P-WR
紧密安装型 Close-Installation type				RSX-673N-WR	RSX-673P-WR
紧密安装型 Close-Installation type				RSX-674N-WR	RSX-674P-WR

\*1.如开放 (L)，则遮光时ON；如使 (L) 端子和 (+) 端子短路，则入光时ON。但是，遮光时ON的情况下，请勿使L端子0V短路。  
 Dark-ON operation can be used when the L terminal is left unconnected or Light-ON operation can be used when the L terminal and positive (+)terminal are connected to each other. Do not connect the L terminal to 0 V when using dark-ON operation.

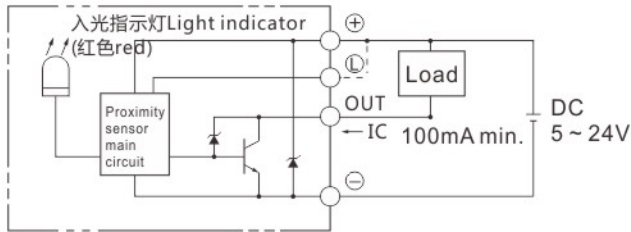
# 微型凹槽型光电传感器

## U-type Micro Photoelectric sensor

### 输出回路 Output Circuits

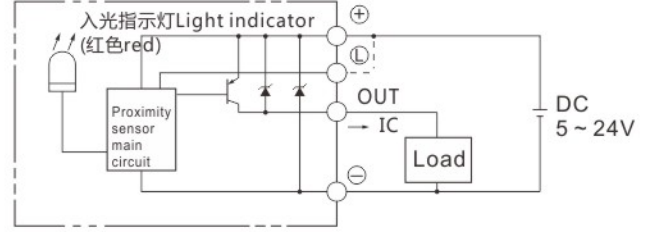
#### ● NPN输出

- RSX-67□N
- RSX-67□N-WR



#### ● PNP输出

- RSX-67□P
- RSX-67□P-WR



### 额定规格/性能 Specifications

检测方式 sensor principle	对射型 Through beam	
检测距离 sensing range	5mm(凹槽宽度slot width)	
标准检测物体 Sensing object	最小检测物体: Minimum sensing object:2x0.8mm	
回差距离Hysteresis	0.025mm max.	
光源(最大发光波长)Light source	GaAs 红外发光二极管 (940nm) GaAs infrared LED with a peak wavelength of 940 nm	
指示灯 Indicator ※1	入光时亮光 (红光) Light indicator(red)	
电源电压Supply voltage	DC5~24V±10%纹波ripple(P-P)10% max.	
消耗电流 Current consumption	35mA max.(NPN型models)、30mA max.(PNP型models)	
控制输出 Control output	NPN型: NPN型开放式接插件 输出DC5~24V 100mA max. 残留电压0.8V以下(负载电流100mA时)、关机电流(漏电电流)0.5mA max. PNP型: PNP开放式接插件 输出DC5~24V 50mA max. 残留电压1.3V以下(负载电流50mA时)、关机电流(漏电电流)0.5mA max. NPN open collector:5 to 24 VDC,100 mA max. 100 mA load current with a Voltage drop of 0.8 V max. 40 mA load current with a Voltage drop of 0.4 V max. OFF current(leakage current):0.5mA max. PNP open collector:5 to 24 VDC,50 mA max. 50 mA load current with a Voltage drop of 1.3 V max. OFF current (leakage current):0.5 mA max.	
响应频率 Response frequency ※2	1kHz min.	
使用环境照度 Ambient temperature range	受光面照度Receiving surface illumination 荧光灯光fluorescent light:1,000lx max.	
环境温度范围 Ambient temperature range	工作时Operating:-25~+55°C 保存时Storage:-30~+80°C(无结冰、结露with no icing or condensation)	
环境湿度范围 Ambient humidity range	工作时Operating:5~85°C 保存时Storage:5~95%RH(无结冰、结露with no icing or condensation)	
振动(耐久) Vibration resistance	20~2,000Hz(最大加速度peak acceleration 100m/s <sup>2</sup> ) 上下振幅double amplitude 1.5mm X、Y、Z各方向In each direction 2h(4min周期periods)	
冲击(耐久) Shock resistance	500m/s <sup>2</sup> X、Y、Z各方向In each direction 3次times	
保护结构 Enclosure rating	IP50	
连接方式 Connecting method	接插件型Male Connector Models (可直接焊接direct soldering possible)、 导线引出型Pre-wired Models(标准导线长Standard cable length:1m)	
材质 Material	外壳 Case	聚对苯二甲酸丁二醇酯Polybutylene phthalate(PBT)
	罩盖投、受光部 Cover/Emitter/receiver	聚碳酸酯Polycarbonate

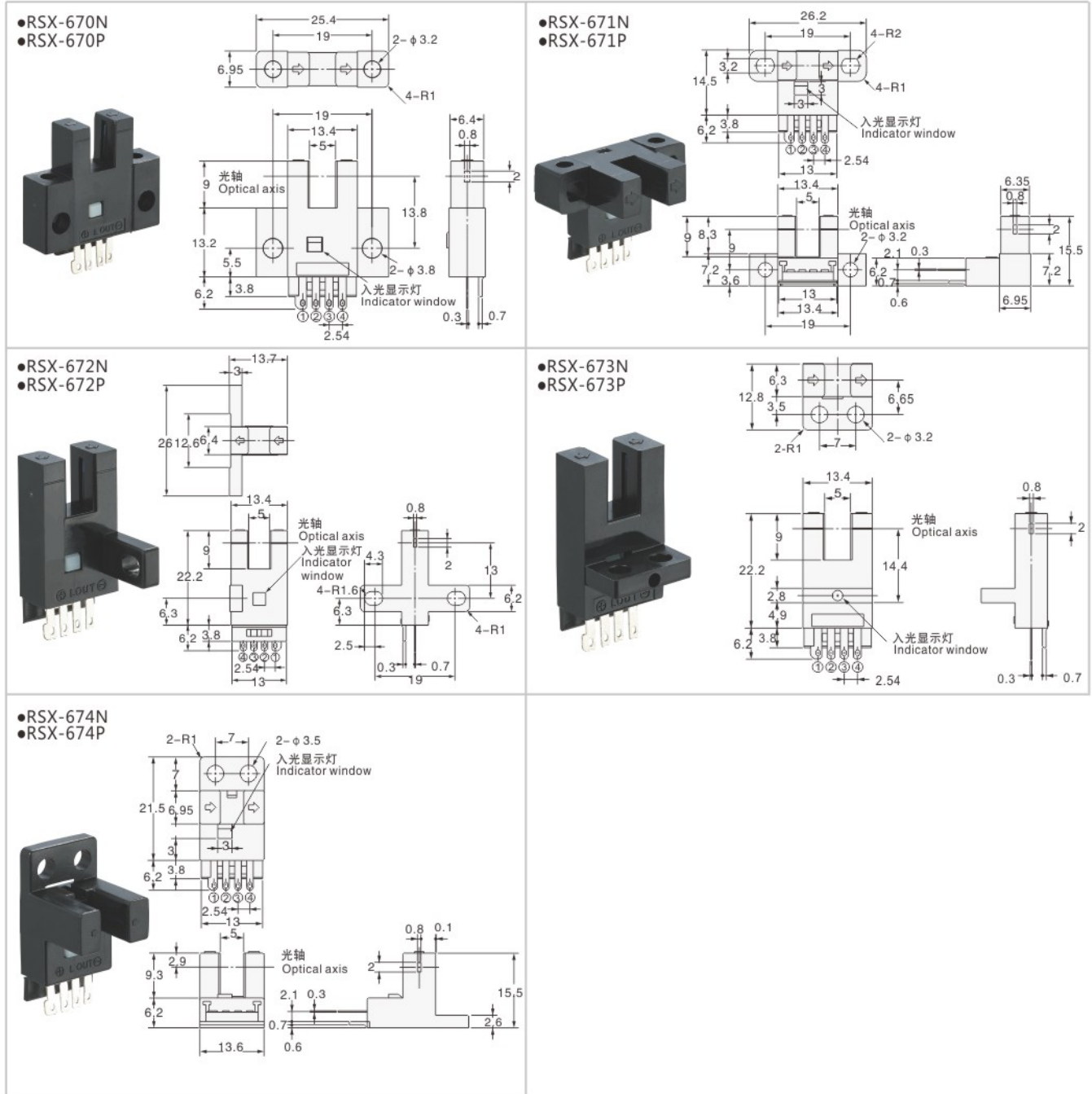
\*1.GaP红色LED The indicator is a GaP red LED(最大发光波长Peak wavelength:690nm)

\*2.响应频率测定的是旋转右图圆板时的值The response frequency was measured by detecting the rotating disk shown at the right.

# 微型凹槽型光电传感器 U-type Micro Photoelectric sensor

产品尺寸图 Dimensions

单位Unit : mm





# 微型凹槽型光电传感器

## U-type Micro Photoelectric sensor

超小型的结构使设备小型化  
 备有便于安装的连接器型  
 动作模式备有遮光时ON/入光时ON (可切换型)  
 响应频率为3kHz的高速响应  
 电源电压为DC5~24V的广范围

- Miniature Size.
- Quick connection type available.
- Dark-ON and Light-ON selectable.
- Response frequency as high as 3kHz.
- Wide operating voltage: 5 to 24VDC.

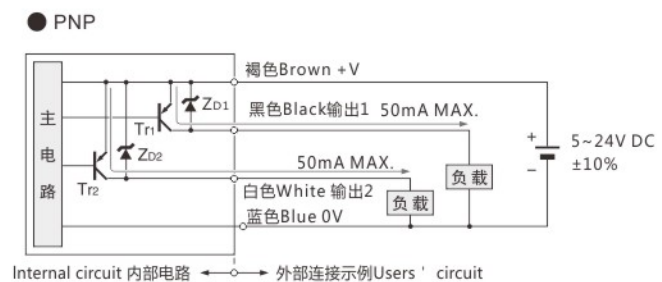
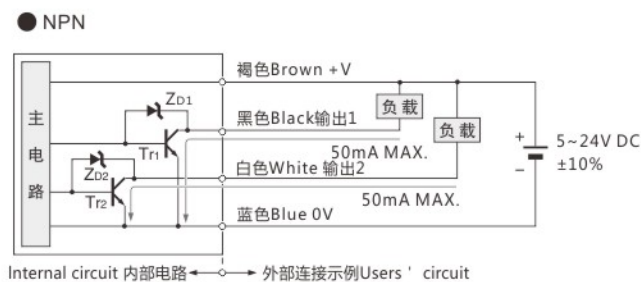


### 种类 Odering Information

形状 Appearance	动作模式 Output configuration	指示灯模式 Indicator mode	连接方式 Connecting method	输出方式Output	
				NPN Output	PNP Output
K型 K-shaped 	遮光时ON Dark-ON 入光时ON Light-ON (可切换selectable)	入光时亮起 Incident light	导线引出型 Pre-wired Models(1m)	RSX-K24N	RSX-K24P
L型 L-shaped 				RSX-L24N	RSX-L24P
F型 F-shaped 				RSX-F24N	RSX-F24P
R型 R-shaped 				RSX-R24N	RSX-R24P
U型 U-shaped 				RSX-U24N	RSX-U24P

微型凹槽型光电传感器  
U-type Micro Photoelectric sensor

### 输出回路 Output Circuits



	导线颜色 Wire color	输出动作 Output operation
输出 Output1	黑色 Black	Light-ON
输出 Output2	白色 White	Dark-ON

	导线颜色 Wire color	输出动作 Output operation
输出 Output1	黑色 Black	Light-ON
输出 Output2	白色 White	Dark-ON

(注1): 由于本产品中并未装备电源反向连接保护电路, 因此请切实进行连接。此外, 也未装备输出短路保护电路。请勿直接连接电源或容性负载。一旦配线错误, 将导致传感器损坏。

Notes:1) Make sure to connect terminals correctly as the sensor does not incorporate a reverse polarity protection circuit. Further, the output is not incorporated with a short-circuit protection circuit. Do not connect it directly to a power supply or a capacitive load. Faulty wiring may result in damage.

(注2): 对不使用的输出线, 请务必进行绝缘处理。

Notes:2) The color code of the Male Connector attached cable is also the same, Ensure to insulate the unused output wire.



# 微型凹槽型光电传感器 U-type Micro Photoelectric sensor



## 产品外观尺寸 Drawing

单位Unit:mm

品名 Product Name	带导线的接插件 Male Connector with wire																																		
型号 Model	RSX-1001	RSX-1010	RSX-1006																																
形状 Appearance																																			
尺寸 Dimensions	<p>导线: PVC绝缘圆形导线 φ4、4芯 (导体截面积: 0.2mm<sup>2</sup>、 绝缘体直径: φ1.1mm) Cable: PVC Insulated conductor φ4, 4 wire (conductor cross-section: 0.2mm<sup>2</sup>, Insulator diameter: φ1.1mm)</p> <p>端子配置 Terminal configuration</p> <table border="1"> <tr><td>①</td><td>⊖</td></tr> <tr><td>②</td><td>OUT</td></tr> <tr><td>③</td><td>⊕</td></tr> <tr><td>④</td><td>—</td></tr> </table>	①	⊖	②	OUT	③	⊕	④	—	<p>导线: PVC绝缘圆形导线 φ4、4芯 (导体截面积: 0.2mm<sup>2</sup>、 绝缘体直径: φ1.1mm) Cable: PVC Insulated conductor φ4, 4 wire (conductor cross-section: 0.2mm<sup>2</sup>, Insulator diameter: φ1.1mm)</p> <p>端子配置 Terminal configuration</p> <table border="1"> <tr><td>①</td><td>⊕</td><td>褐色 Brown</td></tr> <tr><td>②</td><td>L</td><td>粉色 Pink</td></tr> <tr><td>③</td><td>OUT</td><td>黑色 Black</td></tr> <tr><td>④</td><td>⊖</td><td>蓝色 Blue</td></tr> </table>	①	⊕	褐色 Brown	②	L	粉色 Pink	③	OUT	黑色 Black	④	⊖	蓝色 Blue	<p>导线: PVC绝缘圆形导线 φ4、4芯 (导体截面积: 0.2mm<sup>2</sup>、 绝缘体直径: φ1.1mm) Cable: PVC Insulated conductor φ4, 4 wire (conductor cross-section: 0.2mm<sup>2</sup>, Insulator diameter: φ1.1mm)</p> <p>端子配置 Terminal configuration</p> <table border="1"> <tr><td>①</td><td>⊕</td><td>褐色 Brown</td></tr> <tr><td>②</td><td>L</td><td>粉色 Pink</td></tr> <tr><td>③</td><td>OUT</td><td>黑色 Black</td></tr> <tr><td>④</td><td>⊖</td><td>蓝色 Blue</td></tr> </table>	①	⊕	褐色 Brown	②	L	粉色 Pink	③	OUT	黑色 Black	④	⊖	蓝色 Blue
①	⊖																																		
②	OUT																																		
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③	OUT	黑色 Black																																	
④	⊖	蓝色 Blue																																	

# 小型激光传感器 Cylindrical laser Sensor



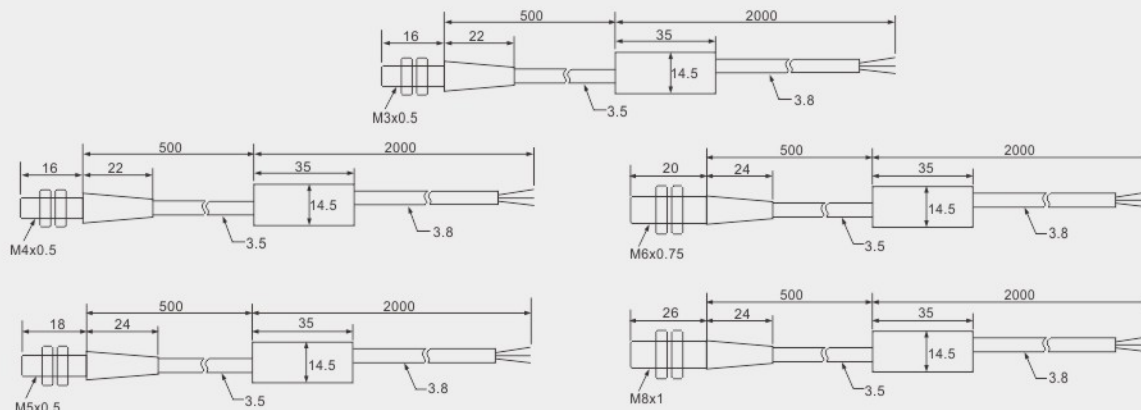
小型激光传感器  
Cylindrical laser Sensor

## 额定规格/性能 Specifications

检测方式 sensor principle		扩散反射型 Diffusere-flective	扩散反射型 Diffusere-flective	扩散反射型 Diffusere-flective	扩散反射型 Diffusere-flective	扩散反射型 Diffusere-flective
检测距离 sensing range		3cm 感应距离可调 3cm Customized	5cm 感应距离可调 5cm Customized	10cm 感应距离可调 10cm Customized	15cm 感应距离可调 15cm Customized	15cm 感应距离可调 15cm Customized
输出方式 Output	NPN NO	RM3-DU3N-L	RM4-DU5N-L	RM5-DU10N-L	RM6-DU15N-L	RM8-DU15N-L
	NPN NC	RM3-DU3NB-L	RM4-DU5NB-L	RM5-DU10NB-L	RM6-DU15NB-L	RM8-DU15NB-L
输出方式 Output	PNP NO	RM3-DU3P-L	RM4-DU5P-L	RM5-DU10P-L	RM6-DU15P-L	RM8-DU15P-L
	PNP NC	RM3-DU3PB-L	RM4-DU5PB-L	RM5-DU10PB-L	RM6-DU15PB-L	RM8-DU15PB-L
工作电压 Voltage		DC10V-30V				
激光波长 wavelength		650nm				
光源类型 Type of light source		激光二极管 laser LED				
光源特性 Light source characteristics		可见红光 调制光 Visible red light				
消耗电流 current consumption		9mA				
负载电流 load current		150mA				
开关频率 frequency		120Hz				
工作环境温度 ambient temperature		-5°C+50°C				
外壳材料 housing material		不锈钢 Stainless steel				
注意 Matters needing attention		激光不可直视 Not look straight				
产品认证 certificate		CE				

