



外形尺寸 External dimensions	M24×1.5×55		
安装方式 Installation type	埋入式 Flush		
检测距离 Sensing distance	8.0mm		
型号 Model number and operating form 直流 DC 交流 AC 二线制 Two-wire	NPN	NO	ASP01-24s8DNA-1
		NC	ASP01-24s8DNB-1
		NO+NC	ASP01-24s8DNC-1
	PNP	NO	ASP01-24s8DPA-1
		NC	ASP01-24s8DPB-1
		NO+NC	ASP01-24s8DPC-1
	二线制 Two-wire	NO	ASP01-24s8DTA-1
		NC	ASP01-24s8DTB-1
		NO	ASP01-24s8ATA-1
	二线制 Two-wire	NC	ASP01-24s8ATB-1
		NC	ASP01-24s8ATB-1
电源电压 Supply voltage			
外壳材质 Housing material	黄铜 Brass		
连接方式 Connection method	引线 Cable		



外形尺寸 External dimensions	M24×1.5×63		
安装方式 Installation type	非埋入式 Non Flush		
检测距离 Sensing distance	10.0mm		
型号 Model number and operating form 直流 DC 交流 AC 二线制 Two-wire	NPN	NO	ASP01-24b10DNA-1
		NC	ASP01-24b10DNB-1
		NO+NC	ASP01-24b10DNC-1
	PNP	NO	ASP01-24b10DPA-1
		NC	ASP01-24b10DPB-1
		NO+NC	ASP01-24b10DPC-1
	二线制 Two-wire	NO	ASP01-24b10DTA-1
		NC	ASP01-24b10DTB-1
	二线制 Two-wire	NO	ASP01-24b10ATA-1
		NC	ASP01-24b10ATB-1
电源电压 Supply voltage			
外壳材质 Housing material	黄铜 Brass		
连接方式 Connection method	引线 Cable		



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型号 Model number and operating form 直流 DC 交流 AC 二线制 Two-wire	NPN	NO	ASP01-24s8DNA-3
		NC	ASP01-24s8DNB-3
		NO+NC	ASP01-24s8DNC-3
	PNP	NO	ASP01-24s8DPA-3
		NC	ASP01-24s8DPB-3
		NO+NC	ASP01-24s8DPC-3
	二线制 Two-wire	NO	ASP01-24s8DTA-3
		NC	ASP01-24s8DTB-3
	二线制 Two-wire	NO	ASP01-24s8ATA-3
		NC	ASP01-24s8ATB-3
电源电压 Supply voltage			
外壳材质 Housing material	黄铜 Brass		
连接方式 Connection method	接插式 Quick connect		



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		NC	ASP01-24b10DNB-3
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	PNP	NO	ASP01-24b10DPA-3
		NC	ASP01-24b10DPB-3
		NO+NC	ASP01-24b10DPC-3
	二线制 Two-wire	NO	ASP01-24b10DTA-3
		NC	ASP01-24b10DTB-3
	二线制 Two-wire	NO	ASP01-24b10ATA-3
		NC	ASP01-24b10ATB-3
电源电压 Supply voltage			
外壳材质 Housing material	黄铜 Brass		
连接方式 Connect on method	接插式 Quick connect		



外形尺寸 External dimensions	M30×1.5×55		
安装方式 Installation type	埋入式 Flush		
检测距离 Sensing distance	10.0mm		
型号 Model number and operating form 直流 DC 交流 AC 二线制 Two-wire	NPN	NO	ASP01-30s10DNA-1
		NC	ASP01-30s10DNB-1
		NO+NC	ASP01-30s10DNC-1
	PNP	NO	ASP01-30s10DPA-1
		NC	ASP01-30s10DPB-1
		NO+NC	ASP01-30s10DPC-1
	二线制 Two-wire	NO	ASP01-30s10DTA-1
		NC	ASP01-30s10DTB-1
	二线制 Two-wire	NO	ASP01-30s10ATA-1
		NC	ASP01-30s10ATB-1
电源电压 Supply voltage			
外壳材质 Housing material	黄铜 Brass		
连接方式 Connect on method	引线 Cable		