## 产品外观尺寸 Drawing

单位 Unit:mm



# 激光传感器 Cylindrical laser Sensor

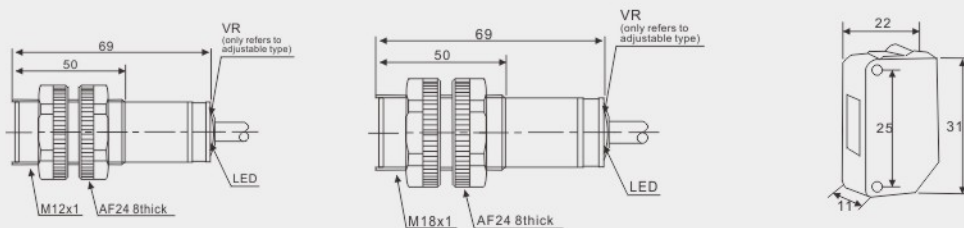


## 额定规格/性能 Specifications

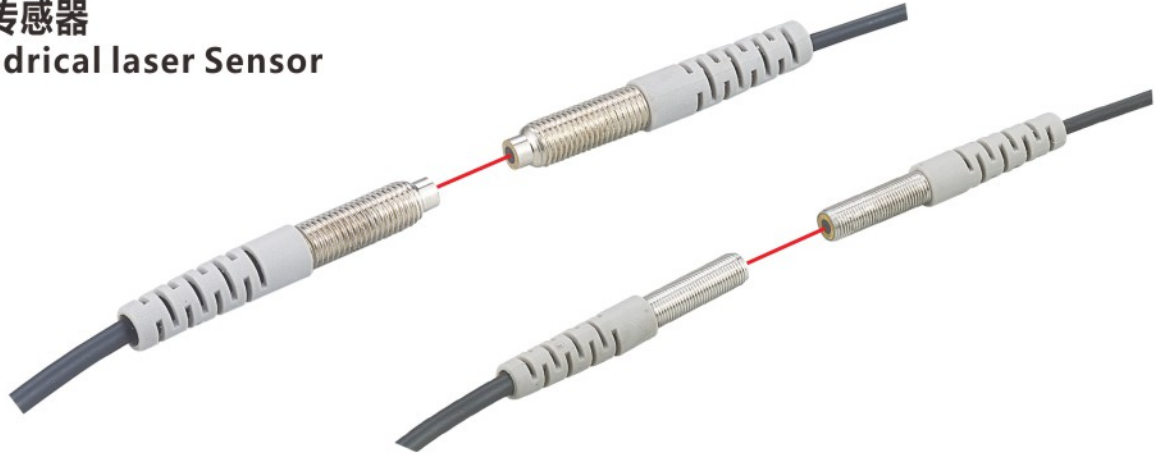
检测方式 sensor principle	扩散反射型 Diffusere-flective	扩散反射型 Diffusere-flective	扩散反射型 Diffusere-flective
检测距离 sensing range	0-10cm 感应距离可调 0-10cm Customized	0-40cm 感应距离可调 0-40cm Customized	0-30cm 感应距离可调 0-30cm Customized
输出方式 Output	NPN NO	RM12-DU10N	RM18-DU40N
	PNP NO	RM12-DU10P	RM18-DU40P
工作电压 Voltage	DC10V-30V		
激光波长 wavelength	650nm		
光源类型 Type of light source	激光二极管 laser LED		
光源特性 Light source characteristics	可见红光调制光 Visible red light		
消耗电流 current consumption	40mA		9mA
负载电流 load current	200mA		150mA
开关频率 frequency	300Hz		150Hz
工作环境温度 ambient temperature	-25°C+55°C		
外壳材料 housing material	铜镀铬/ABS外壳 chromium-copper alloy/ABS		ABS外壳 ABS
注意 Matters needing attention	激光不可直视 Not look straight		
产品认证 certificate	CE		

## 产品外观尺寸 Drawing

单位Unit:mm



# 激光传感器 Cylindrical laser Sensor



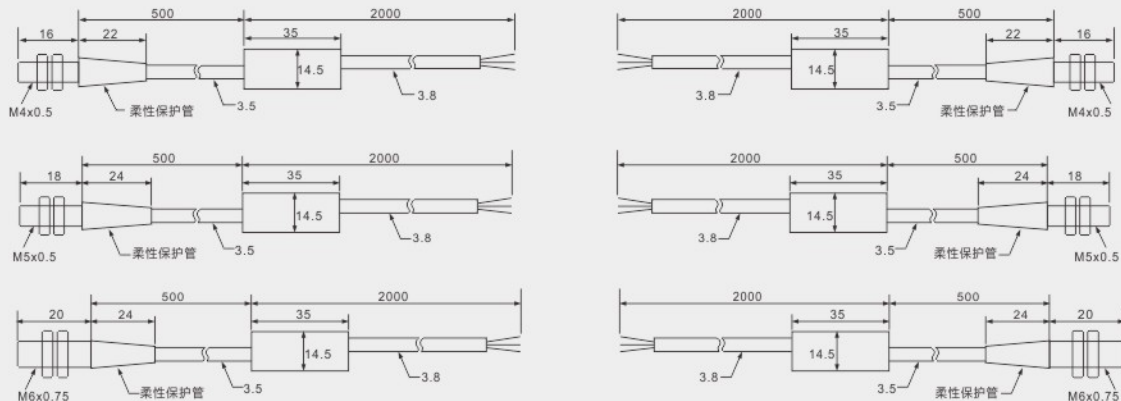
激光传感器  
Cylindrical laser Sensor

## 额定规格/性能 Specifications

检测方式 sensor principle		对射型 Throughbeam	对射型 Throughbeam	对射型 Throughbeam	对射型 Throughbeam	对射型 Throughbeam
检测距离 sensing range		20m	20m	20m	20m	20m
输出方式 Output	NPN NO	RM3-T20N-L	RM4-T20N-L	RM5-T20N-L	RM6-T20N-L	RM8-T20N-L
	NPN NC	RM3-T20NB-L	RM4-T20NB-L	RM5-T20NB-L	RM6-T20NB-L	RM8-T20NB-L
输出方式 Output	PNP NO	RM3-T20P-L	RM4-T20P-L	RM5-T20P-L	RM6-T20P-L	RM8-T20P-L
	PNP NC	RM3-T20PB-L	RM4-T20PB-L	RM5-T20PB-L	RM6-T20PB-L	RM8-T20PB-L
工作电压 Voltage		DC10V-30V				
激光波长 wavelength		650nm				
光源类型 Type of light source		激光二极管 laser LED				
光源特性 Light source characteristics		可见红光调制光 Visible red light				
消耗电流 current consumption		发射6mA、接收9mA Emitter 6mA/Receiver 9mA				
负载电流 load current		150mA				
开关频率 frequency		120Hz				
工作环境温度 ambient temperature		-5°C+50°C				
外壳材料 housing material		不锈钢 Stainless steel		铜镀铬chromium-copper alloy		
注意 Matters needing attention		激光不可直视 Not look straight				
产品认证 certificate		CE				

## 产品外观尺寸 Drawing

单位Unit:mm



# 激光传感器 Cylindrical laser Sensor



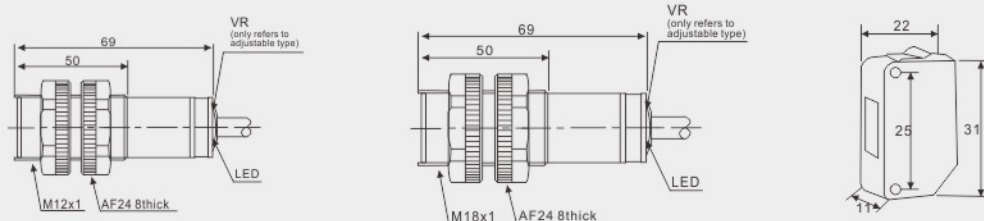
激光传感器  
Cylindrical laser Sensor

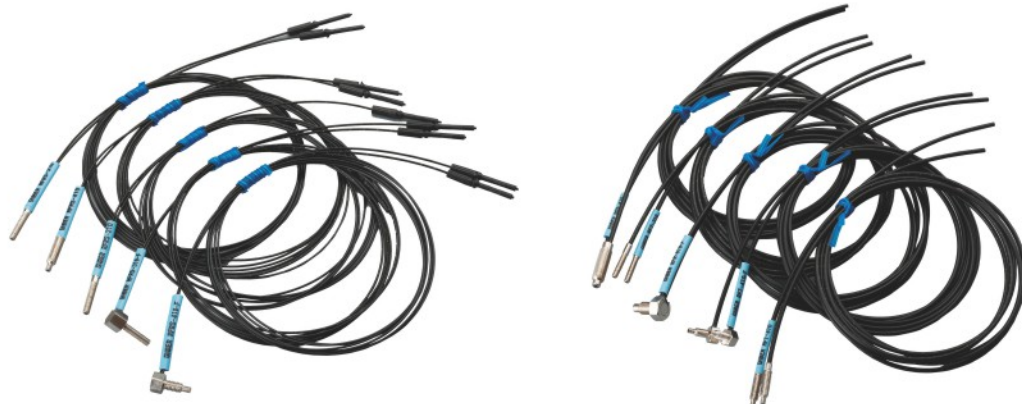
## 额定规格/性能 Specifications

检测方式 sensor principle		对射型 Throughbeam	对射型 Throughbeam	对射型 Throughbeam
检测距离 sensing range		20cm-20M 感应距离可定制 20cm-20M Customized	20cm-20M 感应距离可定制 20cm-20M Customized	20cm-50M 感应距离可定制 20cm-50M Customized
输出方式 Output	NPN NO	RM12-T20N	RM18-T20N	R3Z-T50N-L
	PNP NO	RM12-T20P	RM18-T20P	R3Z-T50P-L
工作电压 Voltage	DC10V-30V			
激光波长 wavelength	650nm			
光源类型 Type of light source	激光二极管 laser LED			
光源特性 Light source characteristics	可见红光.调制光 Visible red light			
消耗电流 current consumption		发射35mA、接收45mA Emitter 35mA/Receiver 45mA		9mA
负载电流 load current		200mA		150mA
开关频率 frequency		300Hz		120Hz
工作环境温度 ambient temperature	-25°C+55°C			
外壳材料 housing material		铜镀铬/ABS外壳 chromium-copper alloy/ABS		ABS外壳 ABS
注意 Matters needing attention	激光不可直视 Not look straight			
产品认证 certificate	CE			

## 产品外观尺寸 Drawing

单位Unit:mm



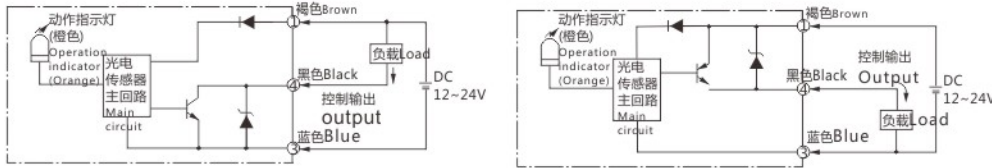


## 种类 Oding Information

外径尺寸 Dimensions	类型 Type	型号 Model	光纤长度 (自由裁剪) Cable length	光纤直径 Optical fiber diameter	备注 Remarks	
M3	漫反射 Diffuse reflection	RFRS-310	1M	Φ0.5	I:1cm S:2cm M:4cm L:9cm F:90° 2:光纤线长2M Cable length 2M	
		RFRS-310-I	1M			
		RFRS-310-S	1M			
		RFRS-310-M	1M			
	漫反射 (细线) Diffuse reflection()	RFRE-310	1M	Φ0.25		
		RFRE-310-I	1M			
		RFRE-310-S15	1M			
		RFRE-310-S	1M			
	90°漫反射 Diffuse reflection	RFRS-310-F	1M	Φ0.5		
	90°同轴漫反射Coaxial diffuse reflection	RFRC-310-F	1M	Φ0.5x9x0.25		
	同轴漫反射Coaxial diffuse reflection	RFRC-310	1M			
	对射Throughbeam	对射Throughbeam	RFRC-310-I	1M		Φ0.5
			RFT-310	1M		
			RFT-310-I	1M		
RFT-310-S			1M			
90°对射Throughbeam		RFTS-310	1M	Φ0.5		
		RFTS-310-I	1M			
M4	漫反射Diffuse reflection	RFT-310-F	1M	Φ0.5		
		RFRS-410	1M	Φ0.5		
		RFRS-410-I	1M			
		RFRS-410-S	1M			
		RFRS-410-M	1M			
	RFRS-410-L	1M				
	漫反射 (细线) Diffuse reflection(fine)	RFRE-410	1M	Φ0.25		
		RFRE-410-I	1M			
		RFRE-410-S	1M			
	90°漫反射 Diffuse reflection	RFRS-410-F	1M	Φ0.5		
	90°同轴漫反射Coaxial diffuse reflection	RFRC-410-F	1M	Φ0.5x9x0.25		
	同轴漫反射Coaxial diffuse reflection	RFRC-410	1M			
	对射Throughbeam	对射Throughbeam	RFRC-410-I	1M	Φ0.5	
			RFT-410	1M		
RFT-410-I			1M			
RFT-410-S			1M			
90°对射Throughbeam		RFTS-410	1M	Φ0.5		
		RFTS-410-I	1M			
M6	漫反射Diffuse reflection	RFT-410-F	1M	Φ0.5		
		RFR-610	1M	Φ1.0		
		RFR-610-I	1M			
		RFR-610-S	1M			
		RFR-610-M	1M			
	RFR-610-L	1M				
	90°漫反射 Diffuse reflection	RFR-610-F	1M	Φ1.0x6x0.25		
	90°同轴漫反射Coaxial diffuse reflection	RFRC-610-F	1M			
	同轴漫反射Coaxial diffuse reflection	RFRC-610	1M	Φ1.0		
	对射Throughbeam	RFT-610	1M			
90°对射Throughbeam	RFT-610-F	1M				

# 简易光纤放大器 General Fiber-optic Sensor

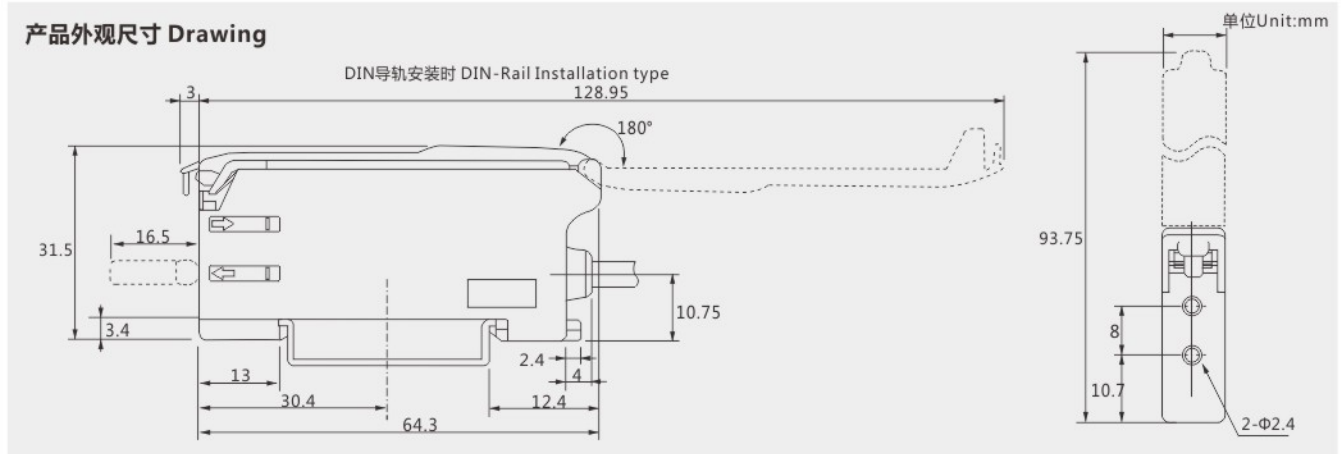
## 回路图 Output Circuits



## 额定规格/性能 Specifications

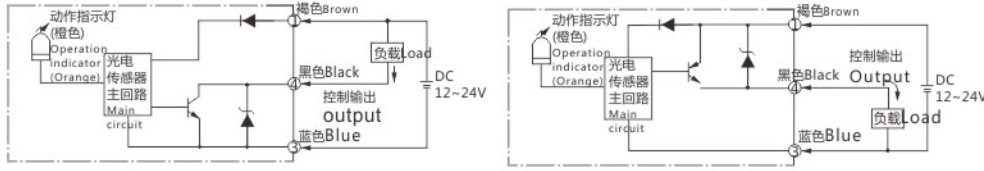
项目 Item	型号 Model	光量条显示&旋钮设定 Light bar display&Knob setting	
	输出方式 output	R3X-NA11	R3X-PA11
光源 Light source (发光波长)		红色4元素发光二极管 Red,4-element LED(625nm)	
电源电压 Voltage		DC12~24V±10% 波动 pulse(p-p)±10% max.	
功耗/电流消耗 Power consumption		35mA Max.(24V DC)	
控制输出 Output		开路集电极输出型 (NPN或PNP) Open-collector output ( NPN或PNP ) 负载电源电压26.4V以下、负载电流50mA以下 ( 残留电压 : 1V以下 ) Load power supply voltage 26.4V max. 、 Load current:50mA max.(Voltage drop:1V max.) 入光时/避光时ON 切换式ON switch mode when in light / dark	
响应时间 Response time		动作、复位 : 各200μs以下 *1 Operate or reset:200μs max.*1	
灵敏度调整 Sensitivity adjustment		8转动全回转旋钮 (带指示器) 8 rotary full turn knob (with indicator)	
保护回路 Protection circuits		电源逆接保护、输出短路保护 Power supply and control output reverse polarity protection, Output short-circuit protection	
定时器功能 Timer function		无定时器 No timer、带有OFF延时定时器 OFF-delay timer 开关切换式 Timer selector ( 定时器时间 timer time : 固定为40ms )	
环境温度 Ambient operating temperature		保存时 preserving : -30~+65°C (无结冰、结露 No ice, dew)	
使用环境照度 Ambient illumination		受光面照度 白炽灯 Incandescent lamp : 10,000lx max. 、太阳光 Sunlight : 20,000lx max.	
保护结构 Enclosure rating		IEC标准 IP50 (保护罩安装时 When the protective cover is installed)	
连接方式 Connection type method		导线引出型 (标准导线长2m) Pre-wired 2m	
产品认证 certificate		CE	

## 产品外观尺寸 Drawing



# 数显光纤放大器 Display Fiber Sensor

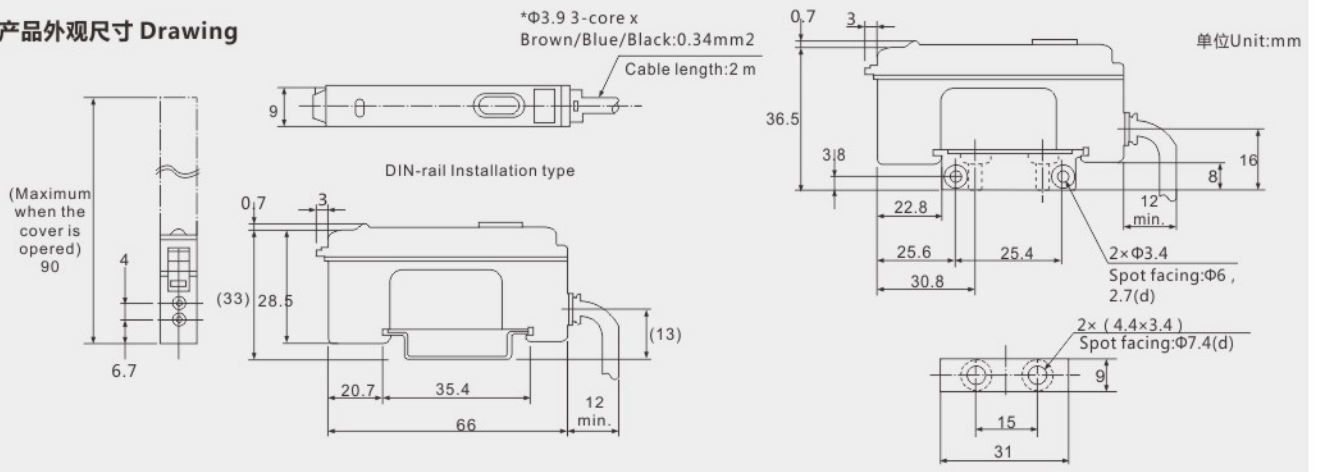
## 回路图Output Circuits



## 额定规格/性能 Specifications

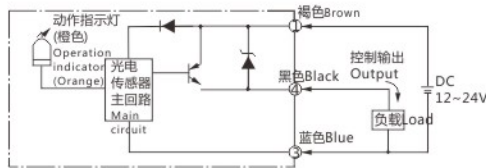
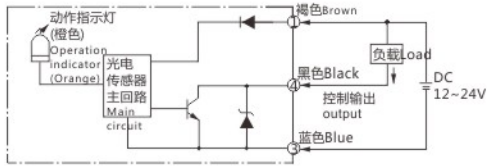
型号 model	NPN	R3X-R4N
	PNP	R3X-R4P
光源 light source	红色LED 波长630nm Red LED wavelength 630nm	
反应时间 reaction time	200s P-1、400 P-2 1.6ms P-3、6.4ms P-4	
输出方式 Output mode	常开常闭 受光模式 LIGHTON、避光模式 Normally open normally closed light mode LIGHTON, dark mode	
保护电路 Protection circuit	极性反接保护 过电流保护 过电压保护 Polarity reverse protection over current protection over voltage protection	
计时器功能 TPIDAR	输出断开计时、输出开启计时、输出单次计时、输出计时关闭 Output off time, the output of the opening time, the output of a single time, the output time off	
计时功能 Timing function	参数初始化/按键锁定/阈值两点/全自动和手动设定 Initialize / lock / two threshold / automatic and manual setting	
实用功能 Practical function	1-9999ms	
电源电压 supply voltage	12-24VDC±10%	
功率消耗 Power consumption	最大20mA Max 20mA	
环境光度 Environmental photometry	白炽灯 最大20000lux 阳光 最大30000lux Incandescent lamp maximum 20000lux sunshine 30000lux	
环境温度 Ambient operating temperature	-20°C至(to)+55°C	
环境湿度 ambient humidity	35至(to)85%RH	
耐震动性 Vibration resistance	10至55Hz 全副1.5mm X、Y、Z轴方向各3次 10 to 55Hz full X Y, 1.5mm, Z axis direction of the 3 times	
外壳材料 housing material	聚碳酸酯 polycarbonate	
产品认证 certificate	<b>CE</b>	

## 产品外观尺寸 Drawing

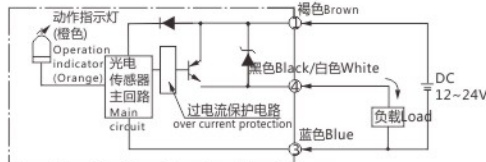
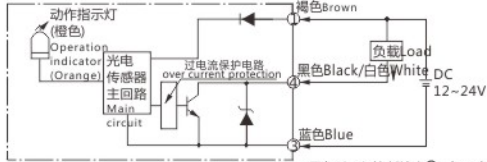


# 数显光纤放大器 Display Fiber Sensor

## 回路图Output Circuits



## 电路图---过电流保护---over current protection



黑色Black:控制输出Output 1  
白色White:控制输出Output 2

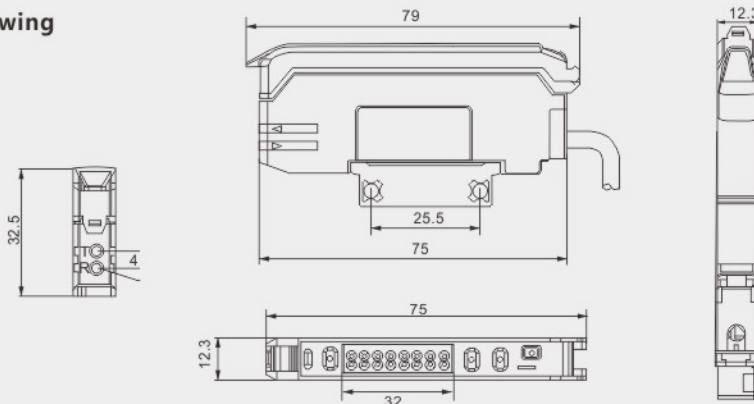
黑色Black:控制输出Output 1  
白色White:控制输出Output 2



## 额定规格/性能 Specifications

型号 model	NPN	R3X-R8N	R3X-R8N-2
	PNP	R3X-R8P	R3X-R8P-2
光源 light source	红色LED 波长630nm Red LED wavelength 630nm		
反应时间 reaction time	200μs ( FINE )、400 ( TURBO ) 800μs ( SUPER )、6.4ms ( ULTUR ) 12.8ms ( P--5 )、25.6ms ( P--6 )		200μs ( P--1 )、400 ( P--2 ) 800μs ( P--3 )、6.4ms ( P--4 ) 12.8ms ( P--5 )、25.6ms ( P--6 )
输出方式 Output mode	常开常闭 受光模式 LIGHTON、避光模式 Normally open normally closed light mode LIGHTON, dark mode		
保护电路 Protection circuit	极性反接保护 过电流保护 过电压保护 Polarity reverse protection over current protection over voltage protection		
计时器功能 TPIDAR	输出断开计时、输出开启计时、输出单次计时、输出计时关闭 Output off time, the output of the opening time, the output of a single time, the output time off		
计时功能 Timing function	参数初始化/按键锁定/阈值两点/全自动和手动设定 Initialize / lock / two threshold / automatic and manual setting		
实用功能 Practical function	1-9999ms		
高级功能 Advanced function	发光功率和阈值同步调节、逻辑输出 Luminous power and threshold Synchronous adjustment, Logic output		
电源电压 supply voltage	12-24VDC±10%		
功率消耗 Power consumption	最大20mA Max 20mA		
环境光度 Environmental photometry	白炽灯 最大20000lux 阳光 最大30000lux Incandescent lamp maximum 20000lux sunshine 30000lux		
环境温度 Ambient operating temperature	-20℃至(to)+55℃		
环境湿度 ambient humidity	35至(to)85%RH		
耐震动性 Vibration resistance	10至55Hz 全副1.5mm X、Y、Z轴方向各3次 10 to 55Hz full X Y, 1.5mm, Z axis direction of the 3 times		
外壳材质 Shell materia	聚碳酸酯 polycarbonate		
产品认证 certificate	CE		

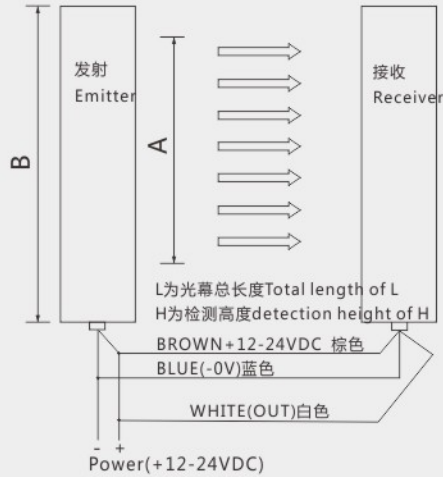
## 产品外观尺寸 Drawing



单位Unit:mm

## 通用型区域光栅 General Purpose Light Curtain

接线示意图 Connection diagram



### 额定规格/性能 Specifications

光轴间距 Beam gap	10mm	20mm	40mm
工作电压 power supply voltage	12/24VDC(±10%)		
消耗电流 Consumption current	150mA		
指向角 Direction angle	0-15度 (1M时)		
对射距离 Operating range	0.3-3M		
红外管数 Number of beams	8-128	4-72	4-44
响应时间 Response time	≤20ms		
返回时间 Return time	≤20ms		
动作指示 Indicators	LED (红-指示, 绿-工作)		
绝缘电阻 Insulation resistance	10MΩ		
耐压 Voltage resistance	500V		
输出方式 Output	NPN NO NC/PNP NO NC		
最小检测物 Minimum detection object	Φ15非透明体 opaque object	Φ25非透明体 opaque object	Φ45非透明体 opaque object
检测距离 sensing range	0.3-2.5M /0.5-5M		
防护等级 Degree of protection	IP44		
环境温度 Ambient temperature	-20-+70度		
外壳材质 Shell material	铝合金/ABS Aluminum extruded profile		
接线方式 Connection	插件 Plug-in unit		
负载电流 Output Current	200MA/24VDC		
产品认证 certificate	CE		

注：特殊距离可根据客户要求定制 Note: special distance can be customized according to customer requirements.

## 通用型区域光栅 General Purpose Light Curtain

本产品生产的红外线光幕采用编码扫描工作方式，本技术填补了国内保护器工作方式的空白。

This product is produced by using infrared screen encoding scanning mode, this technology to fill the gaps in the work of the domestic protection.

它具有抗干扰能力强，上机按照调试方便，外型美观，广泛用于冲床、锻压机械、切纸机械、塑料机械、禁区、危险区域等安全检测。

It has strong anti-interference ability, computer in accordance with convenient debugging, appearance, widely used in punching, forging machine, paper cutting machinery, plastics machinery, the forbidden area, the risk area, etc. safety testing.

1、结构简单紧凑适用性强，各类机床均可配套使用；

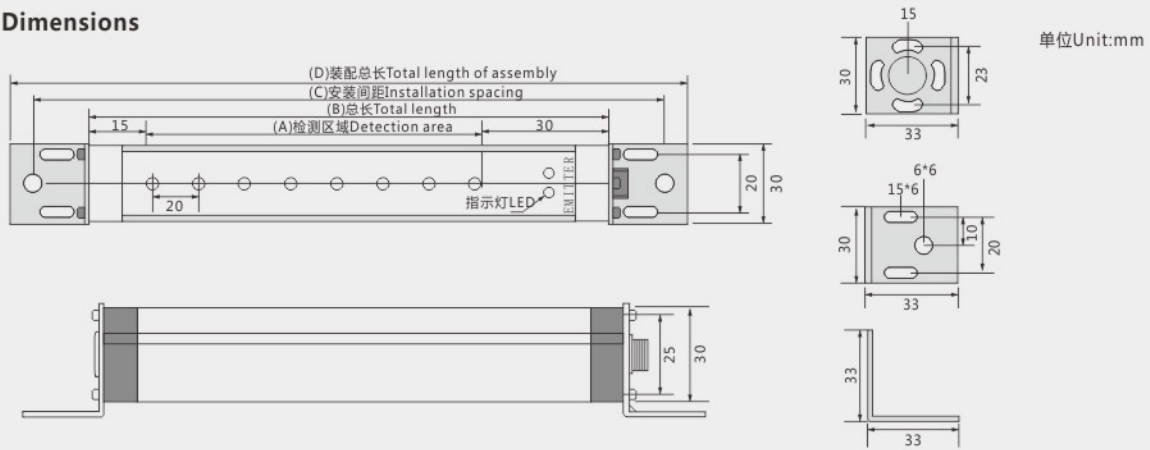
1、 simple and compact structure, strong applicability, all types of machine tools can be used;

2、采用编码技术，有完善的同步跟踪自控功能；2, using the coding technology, there are perfect synchronization tracking control function;

3、有失电保护功能；3, there is loss of protection function;

4、外型美观体积小耗能低安全方便。4, beautiful appearance, small size, low energy consumption, safety and convenience.

### 产品外型尺寸 Dimensions



### 产品选型表 Product selection table

型号 Model	输出方式 Output	光轴数 Number of beams	保护高度 Protective height	外型尺寸 Dimensions
R10-08(N/P)	(NPN/PNP)	8	70	30×30×110
R10-12(N/P)	(NPN/PNP)	12	110	30×30×150
R10-16(N/P)	(NPN/PNP)	16	150	30×30×190
R10-20(N/P)	(NPN/PNP)	20	190	30×30×230
R10-24(N/P)	(NPN/PNP)	24	230	30×30×270
R10-28(N/P)	(NPN/PNP)	28	270	30×30×310
R10-32(N/P)	(NPN/PNP)	32	310	30×30×350
R10-36(N/P)	(NPN/PNP)	36	350	30×30×390
R10-48(N/P)	(NPN/PNP)	48	470	30×30×510
R10-64(N/P)	(NPN/PNP)	64	630	30×30×670
R10-72(N/P)	(NPN/PNP)	72	710	30×30×750
R10-80(N/P)	(NPN/PNP)	80	790	30×30×830
R10-88(N/P)	(NPN/PNP)	88	870	30×30×910
R10-96(N/P)	(NPN/PNP)	96	950	30×30×990
R10-112(N/P)	(NPN/PNP)	112	1100	30×30×1140
R10-128(N/P)	(NPN/PNP)	128	1270	30×30×1310

注：光轴间距10MM 最小检测物体 15MM Note: Beam gap 10MM, Minimum detection object 15MM

检测距离sensing range 0.3-2.5M /0.5-5M(距离可根据客户要求定制sensing range can be customized according to customer requirements)

连接类型Connetor type: M12航空插件Connetor 发射2芯 接收3芯Emitter 2line, Receiver 3line/直接出线Cable NPN NO/NC PNP NO/NC

## 通用型区域光栅 General Purpose Light Curtain

产品选型表Product selection table

型号 Model	输出方式 Output	光轴数 Number of beams	保护高度 Protective height (A)	外型尺寸 Dimensions(B)
R20-04(N/P)	(NPN/PNP)	4	60	30×30×110
R20-06(N/P)	(NPN/PNP)	6	100	30×30×150
R20-08(N/P)	(NPN/PNP)	8	140	30×30×190
R20-12(N/P)	(NPN/PNP)	12	220	30×30×270
R20-16(N/P)	(NPN/PNP)	16	300	30×30×350
R20-20(N/P)	(NPN/PNP)	20	380	30×30×430
R20-24(N/P)	(NPN/PNP)	24	460	30×30×510
R20-28(N/P)	(NPN/PNP)	28	540	30×30×590
R20-32(N/P)	(NPN/PNP)	32	620	30×30×670
R20-36(N/P)	(NPN/PNP)	36	700	30×30×750
R20-48(N/P)	(NPN/PNP)	48	940	30×30×990
R20-52(N/P)	(NPN/PNP)	52	1020	30×30×1070
R20-56(N/P)	(NPN/PNP)	56	1100	30×30×1150
R20-64(N/P)	(NPN/PNP)	64	1260	30×30×1310
R20-70(N/P)	(NPN/PNP)	70	1380	30×30×1430
R20-72(N/P)	(NPN/PNP)	72	1420	30×30×1470

注:光轴间距20MM 最小检测物体25MM Note: Beam gap 20MM, Minimum detection object 25MM

检测距离sensing range 0.3-2.5M /0.5-5M(距离可根据客户要求定制sensing range can be customized according to customer requirements)

连接类型Connetor type: M12航空插件Connetor 发射2芯 接收3芯Emitter 2line, Receiver 3line/直接出线Cable NPN NO/NC PNP NO/NC

产品选型表Product selection table

型号 Model	输出方式 Output	光轴数 Number of beams	保护高度 Protective height (A)	外型尺寸 Dimensions(B)
R40-04(N/P)	(NPN/PNP)	4	120	30×30×190
R40-06(N/P)	(NPN/PNP)	6	200	30×30×270
R40-08(N/P)	(NPN/PNP)	8	280	30×30×350
R40-10(N/P)	(NPN/PNP)	10	360	30×30×430
R40-12(N/P)	(NPN/PNP)	12	440	30×30×510
R40-14(N/P)	(NPN/PNP)	14	520	30×30×590
R40-16(N/P)	(NPN/PNP)	16	600	30×30×670
R40-18(N/P)	(NPN/PNP)	18	680	30×30×750
R40-20(N/P)	(NPN/PNP)	20	760	30×30×830
R40-24(N/P)	(NPN/PNP)	24	920	30×30×990
R40-28(N/P)	(NPN/PNP)	28	1080	30×30×1150
R40-30(N/P)	(NPN/PNP)	30	1160	30×30×1230
R40-32(N/P)	(NPN/PNP)	32	1240	30×30×1310
R40-36(N/P)	(NPN/PNP)	36	1400	30×30×1470
R40-40(N/P)	(NPN/PNP)	40	1560	30×30×1630
R40-44(N/P)	(NPN/PNP)	44	2520	30×30×1790

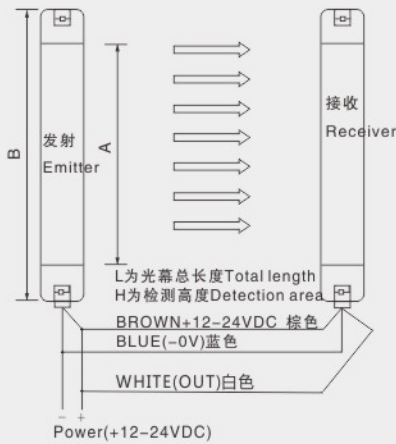
注:光轴间距40MM 最小检测物体45MM Note: Beam gap 40MM, Minimum detection object 45MM

检测距离sensing range 0.3-2.5M /0.5-5M(距离可根据客户要求定制sensing range can be customized according to customer requirements)

连接类型Connetor type: M12航空插件Connetor 发射2芯 接收3芯Emitter 2line, Receiver 3line/直接出线Cable NPN NO/NC PNP NO/NC

# 超薄型区域光栅 Ultra-thin Light Curtain

接线示意图connection diagram



## 额定规格/性能 Specifications

型号Model	RA20系列
输出方式Output	NPN/PNP
光轴数Number of beams	8.12.16.20.24.28.32.36
光轴间距Beam gap	20mm
最小检测物Minimum detection object	不透明物体opaque object Ø25mm
保护高度Protective height	140mm-780mm
安装距离Installation distance	标准范围Standard range ; 0.1m~1.6m&长范围Long range : 0.2~3.m(可选择 )
工作电压power supply voltage	24±10%VDC;波动Ripple±10% p-p max
消耗电流Consumption current	60mA max
最大输出电流Output Current	12光轴以下100mA,12光轴以上最大200mA
输出状态Output	所有光轴灯亮All light channel light NO
保护功能 Protection	短路保护&极性保护 Short circuit & polarity reversed protection
反应时间Response time	10ms max
复位时间Reset time	复位时间 Output reset time < 20ms
使用环境照度Ambient operating light intensity	白炽灯Lamp < 10,000 LUX ; 太阳光Sunlight < 20,000 LUX
保护等级Degree of protection	IP65
接线方式Connection	发射Tx:3c-4Ø-3m;接受Rx:4c-4Ø-3m
外壳材质Shell material	铝合金/ABS :Aluminum extruded profile
环境温度Ambient temperature	0°C~50°C(注意不可结露或结冰)
环境湿度Ambient humidity	25%~85% RH
产品认证 certificate	CE

## 超薄型区域光栅 Ultra-thin Light Curtain

产品选型表 Product selection table

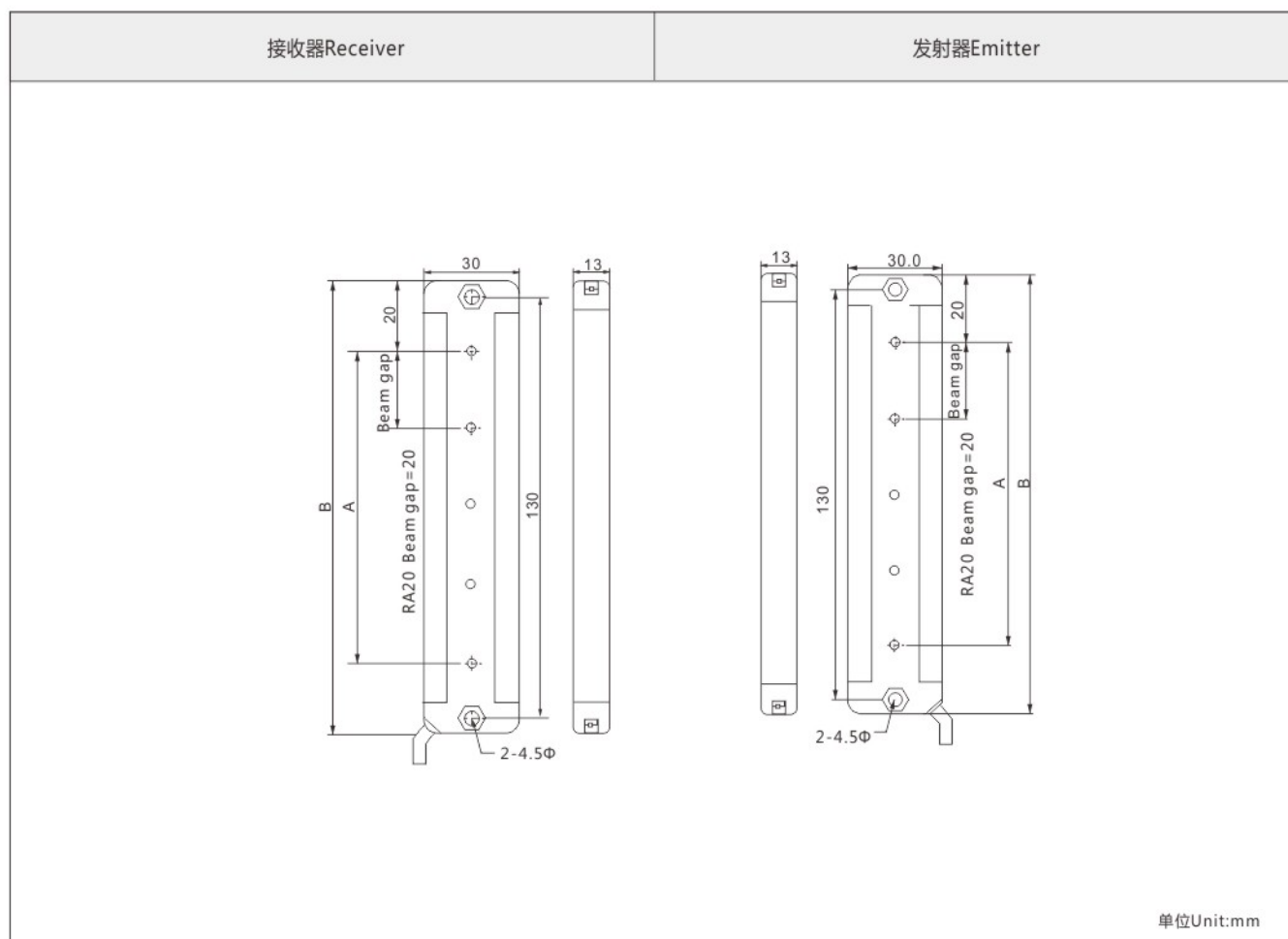
型号 Model	输出方式 Output	光轴数 Number of beams	保护高度 Protective height (A)	外型尺寸 Dimensions(B)
RA20-08(N/P)	(NPN/PNP)	8	140	12×30×190
RA20-12(N/P)	(NPN/PNP)	12	220	12×30×270
RA20-16(N/P)	(NPN/PNP)	16	300	12×30×350
RA20-20(N/P)	(NPN/PNP)	20	380	12×30×430
RA20-24(N/P)	(NPN/PNP)	24	460	12×30×510
RA20-28(N/P)	(NPN/PNP)	28	540	12×30×590
RA20-32(N/P)	(NPN/PNP)	32	600	12×30×650
RA20-36(N/P)	(NPN/PNP)	36	700	12×30×750

注:光轴间距20MM 最小检测物体25MM Note: Beam gap 20MM, Minimum detection object 25MM

检测距离sensing range 0.2-1.6M /0.2-3M(距离可根据客户要求定制sensing range can be customized according to customer requirements)

输出方式OUTPUT:Cable NPN NO/NC PNP NO/NC

### 产品外观尺寸 Drawing



# 磁性开关 Magnetic sensor

二线式 2Wires  
三线式 3Wires

## 产品规格 Specification

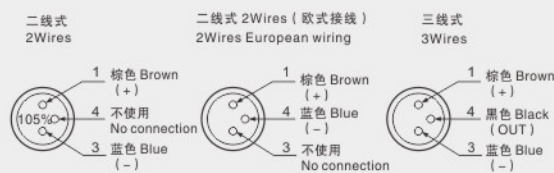
项目/型号 Project/Model	RS1-G	RS1-GD	RS1-GN	RS1-GP
配线方式 Wiring method	2线式 2Wires		3线式 3Wires	
开关逻辑 Switch logic	SPST常开型 Normally open		电子式无接点/常开型 E-free contacts: Normally open	
输出接点型式 Sensor switch type	有接点干簧管型 There reed tube contacts	无接点型 Non-contact	无接点NPN型 Non-contact NPN	无接点PNP型 Non-contact PNP
使用电压范围 Voltage Range	5~240VDC/AC		10~28VDC	
最大开关电流 Maximum switching current	100mA max.		50mA max.	
接点容量 Maximum contact capacity	10W max.		1.5W max.	
内部消耗电流 Internal current consumption	-		40μA max@24V	
内部电压降 Residual pressure drop	2.5Vmax @ 100 mA DC		2.6V max@50mA DC	
漏电流 Leakage current	-		90μA max@28V	
指示灯颜色 Indicator	红色(RED) LED		红色(RED) LED	绿色(Green) LED
开关感度 (※1) Switch sensitivity	50G		45G~750G	
最大切换频率 Maximum switching frequency	200Hz		1000Hz	
使用温度范围 Operating temperature range	-10~70°C		-10~70°C	
耐冲击 (※2) Impact resistance	30G		50G	
耐震动 (※3) Vibration resistance			9G	
保护构造等级 Waterproof	IEC 529 IP67(NEMA 6)			
保护回路 (※4) Protection circuit	1		3, 4	
电线 cable	2.8Φ、3C, 黑色耐油PVC(可定做带航插) 2.8Φ、3C, oil resistant Black PVC(Customized with Male Connector)			

- ※: 1.测量使用之标准磁石: Φ15.5×Φ8×5t(异性橡胶磁石), 单位: 高斯;  
2.正弦波/X、Y、Z轴向/每一轴向3回/每一回时间11ms;  
3.复振幅1.5mm/10Hz~55Hz扫频, 持续一分钟/每次X、Y、Z轴向操作1小时;  
4.1=无/2=输出短路保护/3=电源逆接保护/4=突波吸收保护。

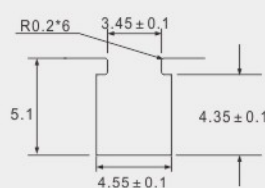
- ※: 1. Standard magnet for measurement: Φ15.5 × Φ8 × 5t (Anisotropic rubber magnet), Unit: Gauss;  
2. Sine wave / X, Y, Z3 axial / axial 3 / every time 11ms;  
3. Complex amplitude 1.5mm/10Hz~55Hz Sweep, Last minute / Each X, Y, Z axial operation 1 hours;  
4. 1=NO/2=Output short circuit protection/3=Power reverse polarity protection/4=surge absorption protection。



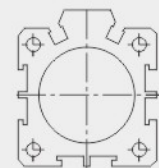
### M8公头接线图 M8 Male Connector



### 沟槽尺寸图 Cylinder Sketch(mm)



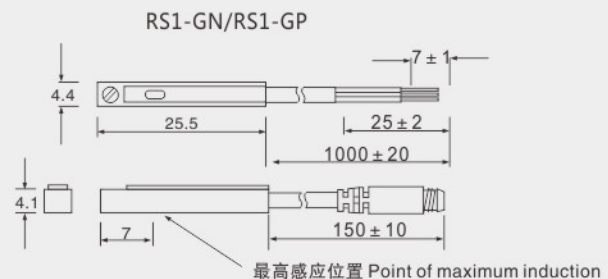
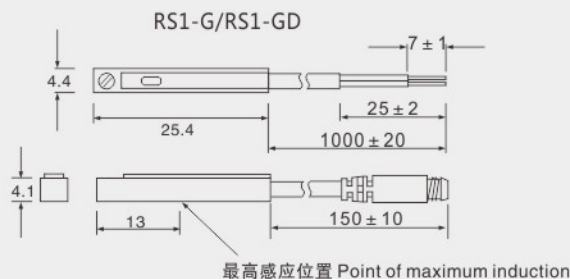
### 气缸结构图 Cylinder Sketch



适用于: 亚德客(CDA方形沟槽SDA系列)

For cylinder: AirTAC (CDA Square groove SDA series)

### 产品尺寸图 Dimensions(mm)



# 磁性开关 Magnetic sensor

二线式 2Wires  
三线式 3Wires

## 产品规格 Specification

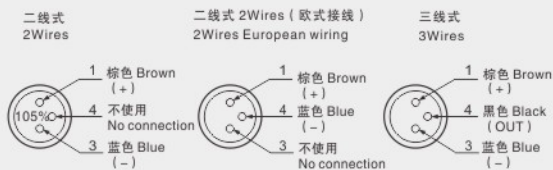
项目/型号Project/Model	RS1-S	RS1-SB	RS1-SD	RS1-SN	RS1-SP
配线方式Wiring method	2线式 2Wires		3线式 3Wires		
开关逻辑Switch logic	SPST常开型 Normally open	NC常闭型 normally closed	电子式无接点/常开型 E-free contacts:Normally open		
输出接点型式Sensor switch type	有接点干簧管型 There reed tube contacts		无接点型 Non-contact	无接点NPN型 Non-contact NPN	无接点PNP型 Non-contact PNP
使用电压范围Voltage Range	5~240VDC/AC	5~120VDC/AC	10~28VDC	5~30VDC	
最大开关电流Maximum switching current	100mA max.		50mA max.	200mA max.	
接点容量Maximum contact capacity	10W max.		1.5W max.	6W max.	
内部消耗电流Internal current consumption	无		40μA max@24V	8mA max@ 24V DC(Switch Active)	
内部电压降Residual pressure drop	3Vmax @ 100 mA DC		3.5Vmax.@500mA	1Vmax.@400mA	
漏电流Leakage current	无		90μA max@28V	0.01mA max	
指示灯颜色Indicator	红色(RED) LED	绿色(Green)LED	红色(RED) LED	红色(RED) LED	绿色(Green)LED
开关感度 (※1) Switch sensitivity	50G		45G~750G		
最大切换频率Maximum switching frequency	200Hz		1000Hz		
使用温度范围Operating temperature range	-10~70°C		-10~70°C		
耐冲击 (※2) Impact resistance	30G		50G		
耐震动 (※3) Vibration resistance	9G				
保护构造等级Waterproof	IEC 519 IP67(NEMA 6)				
保护回路 (※4) Protection circuit	1		2, 4	3, 4	
电线Cable	2.8Φ、3C, 黑色耐油PVC(可定做带航插) 2.8Φ、3C, oil resistant Black PVC(Customized with Male Connector)				

- ※: 1.测量使用之标准磁石:  $\Phi 15.5 \times \Phi 8 \times 5t$ (异性橡胶磁石), 单位: 高斯;
- 2.正弦波/X、Y、Z3轴向/每一轴向3回/每一回时间11ms;
- 3.复振幅1.5mm/10Hz~55Hz扫频, 持续一分钟/每次X、Y、Z轴向操作1小时;
- 4.1=无/2=输出短路保护/3=电源逆接保护/4=突波吸收保护。

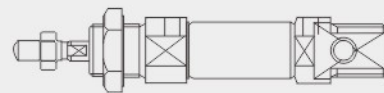
- ※: 1.Standard magnet for measurement:  $\Phi 15.5 \times \Phi 8 \times 5t$ (Anisotropic rubber magnet), Unit: Gauss;
- 2.Sine wave /X, Y, Z3 axial / axial 3 / every time 11ms;
- 3.Complex amplitude 1.5mm/10Hz~55Hz Sweep, Last minute /Each X, Y, Z axial operation 1 hours;
- 4.1=NO/2=Output short circuit protection/3=Power reverse polarity protection/4=surge absorption protection.



### M8公头接线图 M8 Male Connector

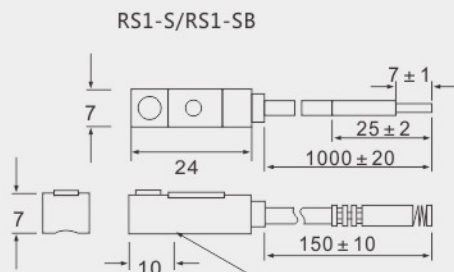


### 气缸结构图 Cylinder Sketch

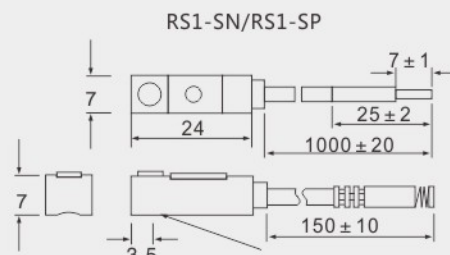


适用于: 亚德客、SMC、气立可、长拓、全器 (6Φ-63Φ圆形气缸)  
通用亚德客型号: CS1-S  
For cylinder: AirTAC, SMC, Chelic, CHANTO, MINDMAN (6Φ-63Φ circular cylinder)  
Applies: AirTAC CS1-S

### 产品尺寸图 Dimensions(mm)



最高感应位置 Point of maximum induction



最高感应位置 Point of maximum induction

# 磁性开关 Magnetic sensor

二线式 2Wires  
三线式 3Wires

## 产品规格 Specification

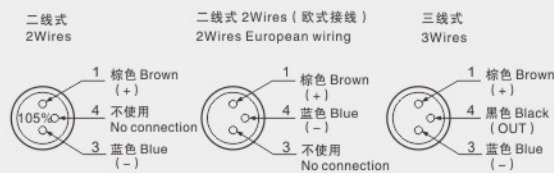
项目/型号 Project/Model	RS1-A93	RS1-A93D	RS1-A93N	RS1-A93P
配线方式 Wiring method	2线式 2Wires		3线式 3Wires	
开关逻辑 Switch logic	SPST常开型 Normally open		电子式无接点/常开型 E-free contacts: Normally open	
输出接点型式 Sensor switch type	有接点干簧管型 There reed tube contacts	无接点型 Non-contact	无接点NPN型 Non-contact NPN	无接点PNP型 Non-contact PNP
使用电压范围 Voltage Range	5~240VDC/AC	10~28VDC	5~30VDC	
最大开关电流 Maximum switching current	100mA max.	4-40mA max.	200mA max.	
接点容量 Maximum contact capacity	10W max.	1.5W max.	6W max.	
内部消耗电流 Internal current consumption	-	40μA max@24V	8mA max@ 24V DC (Switch Active)	
内部电压降 Residual pressure drop	2.5Vmax	2.65Vmax.	1Vmax.@200mA	
漏电流 Leakage current	-	90μA max@28V	0.01mA max	
指示灯颜色 Indicator	红色 (RED) LED		红色 (RED) LED	绿色 (Green) LED
开关感度 (※1) Switch sensitivity	70G	40G~750G		
最大切换频率 Maximum switching frequency	200Hz	1000Hz		
使用温度范围 Operating temperature range	-10~70°C		-10~70°C	
耐冲击 (※2) Impact resistance	30G	50G		
耐震动 (※3) Vibration resistance	9G			
保护构造等级 Waterproof	IEC 529 IP67 (NEMA 6)			
保护回路 (※4) Protection circuit	1	2, 4	3, 4	
电线 cable	2.6Φ、3C, 黑色耐油PVC(可定做带航插) 2.6Φ、3C, oil resistant Black PVC (Customized with Male Connector)			

- ※: 1. 测量使用之标准磁石:  $\Phi 15.5 \times \Phi 8 \times 5t$  (异性橡胶磁石), 单位: 高斯;  
 2. 正弦波/X、Y、Z3轴向/每一轴向3回/每一回时间11ms;  
 3. 复振幅1.5mm/10Hz~55Hz扫频, 持续一分钟/每次X、Y、Z轴向操作1小时;  
 4. 1=无/2=输出短路保护/3=电源逆接保护/4=突波吸收保护。

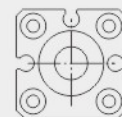
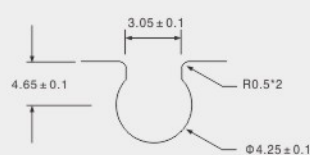
- ※: 1. Standard magnet for measurement:  $\Phi 15.5 \times \Phi 8 \times 5t$  (Anisotropic rubber magnet), Unit: Gauss;  
 2. Sine wave /X, Y, Z3 axial / axial 3 / every time 11ms;  
 3. Complex amplitude 1.5mm/10Hz~55Hz Sweep, Last minute /Each X, Y, Z axial operation 1 hours;  
 4. 1=NO/2=Output short circuit protection/3=Power reverse polarity protection/4=surge absorption protection。



### M8公头接线图 M8 Male Connector

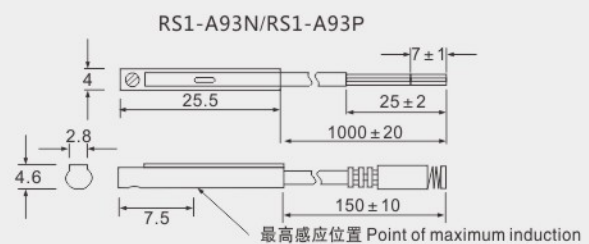
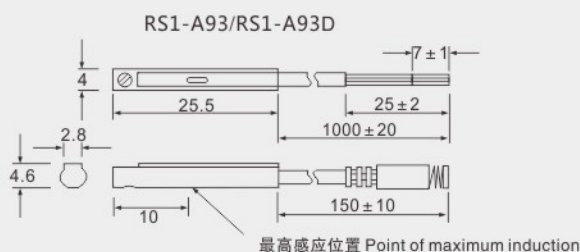


### 沟槽尺寸图 Cylinder Sketch(mm) 气缸结构图 Cylinder Sketch



适用于: 4Φ SMC、气立可、长拓沟槽  
 通用SMC型号: D-A93 通用亚德客型号: CS1-H  
 For cylinder: 4Φ SMC、Chelic、CHANTO Groove  
 Applies: SMC D-A93、AirTAC CS1-H

### 产品尺寸图 Dimensions(mm)



# 磁性开关 Magnetic sensor

二线式 2Wires  
三线式 3Wires

## 产品规格 Specification

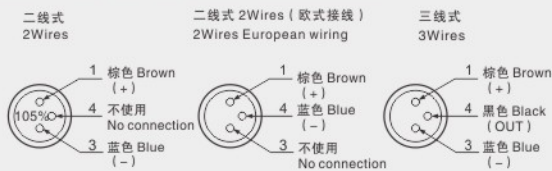
项目/型号 Project/Model	RS1-A73	RS1-A73B	RS1-A73D	RS1-A73N	RS1-A73P
配线方式 Wiring method	2线式 2Wires			3线式 3Wires	
开关逻辑 Switch logic	SPST常开型 Normally open	NC常闭型 normally closed	电子式无接点/常开型 E-free contacts: Normally open		
输出接点型式 Sensor switch type	有接点干簧管型 There reed tube contacts		无接点型 Non-contact	无接点NPN型 Non-contact NPN	无接点PNP型 Non-contact PNP
使用电压范围 Voltage Range	5~240VDC/AC	5~120VDC/AC	10~28VDC	5~30VDC	
最大开关电流 Maximum switching current	100mA max.		50mA max.	200mA max.	
接点容量 Maximum contact capacity	10W max.		1.5W max.	6W max.	
内部消耗电流 Internal current consumption	-		40μA max@24V	20mA max@24V DC (Switch Active)	
内部电压降 Residual pressure drop	2.5Vmax @ 100 mA DC		2.6Vmax.@50mA	0.5Vmax.@400mA	
漏电流 Leakage current	-		90μA max@28V	0.01mA max	
指示灯颜色 Indicator	红色 (RED) LED	绿色 (Green) LED	红色 (RED) LED	红色 (RED) LED	绿色 (Green) LED
开关感度 (※1) Switch sensitivity	40G~50G		40G~750G		
最大切换频率 Maximum switching frequency	200Hz		1000Hz		
使用温度范围 Operating temperature range	-10~70°C		-10~70°C		
耐冲击 (※2) Impact resistance	30G		50G		
耐震动 (※3) Vibration resistance	9G				
保护构造等级 Waterproof	IEC 529 IP67 (NEMA 6)				
保护回路 (※4) Protection circuit	1		2, 4		3, 4
电线 cable	3.2Φ、3C, 黑色耐油PVC(可定做带航插) 3.2Φ、3C, oil resistant Black PVC (Customized with Male Connector)				

- ※1. 测量使用之标准磁石:  $\Phi 15.5 \times \Phi 8 \times 5t$  (异性橡胶磁石), 单位: 高斯;
- 2. 正弦波/X、Y、Z3轴向/每一轴向3回/每一回时间11ms;
- 3. 复振幅1.5mm/10Hz~55Hz扫频, 持续一分钟/每次X、Y、Z轴向操作1小时;
- 4. 1=无/2=输出短路保护/3=电源逆接保护/4=突波吸收保护。

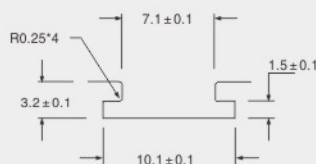
- ※1. Standard magnet for measurement:  $\Phi 15.5 \times \Phi 8 \times 5t$  (Anisotropic rubber magnet), Unit: Gauss;
- 2. Sine wave / X, Y, Z3 axial / every time 11ms;
- 3. Complex amplitude 1.5mm/10Hz~55Hz Sweep, Last minute / Each X, Y, Z axial operation 1 hours;
- 4. 1=NO/2=Output short circuit protection/3=Power reverse polarity protection/4=surge absorption protection.



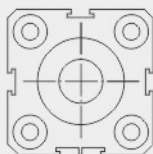
### M8公头接线图 M8 Male Connector



### 沟槽尺寸图 Cylinder Sketch (mm)

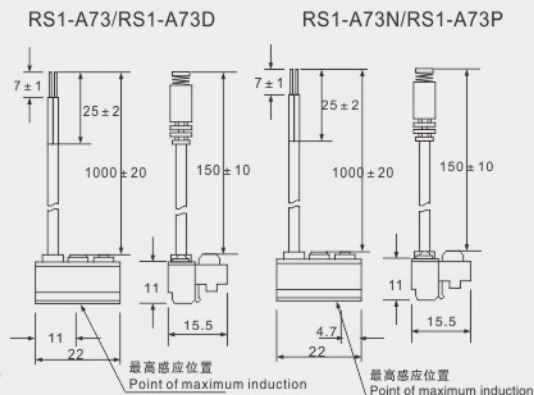


### 气缸结构图 Cylinder Sketch



适用于: 亚德客、气立可、长拓、金器沟槽  
通用亚德客型号: CS1-J  
For cylinder: AirTAC, Chelic, CHANTO, MINDMAN Groove  
Applies: AirTAC CS1-J

### 产品尺寸图 Dimensions (mm)



# 磁性开关 Magnetic sensor

二线式 2Wires  
三线式 3Wires

## 产品规格 Specification

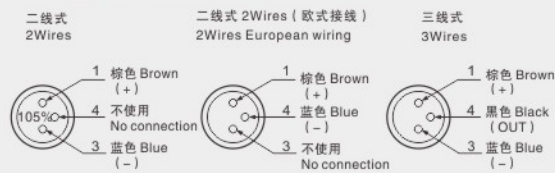
项目/型号 Project/Model	RS1-F	RS1-FB	RS1-FD	RS1-FN	RS1-FP
配线方式 Wiring method	2线式 2Wires			3线式 3Wires	
开关逻辑 Switch logic	SPST常开型 Normally open	NC常闭型 normally closed	电子式常开型 E-free contacts: open	电子式无接点/常开型 E-free contacts: Normally open	
输出接点型式 Sensor switch type	有接点簧管型 There reed tube contacts		无接点 Non-contact	无接点NPN型 Non-contact NPN	无接点PNP型 Non-contact PNP
使用电压范围 Voltage Range	5~240VDC/AC	5~120VDC/AC	5~30VDC	5~30VDC	
最大开关电流 Maximum switching current	100mA max.		50mA max.	200mA max.	
接点容量 Maximum contact capacity	10W max.		1.5W max.	6W max.	
内部消耗电流 Internal current consumption	-		40μA max@24V	20mA max@ 24V DC (Switch Active)	
内部电压降 Residual pressure drop	3.0Vmax @ 100 mA DC		2.65Vmax.@50mA	1.5Vmax.@400mA	
漏电流 Leakage current	-		90μA max@28V	0.01mA max	
指示灯颜色 Indicator	红色 (RED) LED	绿色 (Green) LED	红色 (RED) LED	红色 (RED) LED	绿色 (Green) LED
开关感度 (※1) Switch sensitivity	55G~65G		40G~750G		
最大切换频率 Maximum switching frequency	200Hz		1000Hz		
使用温度范围 Operating temperature range	-10~70°C		-10~70°C		
耐冲击 (※2) Impact resistance	30G		50G		
耐震动 (※3) Vibration resistance	9G				
保护构造等级 Waterproof	IEC 529 IP67 (NEMA 6)				
保护回路 (※4) Protection circuit	1		2, 4	3, 4	
电线 cable	3.8Φ、3C, 黑色耐油PVC(可定做带航插) 3.8Φ、3C, oil resistant Black PVC (Customized with Male Connector)				

- ※: 1.测量使用之标准磁石: Φ15.5×Φ8×5t(异性橡胶磁石), 单位: 高斯;  
2.正弦波/X、Y、Z3轴向/每一轴向3回/每一回时间11ms;  
3.复振幅1.5mm/10Hz~55Hz扫频, 持续一分钟/每次X、Y、Z轴向操作1小时;  
4.1=无/2=输出短路保护/3=电源逆接保护/4=突波吸收保护。

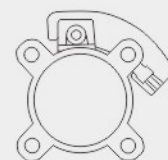
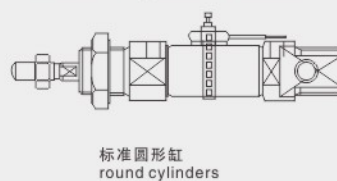
- ※: 1. Standard magnet for measurement: Φ15.5×Φ8×5t (Anisotropic rubber magnet), Unit: Gauss;  
2. Sine wave /X, Y, Z3 axial / axial 3 / every time 11ms;  
3. Complex amplitude 1.5mm/10Hz~55Hz Sweep, Last minute /Each X, Y, Z axial operation 1 hours;  
4. 1=NO/2=Output short circuit protection/3=Power reverse polarity protection/4=surge absorption protector



### M8公头接线图 M8 Male Connector

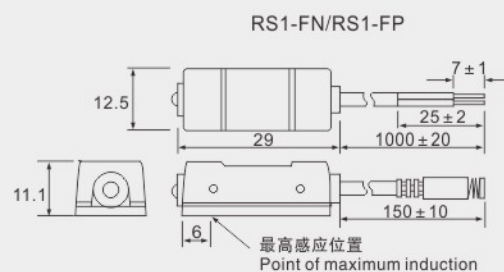
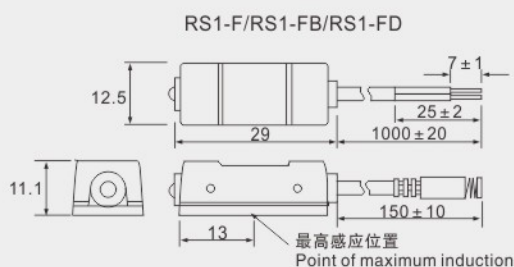


### 气缸结构图 Cylinder Sketch



适用于: 适用于ISO米型缸、标准圆形缸和标准拉杆缸气缸  
通用其他型号: 亚德客CS1-F、气立可CS-100、长拓CS-22等  
For cylinder: M-type Cylinders, round cylinders, rod cylinders  
Applies: AirTAC CS1-F, Chelic CS-100, CHANTO CS-22

### 产品尺寸图 Dimensions (mm)



# 磁性开关 Magnetic sensor

二线式 2Wires  
三线式 3Wires

## 产品规格 Specification

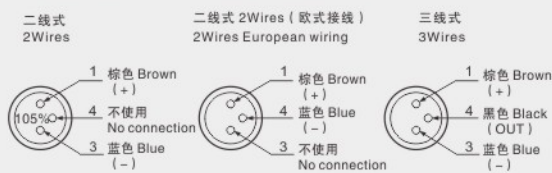
项目/型号Project/Model	RS1-U	RS1-UB	RS1-UD	RS1-UN	RS1-UP
配线方式Wiring method	2线式 2Wires			3线式 3Wires	
开关逻辑Switch logic	SPST常开型 Normally open	NC常闭型 normally closed	电子式常开型 E-free contacts: open	电子式无接点/常开型 E-free contacts:Normally open	
输出接点型式Sensor switch type	有接点干簧管型 There reed tube contacts		无接点型 Non-contact	无接点NPN型 Non-contact NPN	无接点PNP型 Non-contact PNP
使用电压范围Voltage Range	5~240VDC/AC	5~120VDC/AC	5~30VDC	5~30VDC	
最大开关电流Maximum switching current	100mA max.		50mA max.	200mA max.	
接点容量Maximum contact capacity	10W max.		1.5W max.	6W max.	
内部消耗电流Internal current consumption	-		40μA max@24V	20mA max@ 24V DC(Switch Active)	
内部电压降Residual pressure drop	3.0Vmax @ 100 mA DC		0.1Vmax.@500mA	1.5Vmax.@400mA	
漏电流Leakage current	-		90μA max@28V	0.01mA max	
指示灯颜色Indicator	红色(RED) LED	绿色(Green)LED	红色(RED) LED	红色(RED) LED	绿色(Green)LED
开关感度 (※1) Switch sensitivity	55G~65G		40G~750G		
最大切换频率Maximum switching frequency	200Hz		1000Hz		
使用温度范围Operating temperature range	-10~70°C		-10~70°C		
耐冲击 (※2) Impact resistance	30G		50G		
耐震动 (※3) Vibration resistance	9G				
保护构造等级Waterproof	IEC 529 IP67(NEMA 6)				
保护回路 (※4) Protection circuit	1		2, 4	3, 4	
电线cable	3.8Φ、3C, 黑色耐油PVC(可定做带航插) 3.8Φ、3C, oil resistant Black PVC(Customized with Male Connector)				

- ※: 1.测量使用之标准磁石: Φ15.5×Φ8×5t(异性橡胶磁石), 单位: 高斯;  
2.正弦波/X、Y、Z3轴向/每一轴向3回/每一回时间11ms;  
3.复振幅1.5mm/10Hz~55Hz扫频, 持续一分钟/每次X、Y、Z轴向操作1小时;  
4.1=无/2=输出短路保护/3=电源逆接保护/4=突波吸收保护。

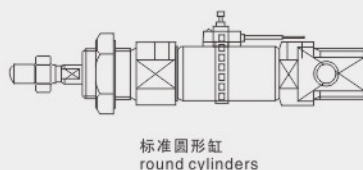
- ※: 1.Standard magnet for measurement: Φ15.5×Φ8×5t(Anisotropic rubber magnet), Unit: Gauss;  
2.Sine wave /X, Y, Z3 axial / axial 3 / every time 11ms;  
3.Complex amplitude 1.5mm/10Hz~55Hz Sweep, Last minute /Each X, Y, Z axial operation 1 hours;  
4.1=NO/2=Output short circuit protection/3=Power reverse polarity protection/4=surge absorption protection.



### M8公头接线图 M8 Male Connector



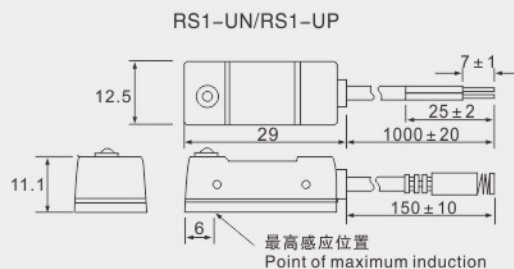
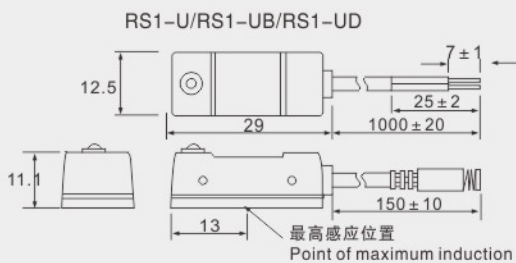
### 气缸结构图 Cylinder Sketch



适用于: 适用于 ISO米型缸、标准圆形缸和标准拉杆缸气缸  
通用其他型号: 亚德客CS1-F、气立可CS-100、长拓CS-22等  
For cylinder: M-type Cylinders, round cylinders, rod cylinders  
Applies: AirTAC CS1-F, Chelic CS-100, CHANTO CS-22



### 产品尺寸图 Dimensions(mm)



# 磁性开关 Magnetic sensor

二线式 2Wires  
三线式 3Wires

## 产品规格 Specification

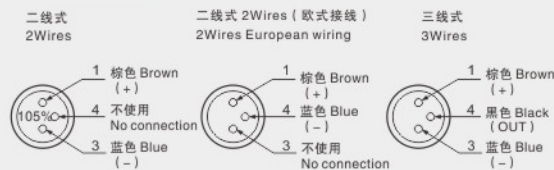
项目/型号 Project/Model	RS1-26D	RS1-26N	RS1-26P
配线方式 Wiring method	2线式 2Wires	3线式 3Wires	
开关逻辑 Switch logic	电子式无接点/常开型 E-free contacts: Normally open		电子式无接点/常开型 E-free contacts: Normally open
输出接点型式 Sensor switch type	电子式无接点/常开型 E-free contacts: Normally open	无接点NPN型 Non-contact NPN	无接点PNP型 Non-contact PNP
使用电压范围 Voltage Range	10-28V DC	5-28VDC	5-28VDC
最大开关电流 Maximum switching current	4-20 mA max.	50mA max.	50mA max.
接点容量 Maximum contact capacity	0.6W max.	1.5W max.	1.5W max.
内部消耗电流 Internal current consumption	40μA max@24V	10mA max @ 24VDC	10mA max @ 24V DC
内部电压降 Residual pressure drop	3.5V max.	0.5Vmax. @50mA DC	0.5Vmax. @50mA DC
漏电流 Leakage current	90μA max@28V	0.01mA max	0.01mA max
指示灯颜色 Indicator	红色(RED) LED	红色(RED) LED	绿色(Green)LED
开关感度 (※1) Switch sensitivity	40-750G		
最大切换频率 Maximum switching frequency	1000Hz		
使用温度范围 Operating temperature range	-10-70°C		
耐冲击 (※2) Impact resistance	50G		
耐震动 (※3) Vibration resistance	9G		
保护构造等级 Waterproof	IEC 529 IP67(NEMA 6)		
保护回路 (※4) Protection circuit	4	3, 4	3, 4
电线 cable	2.6Φ、3C, 黑色耐油PVC(可定做带航插) 2.6Φ、3C, oil resistant Black PVC(Customized with Male Connector)		

- ※: 1.测量使用之标准磁石: Φ15.5×Φ8×5t(异性橡胶磁石), 单位: 高斯;  
2.正弦波/X、Y、Z3轴向/每一轴向3回/每一回时间11ms;  
3.复振幅1.5mm/10Hz-55Hz扫频, 持续一分钟/每次X、Y、Z轴向操作1小时;  
4.1=无/2=输出短路保护/3=电源逆接保护/4=突波吸收保护。

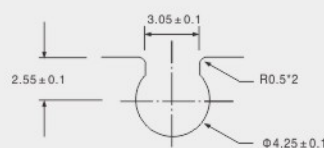
- ※: 1.Standard magnet for measurement: Φ15.5×Φ8×5t(Anisotropic rubber magnet), Unit: Gauss;  
2.Sine wave /X, Y, Z3 axial / axial 3 / every time 11ms;  
3.Complex amplitude 1.5mm/10Hz-55Hz Sweep, Last minute /Each X, Y, Z axial operation 1 hours;  
4.1=NO/2=Output short circuit protection/3=Power reverse polarity protection/4=surge absorption protection。



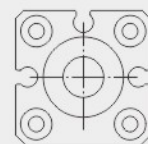
### M8公头接线图 M8 Male Connector



### 沟槽尺寸图 Cylinder Sketch(mm)

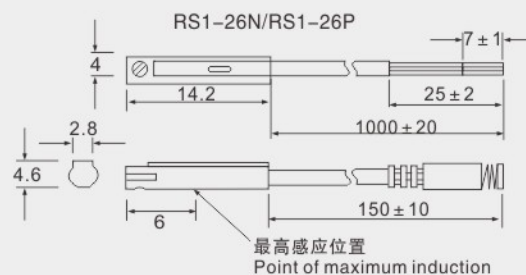
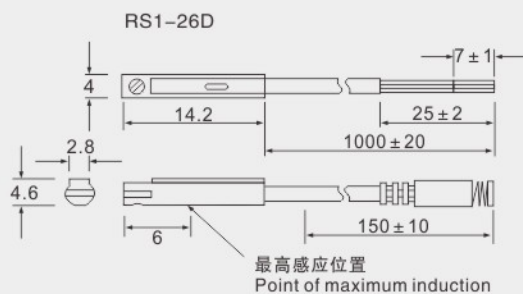


### 气缸结构图 Cylinder Sketch



适用于: SMC、气立可、长拓、金器沟槽缸  
其他气缸可选用专用固定支架安装: 拉杆缸、米型缸  
For cylinder: SMC, Chelic, CHANTO, MINDMAN cylinders  
Other cylinders can be used for special fixed bracket installation: rod cylinders, M-type Cylinders

### 产品尺寸图 Dimensions(mm)



# 磁性开关 Magnetic sensor

二线式 2Wires  
三线式 3Wires

## 产品规格 Specification

项目/型号Project/Model	RS1-29D	RS1-29N	RS1-29P
配线方式Wiring method	2线式 2Wires	3线式 3Wires	
开关逻辑Switch logic	电子式无接点/常开型 E-free contacts:Normally open		电子式无接点/常开型 E-free contacts:Normally open
输出接点型式Sensor switch type	电子式无接点/常开型 E-free contacts:Normally open	无接点NPN型 Non-contact NPN	无接点PNP型 Non-contact PNP
使用电压范围Voltage Range	10-28V DC	5-28VDC	5-28VDC
最大开关电流Maximum switching current	4-20 mA max.	50mA max.	50mA max.
接点容量Maximum contact capacity	0.6W max.	1.5W max.	1.5W max.
内部消耗电流Internal current consumption	40μA max@24V	10mA max@ 24VDC	10mA max@ 24V DC
内部电压降Residual pressure drop	3.5V max.	0.5Vmax. @50mA DC	0.5Vmax. @50mA DC
漏电流Leakage current	90μA max@28V	0.01mA max	0.01mA max
指示灯颜色Indicator	红色(RED) LED	红色(RED) LED	绿色(Green)LED
开关感度 (※1) Switch sensitivity	40-750G		
最大切换频率Maximum switching frequency	1000Hz		
使用温度范围Operating temperature range	-10~70℃		
耐冲击 (※2) Impact resistance	50G		
耐震动 (※3) Vibration resistance	9G		
保护构造等级Waterproof	IEC 529 IP67(NEMA 6)		
保护回路 (※4) Protection circuit	4	3、4	3、4
电线Cable	2.6Φ、3C, 黑色耐油PVC(可定做带航插) 2.6Φ、3C, oil resistant Black PVC(Customized with Male Connector)		

- ※: 1.测量使用之标准磁石: Φ15.5×Φ8×5t(异性橡胶磁石), 单位: 高斯;  
2.正弦波/X、Y、Z3轴向/每一轴向3回/每一回时间11ms;  
3.复振幅1.5mm/10Hz-55Hz扫频, 持续一分钟/每次X、Y、Z轴向操作1小时;  
4.1=无/2=输出短路保护/3=电源逆接保护/4=突波吸收保护。

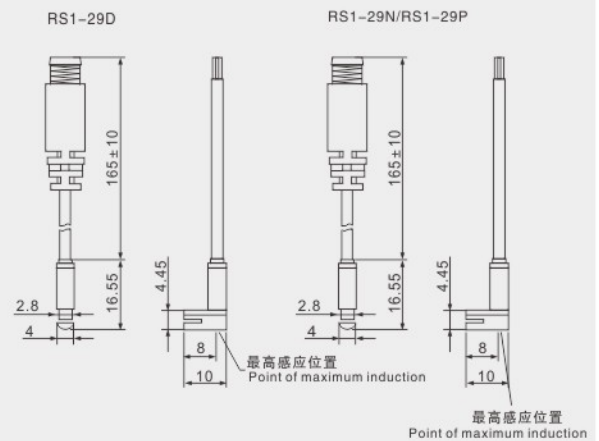
- ※: 1.Standard magnet for measurement: Φ15.5×Φ8×5t(Anisotropic rubber magnet), Unit: Gauss;  
2.Sine wave /X, Y, Z3 axial / axial 3 / every time 11ms;  
3.Complex amplitude 1.5mm/10Hz-55Hz Sweep, Last minute /Each X, Y, Z axial operation 1 hours;  
4.1=NO/2=Output short circuit protection/3=Power reverse polarity protection/4=surge absorption protection。



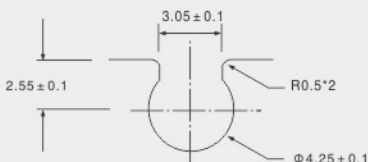
### M8公头接线图 M8 Male Connector



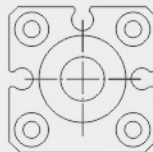
### 产品尺寸图 Dimensions(mm)



### 沟槽尺寸图 Cylinder Sketch(mm)



### 气缸结构图 Cylinder Sketch



适用于: 4ΦSMC、气立可、长拓、金器沟槽  
For cylinder: 4ΦSMC, Chelic, CHANTO, MINDMAN cylinders

# 磁性开关 Magnetic sensor

二线式 2Wires  
三线式 3Wires

## 产品规格 Specification

项目/型号 Project/Model	RS1-H	RS1-HD	RS1-HN	RS1-HP
配线方式 Wiring method	2线式 2Wires		3线式 3Wires	
开关逻辑 Switch logic	SPST常开型 Normally open	电子式常开型 E-free contacts: open	电子式无接点/常开型 E-free contacts: Normally open	
输出接点型式 Sensor switch type	有接点干簧管型 There reed tube contacts	无接点型 Non-contact	无接点NPN型 Non-contact NPN	无接点PNP型 Non-contact PNP
使用电压范围 Voltage Range	5~240VDC/AC	10~28VDC	5~30VDC	
最大开关电流 Maximum switching current	100mA max.	50mA max.	200mA max.	
接点容量 Maximum contact capacity	10W max.	1.5W max.	6W max.	
内部消耗电流 Internal current consumption	-	40μA max@24V	14(N)/17(P)mA max@ 24V DC(Switch Active)	
内部电压降 Residual pressure drop	2.5Vmax @ 100 mA DC	2.65Vmax.@50mA	0.5Vmax.@400mA	
漏电流 Leakage current	-	90μA max@28V	0.01mA max	
指示灯颜色 Indicator	红色(RED) LED			绿色(Green)LED
开关感度 (※1) Switch sensitivity	40G	40G~750G		
最大切换频率 Maximum switching frequency	200Hz	1000Hz		
使用温度范围 Operating temperature range	-10~70°C	-10~70°C		
耐冲击 (※2) Impact resistance	30G	50G		
耐震动 (※3) Vibration resistance	9G			
保护构造等级 Waterproof	IEC 529 IP67(NEMA 6)			
保护回路 (※4) Protection circuit	1	2、4	3、4	
电线 cable	2.8Φ、3C, 黑色耐油PVC(可定做带航插) 2.8Φ、3C, oil resistant Black PVC(Customized with Male Connector)			

※: 1.测量使用之标准磁石: Φ15.5×Φ8×5t(异性橡胶磁石), 单位: 高斯;

2.正弦波/X、Y、Z3轴向/每一轴向3回/每一回时间11ms;

3.复振幅1.5mm/10Hz~55Hz扫频, 持续一分钟/每次X、Y、Z轴向操作1小时;

4.1=无/2=输出短路保护/3=电源逆接保护/4=突波吸收保护。

※: 1.Standard magnet for measurement: Φ15.5×Φ8×5t(Anisotropic rubber magnet), Unit: Gauss;

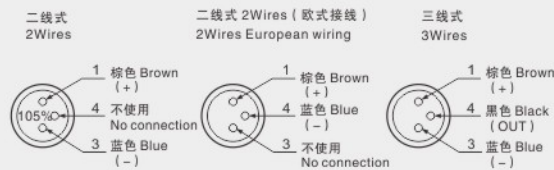
2.Sine wave /X, Y, Z3 axial / axial 3 / every time 11ms;

3.Complex amplitude 1.5mm/10Hz~55Hz Sweep, Last minute /Each X, Y, Z axial operation 1 hours;

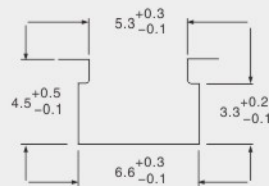
4.1=NO/2=Output short circuit protection/3=Power reverse polarity protection/4=surge absorption protection.



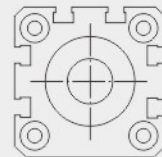
### M8公头接线图 M8 Male Connector



### 沟槽尺寸图 Cylinder Sketch(mm)

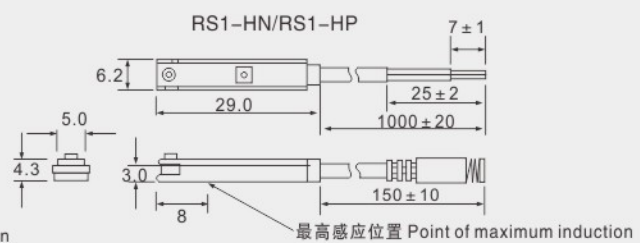
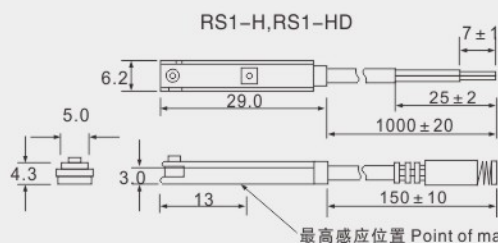


### 气缸结构图 Cylinder Sketch



适用于: FESTO气缸沟槽  
For cylinder: FESTO grooves  
适用亚德客型号: CS1-E  
Applies: AirTAC CS1-E

### 产品尺寸图 Dimensions(mm)



# 磁性开关 Magnetic sensor

二线式 2Wires  
三线式 3Wires

## 产品规格 Specification

项目/型号Project/Model	RS1-Z73	RS1-Z73D	RS1-Z73N	RS1-Z73P
配线方式Wiring method	2线式 2Wires		3线式 3Wires	
开关逻辑Switch logic	SPST常开型 Normally open	电子式常开型 E-free contacts: open	电子式无接点/常开型 E-free contacts:Normally open	
输出接点型式Sensor switch type	有接点簧管型 There reed tube contacts	无接点型 Non-contact	无接点NPN型 Non-contact NPN	无接点PNP型 Non-contact PNP
使用电压范围Voltage Range	5~240VDC/AC	10~28VDC	5~30VDC	
最大开关电流Maximum switching current	100mA max.	50mA max.	200mA max.	
接点容量Maximum contact capacity	10W max.	1.5W max.	6W max.	
内部消耗电流Internal current consumption	-	40μA max@24V	14(N)/17(P)mA max@ 24V DC(Switch Active)	
内部电压降Residual pressure drop	2.5Vmax @ 100 mA DC	2.65Vmax.@50mA	0.5Vmax.@400mA	
漏电流Leakage current	-	90μA max@28V	0.01mA max	
指示灯颜色Indicator	红色(RED) LED			绿色(Green)LED
开关感度 (※1) Switch sensitivity	40G	40G~750G		
最大切换频率Maximum switching frequency	200Hz	1000Hz		
使用温度范围Operating temperature range	-10~70°C		-10~70°C	
耐冲击 (※2) Impact resistance	30G	50G		
耐震动 (※3) Vibration resistance	9G			
保护构造等级Waterproof	IEC 529 IP67(NEMA 6)			
保护回路 (※4) Protection circuit	1	2, 4	3, 4	
电线Cable	2.8Φ、3C, 黑色耐油PVC(可定做带航插) 2.8Φ、3C, oil resistant Black PVC(Customized with Male Connector)			

※: 1.测量使用之标准磁石: Φ15.5×Φ8×5t(异性橡胶磁石), 单位: 高斯;

2.正弦波/X、Y、Z轴向/每一轴向3回/每一回时间11ms;

3.复振幅1.5mm/10Hz~55Hz扫频, 持续一分钟/每次X、Y、Z轴向操作1小时;

4.1=无/2=输出短路保护/3=电源逆接保护/4=突波吸收保护。

※: 1.Standard magnet for measurement: Φ15.5×Φ8×5t(Anisotropic rubber magnet), Unit: Gauss;

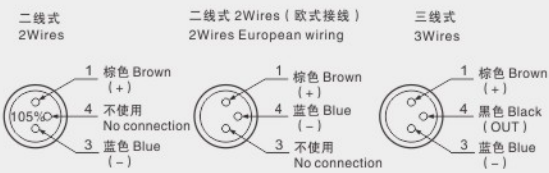
2.Sine wave /X, Y, Z axial / axial 3 / every time 11ms;

3.Complex amplitude 1.5mm/10Hz~55Hz Sweep, Last minute /Each X, Y, Z axial operation 1 hours;

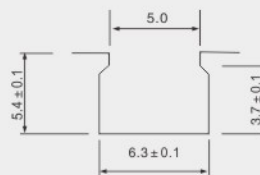
4.1=NO/2=Output short circuit protection/3=Power reverse polarity protection/4=surge absorption protection.



### M8公头接线图 M8 Male Connector



### 沟槽尺寸图 Cylinder Sketch(mm)

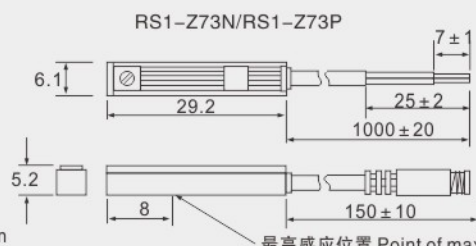
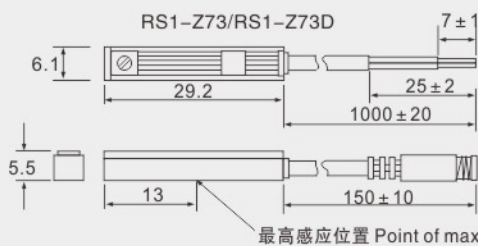


### 气缸结构图 Cylinder Sketch



适用于: SMC、FESTO (费斯托)、  
CHANTO (长拓) 气缸沟槽  
For cylinder: SMC、FESTO、CHANTO grooves  
通用其他型号: SMC型号: D-Z73  
Applies: SMC D-Z73

### 产品尺寸图 Dimensions(mm)



最高感应位置 Point of maximum induction

最高感应位置 Point of maximum induction

# 磁性开关 Magnetic sensor

二线式 2Wires  
三线式 3Wires

## 产品规格 Specification

项目/型号 Project/Model	RS1-E	RS1-ED	RS1-AEP	RS1-EN	RS1-EP
配线方式 Wiring method	2线式 2Wires		3线式 3Wires		
开关逻辑 Switch logic	SPST常开型 Normally open	电子式无接点/常开型 E-free contacts:Normally open	SPST常开型 Normally open	电子式无接点/常开型 E-free contacts:Normally open	
输出接点型式 Sensor switch type	有接点干簧管型 There reed tube contacts	无接点型 Non-contact	有接点干簧管型 There reed tube contacts	无接点NPN型 Non-contact NPN	无接点PNP型 Non-contact PNP
使用电压范围 Voltage Range	5-240V DC/AC	10~28VDC	10~30VDC	10~28VDC	
最大开关电流 Maximum switching current	100 mA max.	50mA max.	500mA max.	200mA max.	
接点容量 Maximum contact capacity	10W max.	1.5W max.	10W max.	5.5W max.	
内部消耗电流 Internal current consumption	-	-	10mA max@ 24V	10mA max@ 24V DC(Switch Active)	
内部电压降 Residual pressure drop	3.0V max.	3.5V max.	0.1Vmax.@100mA	1.5Vmax.@400mA	
漏电流 Leakage current	-	0.8mA max	-	0.05mA max	
指示灯颜色 Indicator	红色(RED) LED	红色(RED) LED	红色(RED) LED	红色(RED) LED	绿色(Green)LED
开关感度 (※1) Switch sensitivity	65G	50G	65G	50G	
最大切换频率 Maximum switching frequency	200Hz	1000Hz	200Hz	1000Hz	
使用温度范围 Operating temperature range	-10~70°C				
耐冲击 (※2) Impact resistance	30G	50G	30G	50G	
耐震动 (※3) Vibration resistance	9G				
保护构造等级 Waterproof	IEC 529 IP67(NEMA 6)				
保护回路 (※4) Protection circuit	1	2	1	3、4	
电线 cable	2.8Φ、3C, 黑色耐油PVC(可定做带航插) 2.8Φ、3C, oil resistant Black PVC(Customized with Male Connector)				

※: 1.测量使用之标准磁石: Φ15.5×Φ8×5t(异性方橡胶磁石), 单位: 高斯;

2.正弦波/X、Y、Z3轴向/每一轴向3回/每一回时间11ms;

3.复振幅1.5mm/10Hz-55Hz扫频, 持续一分钟/每次X、Y、Z轴向操作1小时;

4.1=无/2=输出短路保护/3=电源逆接保护/4=突波吸收保护。

※: 1.Standard magnet for measurement: Φ15.5×Φ8×5t(Anisotropic rubber magnet), Unit: Gauss;

2.Sine wave /X, Y, Z3 axial / axial 3 / every time 11ms;

3.Complex amplitude 1.5mm/10Hz-55Hz Sweep, Last minute /Each X, Y, Z axial operation 1 hours;

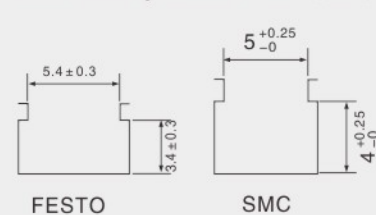
4.1=NO/2=Output short circuit protection/3=Power reverse polarity protection/4=surge absorption protection.



### M8公头接线图 M8 Male Connector



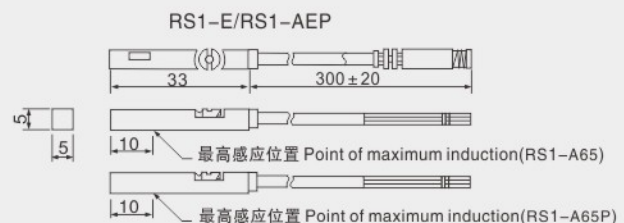
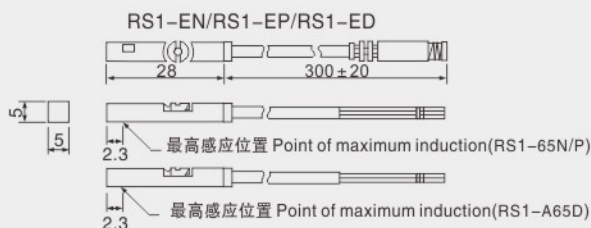
### 沟槽尺寸图 Cylinder Sketch(mm)



### 气缸结构图 Cylinder Sketch



### 产品尺寸图 Dimensions(mm)



# 磁性开关 Magnetic sensor

二线式 2Wires  
三线式 3Wires

## 产品规格 Specification

项目/型号Project/Model	RS1-J	RS1-JB	RS1-JD	RS1-JN	RS1-JP
配线方式Wiring method	2线式 2Wires			3线式 3Wires	
开关逻辑Switch logic	SPST常开型 Normally open	NC常闭型 normally closed	电子式无接点/常开型 E-free contacts:Normally open		
输出接点型式Sensor switch type	有接点干簧管型 There reed tube contacts		无接点型 Non-contact	无接点NPN型 Non-contact NPN	无接点PNP型 Non-contact PNP
使用电压范围Voltage Range	5~240VDC/AC	5~120VDC/AC	10~28VDC	5~30VDC	
最大开关电流Maximum switching current	100mA max.		50mA max.	200mA max.	
接点容量Maximum contact capacity	10W max.		1.5W max.	6W max.	
内部消耗电流Internal current consumption	-		40μA max@24V	20mA max@ 24V DC(Switch Active)	
内部电压降Residual pressure drop	2.5Vmax @ 100 mA DC		2.65Vmax.@50mA	0.5Vmax.@400mA	
漏电流Leakage current	-		90μA max@28V	0.01mA max	
指示灯颜色Indicator	红色(RED) LED	绿色(Green)LED	红色(RED) LED	红色(RED) LED	绿色(Green)LED
开关感度 (※1) Switch sensitivity	40G~50G			40G~750G	
最大切换频率Maximum switching frequency	200Hz			1000Hz	
使用温度范围Operating temperature range	-10~70°C			-10~70°C	
耐冲击 (※2) Impact resistance	30G			50G	
耐震动 (※3) Vibration resistance	9G			50G	
保护构造等级Waterproof	IEC 529 IP67(NEMA 6)				
保护回路 (※4) Protection circuit	1		2、4		3、4
电线cable	3.2Φ、3C, 黑色耐油PVC(可定做带航插) 3.2Φ、3C, oil resistant Black PVC(Customized with Male Connector)				

※: 1.测量使用之标准磁石: Φ15.5×Φ8×5t(异方性橡胶磁石), 单位: 高斯;

2.正弦波/X、Y、Z3轴向/每一轴向3回/每一回时间11ms;

3.复振幅1.5mm/10Hz~55Hz扫频, 持续一分钟/每次X、Y、Z轴向操作1小时;

4.1=无/2=输出短路保护/3=电源逆接保护/4=突波吸收保护。

※: 1.Standard magnet for measurement: Φ15.5×Φ8×5t(Anisotropic rubber magnet), Unit: Gauss;

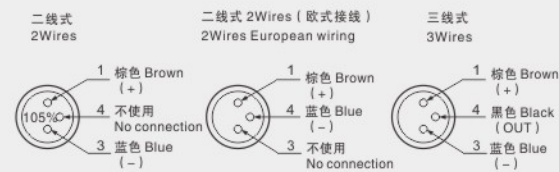
2.Sine wave /X, Y, Z3 axial / axial 3 / every time 11ms;

3.Complex amplitude 1.5mm/10Hz~55Hz Sweep, Last minute /Each X, Y, Z axial operation 1 hours;

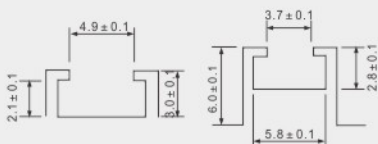
4.1=NO/2=Output short circuit protection/3=Power reverse polarity protection/4=surge absorption protection.



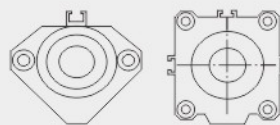
### M8公头接线图 M8 Male Connector



### 沟槽尺寸图 Cylinder Sketch(mm)

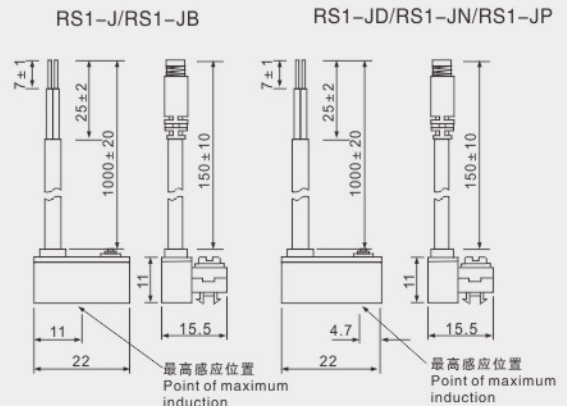


### 气缸结构图 Cylinder Sketch



适用于: SMC气缸沟槽  
For cylinder: SMC Groove  
适用其他型号: SMC D-A72、D-A72L  
Applies: SMC D-A72、D-A72L

### 产品尺寸图 Dimensions(mm)



# 磁性开关 Magnetic sensor

二线式 2Wires  
三线式 3Wires

## 产品规格 Specification

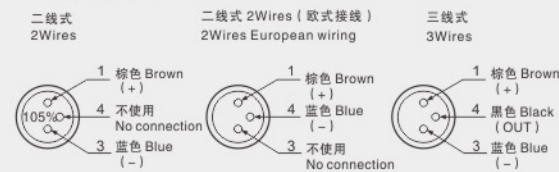
项目/型号 Project/Model	RS1-C73	RS1-C73B	RS1-C73D	RS1-C73N	RS1-C73P
配线方式 Wiring method	2线式 2Wires			3线式 3Wires	
开关逻辑 Switch logic	SPST常开型 Normally open	NC常闭型 normally closed	电子式无接点/常开型 E-free contacts: Normally open		
输出接点型式 Sensor switch type	有接点干簧管型 There reed tube contacts		无接点型 Non-contact	无接点NPN型 Non-contact NPN	无接点PNP型 Non-contact PNP
使用电压范围 Voltage Range	5~240VDC/AC	5~120VDC/AC	10~28VDC	5~30VDC	
最大开关电流 Maximum switching current	100mA max.		50mA max.	200mA max.	
接点容量 Maximum contact capacity	10W max.		1.5W max.	6W max.	
内部消耗电流 Internal current consumption	-		40μA max@24V	8mA max@ 24V DC(Switch Active)	
内部电压降 Residual pressure drop	3Vmax @ 100 mA DC		3.5Vmax.@50mA	1Vmax.@400mA	
漏电流 Leakage current	-		90μA max@28V	0.01mA max	
指示灯颜色 Indicator	红色(RED) LED	绿色(Green)LED	红色(RED) LED	红色(RED) LED	绿色(Green)LED
开关感度 (※1) Switch sensitivity	40G~50G			40G~750G	
最大切换频率 Maximum switching frequency	200Hz			1000Hz	
使用温度范围 Operating temperature range	-10~70°C			-10~70°C	
耐冲击 (※2) Impact resistance	30G			50G	
耐震动 (※3) Vibration resistance	9G				
保护构造等级 Waterproof	IEC 529 IP67(NEMA 6)				
保护回路 (※4) Protection circuit	1		2, 4	3, 4	
电线 cable	3.2Φ、3C, 黑色耐油PVC(可定做带航插) 3.2Φ、3C, oil resistant Black PVC(Customized with Male Connector)				

- ※: 1.测量使用之标准磁石: Φ15.5×Φ8×5t(异性橡胶磁石), 单位: 高斯;  
2.正弦波/X、Y、Z3轴向/每一轴向3回/每一回时间11ms;  
3.复振幅1.5mm/10Hz~55Hz扫频, 持续一分钟/每次X、Y、Z轴向操作1小时;  
4.1=无/2=输出短路保护/3=电源逆接保护/4=突波吸收保护。

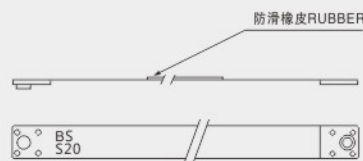
- ※: 1.Standard magnet for measurement: Φ15.5×Φ8×5t(Anisotropic rubber magnet), Unit: Gauss;  
2.Sine wave /X, Y, Z3 axial / axial 3 / every time 11ms;  
3.Complex amplitude 1.5mm/10Hz~55Hz Sweep, Last minute /Each X, Y, Z axial operation 1 hours;  
4.1=NO/2=Output short circuit protection/3=Power reverse polarity protection/4=surge absorption protection.



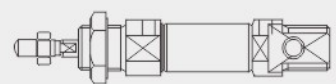
### M8公头接线图 M8 Male Connector



### 沟槽尺寸图 Cylinder Sketch(mm)

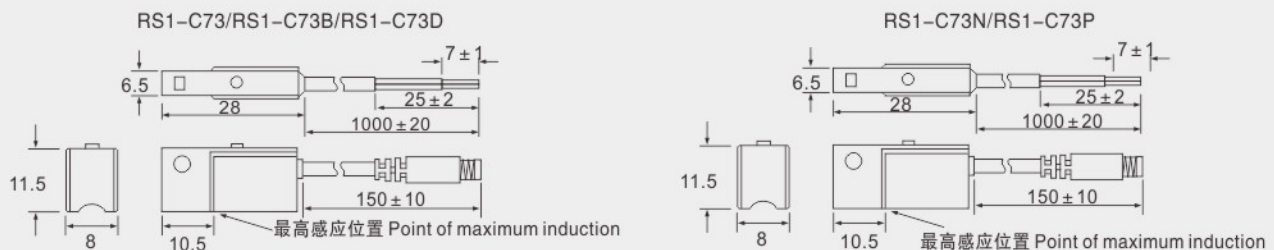


### 气缸结构图 Cylinder Sketch



适用于: SMC、亚德客、TPC之圆形气缸  
For cylinder: SMC AirTAC TPC circular cylinder

### 产品尺寸图 Dimensions(mm)



## 传感器分线盒 sensor junction box

### 产品说明Product description

塑料外壳，玻纤补强，强度更高。Plastic shell, glass fiber reinforced, high strength.

信号诊断，LED指示灯，PNP/NPN可选。

Signal diagnosis, LED indicator, PNP/NPN optional.

提供单信号。Single signal.

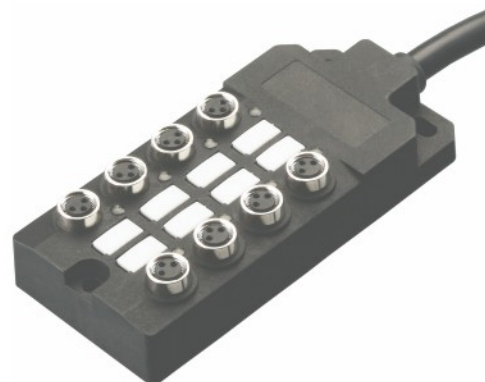
线缆预制，长度、材质可选。

Cable prefabricated, length, material optional.

标准M8金属螺纹连接，性能更可靠，通用性更强。

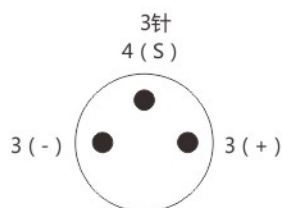
Standard M8 metal threaded connection, the performance is more reliable, more versatile.

防护等级IP67。Protection class IP67.



M8接口——直接出线型  
M8 Male Connector——Cable

### 分线盒针脚分配图The junction box pin allocation map



型号 Model	输出类型 OUTPUT	连接规格 Connection specification	连接方式 Connection	标准配线长度 Cable length
RC080304-N	NPN 常开 NPN NO.	M8孔端 3芯 四位 M8 Male Connector 3-pin Four bit socket	螺纹 M8*1 Thread M8*1	3M
RC080304-P	PNP 常开 PNP NO.			
RC080308-N	NPN 常开 NPN NO.	M8孔端 3芯 八位 M8 Male Connector 3-pin Eight bit socket		
RC080308-P	PNP 常开 PNP NO.			

### 额定规格/性能 Specifications

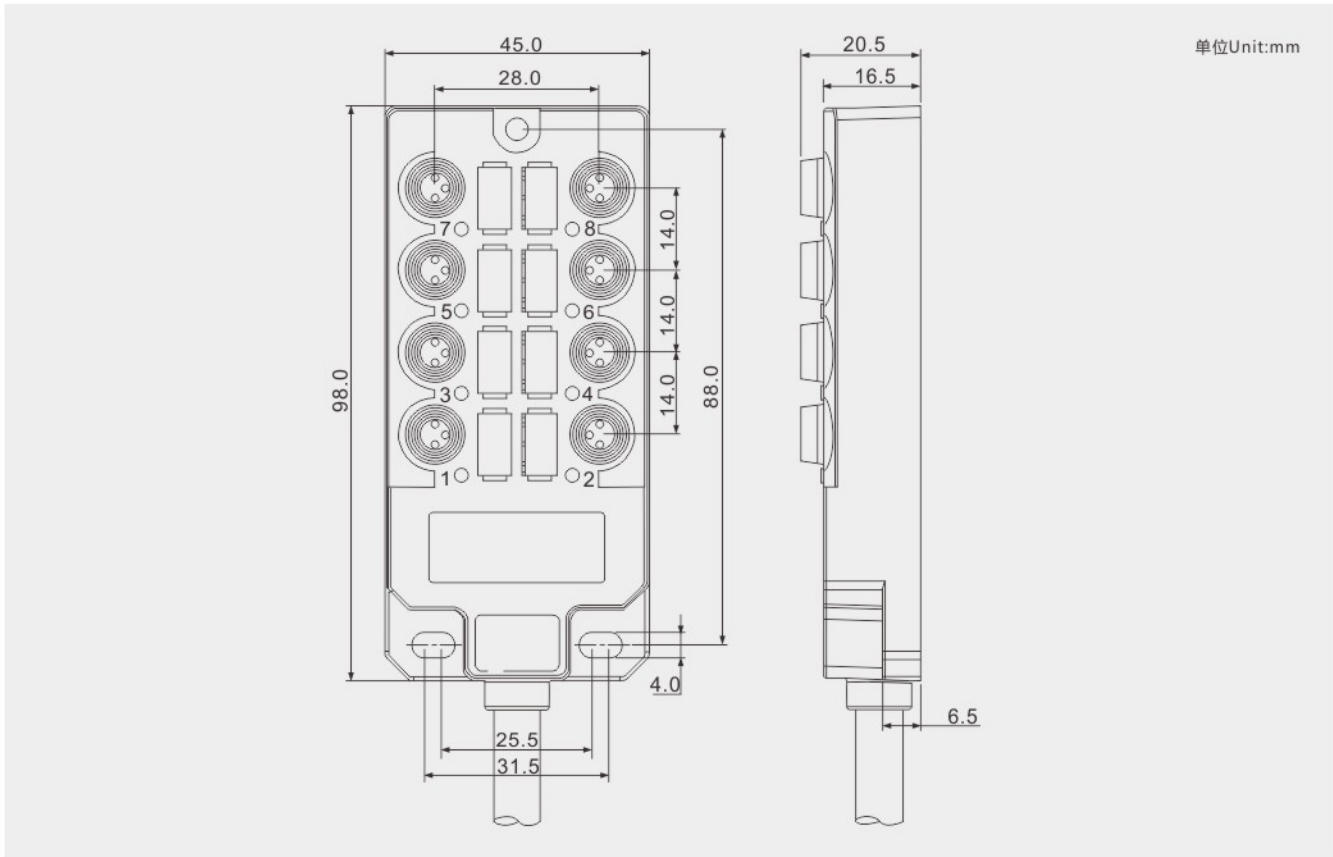
额定电压Rated voltage	10V-30V
额定电流Rated current	2A/Port,10A/Total
接触阻抗Contact resistance	8mΩ MAX
环境温度Ambient temperature	-20°C- +80°C

### 材料Texture of material

基座Base	PA66+GF
M8端子 M8 Male Connector	磷青铜 镀金Copper gold alloy
螺母Nut	黄铜 镀镍Copper nickel alloy
O型环O Rings	FKM
灌封材料 potting material	环氧树脂epoxy resin
线缆材质 Cable material	PVC/PUR

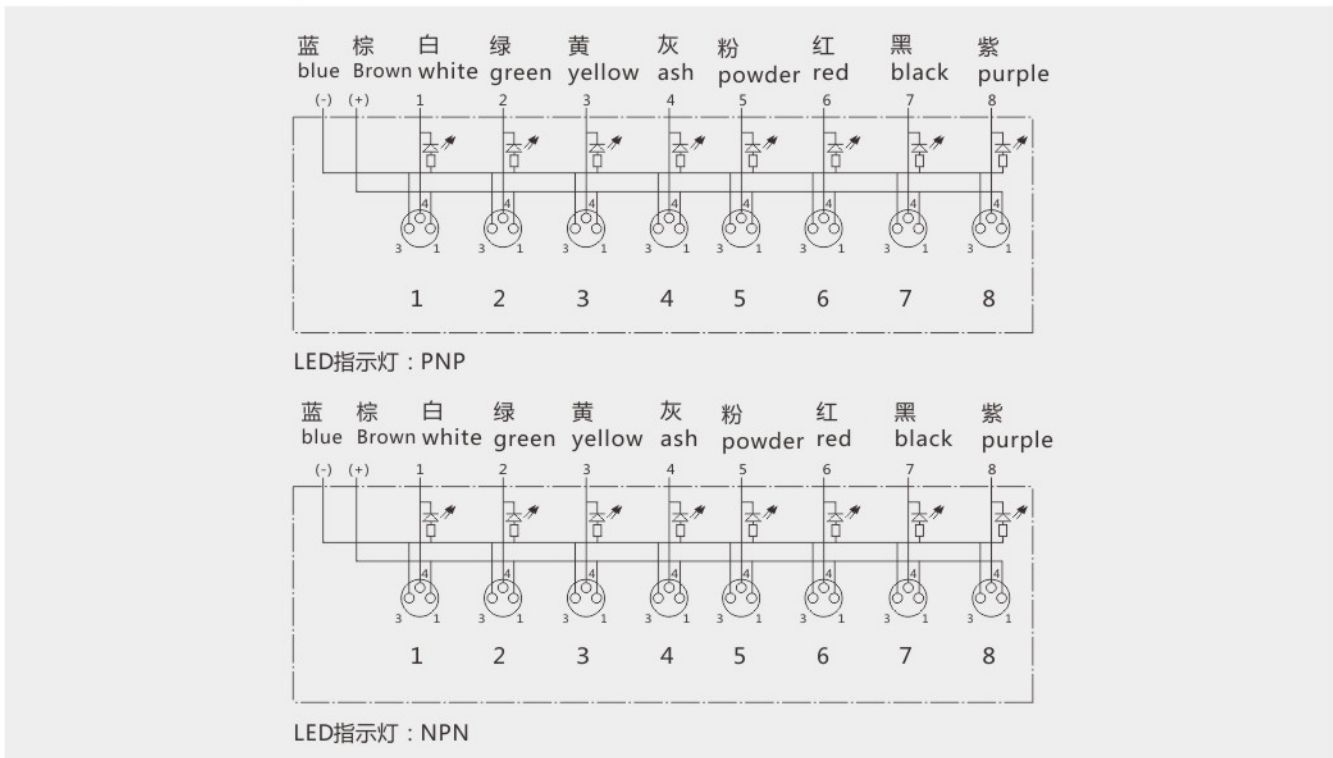
# 传感器分线盒 sensor junction box

产品外观尺寸 Drawing



传感器分线盒  
sensor junction box

## 接线示意图 Connection Diagram



## 传感器分线盒 sensor junction box

### 产品说明Product description

塑料外壳，玻纤补强，强度更高。Plastic shell, glass fiber reinforced, high strength.

信号诊断，LED指示灯，PNP/NPN可选。Signal diagnosis, LED indicator, PNP/NPN optional.

提供单信号。Single signal.

线缆预制，长度、材质可选。Cable prefabricated, length, material optional.

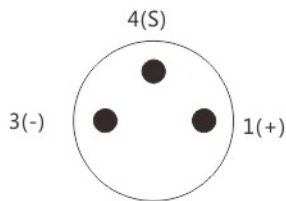
标准M8金属螺纹连接，性能更可靠，通用性更强。Standard M8 metal threaded connection, the performance is more reliable, more versatile.

防护等级IP67。Protection class IP67.



M8接口——D型插头出线型  
M8 Male Connector——Type D Plug line

### 分线盒针脚分配图 The junction box pin allocation map



型号 Model	输出类型 OUTPUT	连接规格 Connection specification	连接方式 Connection	标准配线长度 Cable length
RC080304-ND	NPN 常开 NPN NO.	M8孔端 3芯 四位 M8 Male Connector 3-pin Four bit socket	螺纹 M8*1 Thread M8*1	3M
RC080304-PD	PNP 常开 PNP NO.			
RC080308-ND	NPN 常开 NPN NO.	M8孔端 3芯 八位 M8 Male Connector 3-pin Eight bit socket		
RC080308-PD	PNP 常开 PNP NO.			

### 额定规格/性能 Specifications

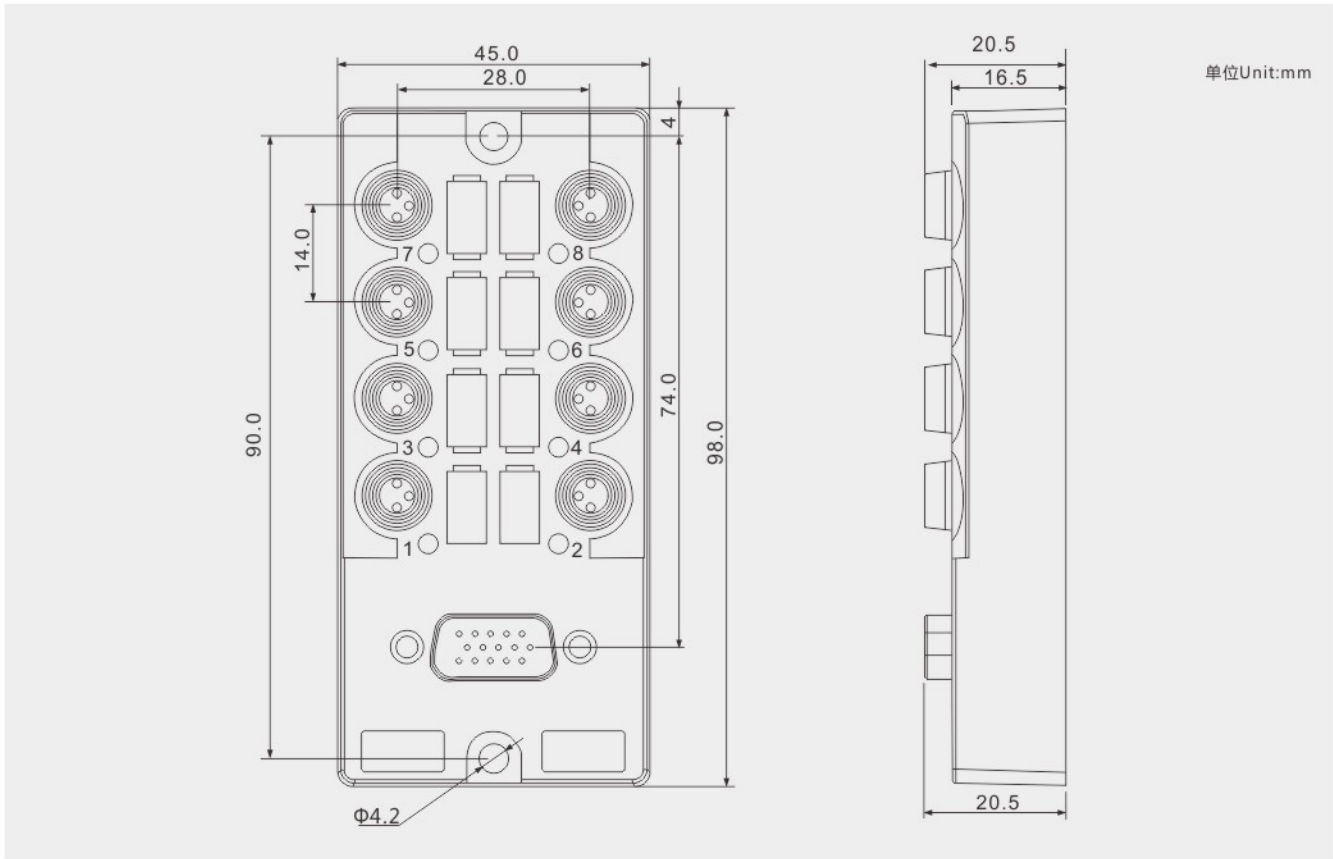
额定电压Rated voltage	10V-30V
额定电流Rated current	2A/Port,10A/Total
接触阻抗Contact resistance	8mΩ MAX
环境温度Ambient temperature	-20°C- +80°C

### 材料Texture of material

基座Base	PA66+GF
M8端子 M8 Male Connector	磷青铜 镀金Copper gold alloy
螺母Nut	黄铜 镀镍Copper nickel alloy
O型环O Rings	FKM
灌封材料 potting material	环氧树脂epoxy resin
线缆材质 Cable material	PVC/PUR

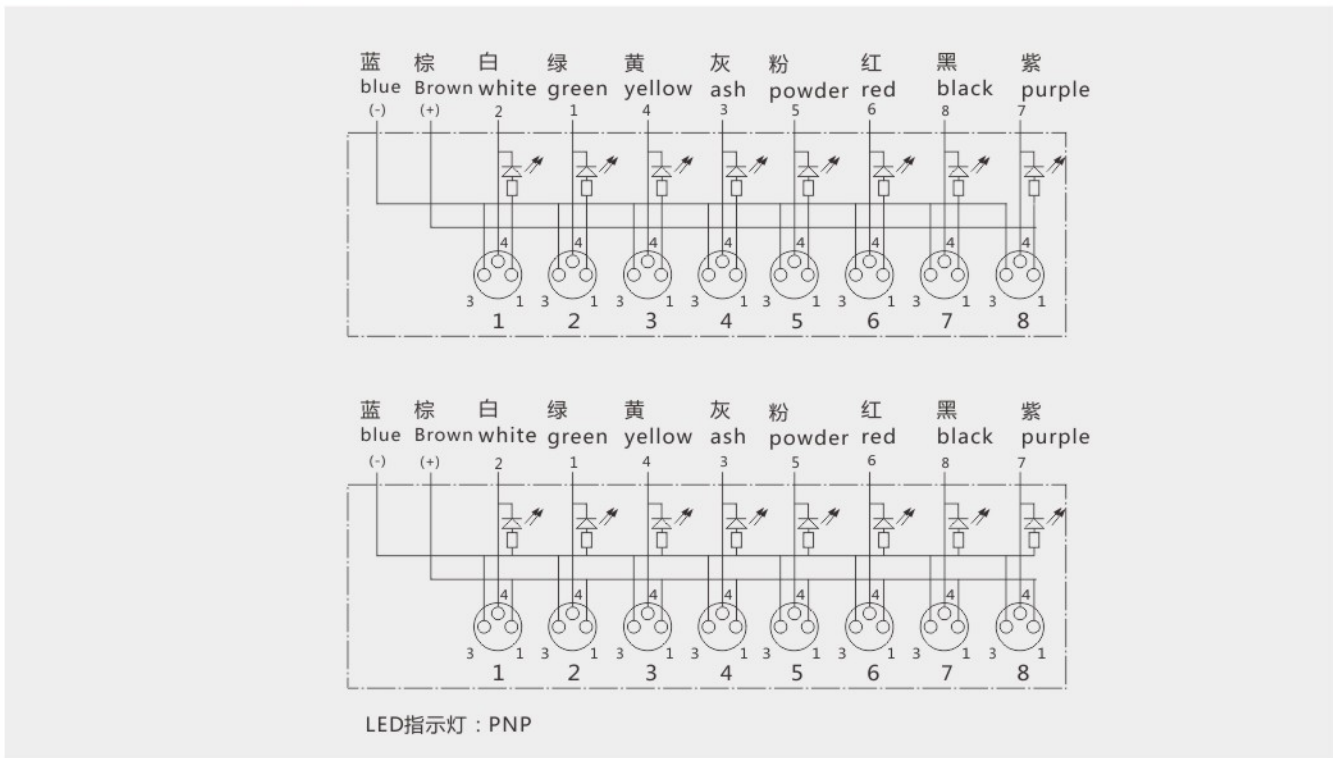
# 传感器分线盒 sensor junction box

产品外观尺寸 Drawing



传感器分线盒  
sensor junction box

## 接线示意图 Connection Diagram



## 传感器分线盒 sensor junction box

### 产品说明Product description

塑料外壳，玻纤补强，强度更高。Plastic shell, glass fiber reinforced, high strength.

信号诊断，LED指示灯，PNP/NPN可选。

Signal diagnosis, LED indicator, PNP/NPN optional.

提供单信号。Single signal.

线缆预制，长度、材质可选。

Cable prefabricated, length, material optional.

标准M8金属螺纹连接，性能更可靠，通用性更强。

Standard M8 metal threaded connection, the performance is more reliable, more versatile.

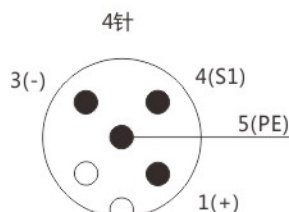
防护等级IP67。Protection class IP67.



M12接口——直接出线型

M12 Male Connector——cable

### 分线盒针脚分配图The junction box pin allocation map



型号 Model	输出类型 OUTPUT	连接规格 Connection specification	连接方式 Connection	标准配线长度 Cable length
RC120404-N	NPN 常开 NPN NO.	M12孔端 4芯 四位 M12 Male Connector 4-pin Four bit socket	螺纹 M12*1 Thread M12*1	3M
RC120404-P	PNP 常开 PNP NO.			
RC120408-N	NPN 常开 NPN NO.	M12孔端 4芯 八位 M12 Male Connector 4-pin Eight bit socket		
RC120408-P	PNP 常开 PNP NO.			

### 额定规格/性能 Specifications

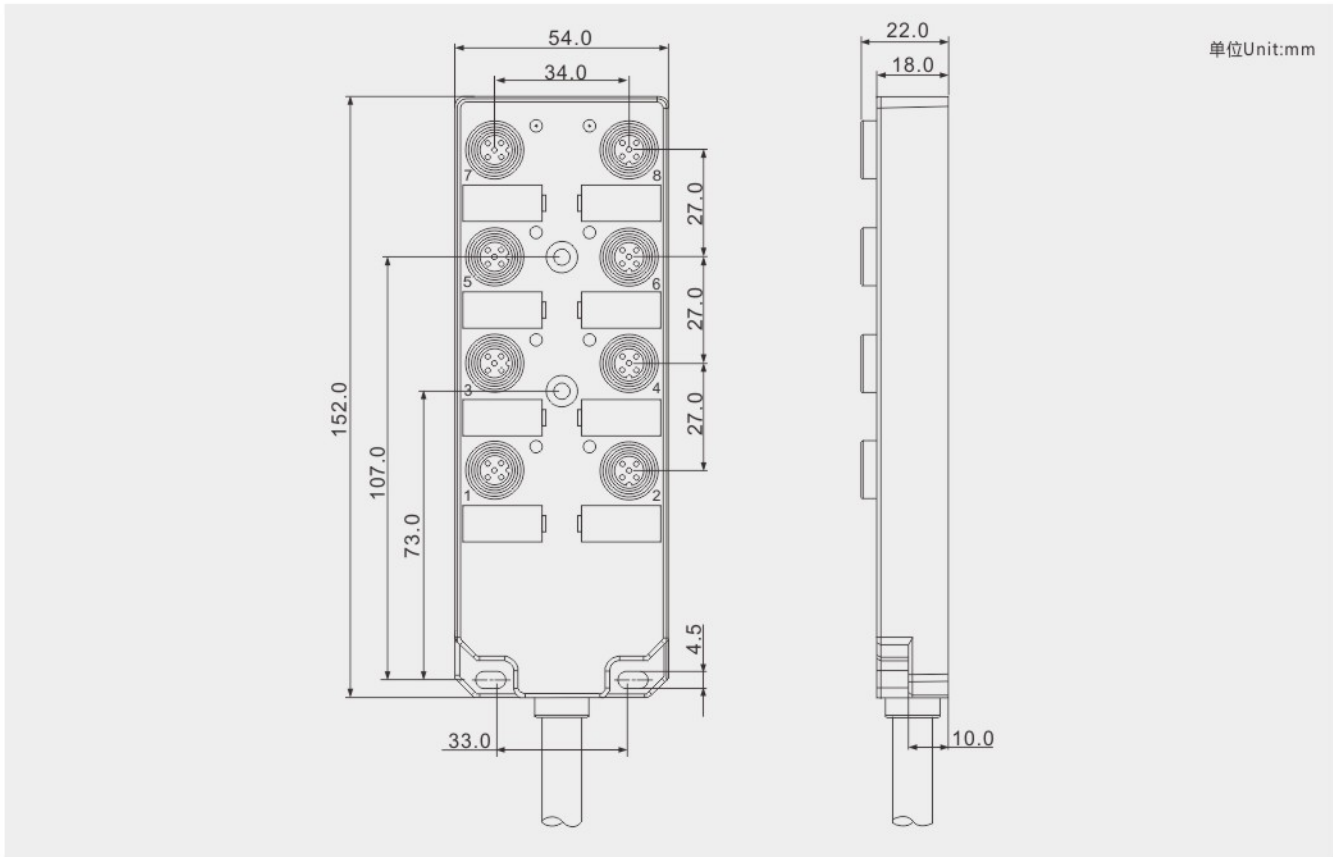
额定电压Rated voltage	10V-30V
额定电流Rated current	2A/Port,10A/Total
接触阻抗Contact resistance	8mΩ MAX
环境温度Ambient temperature	-20°C- +80°C

### 材料Texture of material

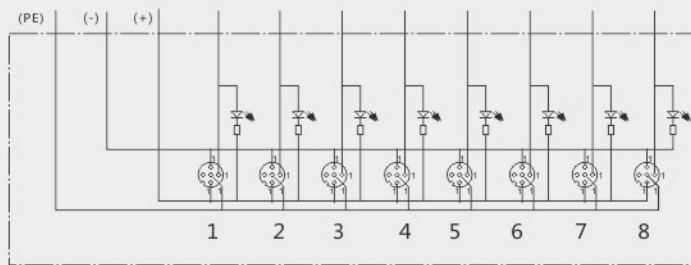
基座Base	PA66+GF
M8端子 M8 Male Connector	磷青铜 镀金Copper gold alloy
螺母Nut	黄铜 镀镍Copper nickel alloy
O型环O Rings	FKM
灌封材料 potting material	环氧树脂epoxy resin
线缆材质 Cable material	PVC/PUR

# 传感器分线盒 sensor junction box

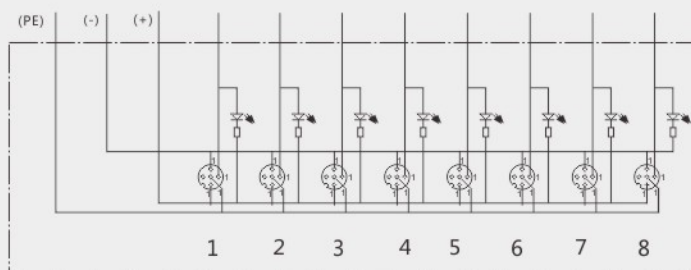
产品外观尺寸 Drawing



## 接线示意图 Connection Diagram



LED指示灯：PNP



LED指示灯：NPN