外形尺寸 External dimensions	M30×1.5×65		
安装方式 Installation type	非埋入式 Non Flush		
检测距离 Sensing distance	15.0mm		
型号 Model number and operating form 直流 DC 交流 AC 二线制 Two-wire	NPN	NO	ASP01-30b15DNA-1
		NC	ASP01-30b15DNB-1
		NO+NC	ASP01-30b15DNC-1
	PNP	NO	ASP01-30b15DPA-1
		NC	ASP01-30b15DPB-1
		NO+NC	ASP01-30b15DPC-1
	二线制 Two-wire	NO	ASP01-30b15DTA-1
		NC	ASP01-30b15DTB-1
	二线制 Two-wire	NO	ASP01-30b15ATA-1
		NC	ASP01-30b15ATB-1
电源电压 Supply voltage			
外壳材质 Housing material	黄铜 Brass		
连接方式 Connect on method	引线 Cable		



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		NC	ASP01-30s10DPB-3
		NO+NC	ASP01-30s10DPC-3
	二线制 Two-wire	NO	ASP01-30s10DTA-3
		NC	ASP01-30s10DTB-3
	二线制 Two-wire	NO	ASP01-30s10ATA-3
		NC	ASP01-30s10ATB-3
电源电压 Supply voltage			
外壳材质 Housing material	黄铜 Brass		
连接方式 Connect ion method	接插式 Quick connect		



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		NC	ASP01-30b15DNB-3
		NO+NC	ASP01-30b15DNC-3
	PNP	NO	ASP01-30b15DPA-3
		NC	ASP01-30b15DPB-3
		NO+NC	ASP01-30b15DPC-3
	二线制 Two-wire	NO	ASP01-30b15DTA-3
		NC	ASP01-30b15DTB-3
	二线制 Two-wire	NO	ASP01-30b15ATA-3
		NC	ASP01-30b15ATB-3
电源电压 Supply voltage			
外壳材质 Housing material	黄铜 Brass		
连接方式 Connect on method	接插式 Quick connect		

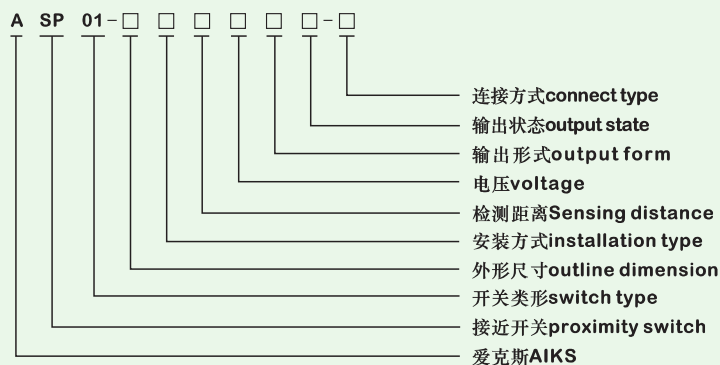


► 概述 Description

■ ■ 接近开关是把要控制的物理量、化学量转为电量形式的开关量信号的传感器，它由振荡器起振后在开关的感应区上产生一个交变磁场，当阻尼物体（如金属）接近感应区时，在阻尼体内产生涡流，吸收了振荡能量，至使整形放大转换二进制的开关，它具有体积小，频率响应快，电压范围宽，重复精度高，抗干扰性强，使用寿命长，工作稳定可靠，广泛应用于冶金、化工、机械、轻工、矿业、烟草、军工、纺织、自动化流水线等，也适用于机床限位、计数测速、液面、保护等各种控制，具有防水、耐腐蚀、耐振等特点。

■ ■ The proximity switch is a sensor of switch signal that changes the physical and chemical quantity into the power quantity. It produces an alternating magnetic field in the inductive area of the switch by the oscillator after the vibration. When the damper (such as metal) gets close to the inductive area, there will be eddy currents in the damper, which absorbs the oscillation energy, so that it becomes an enlarged switch with binary system. It is characterized by small volume, fast frequency response, wide voltage range, high repetition accuracy, strong resistance to interference, long use life, and stable and reliable operation. It is widely used in metallurgy, chemical, machinery, light industry, mining, tobacco, military industry, textile, and automatic production lines. It is also applicable to the machine tool's position limitation, speed calculating, liquid surface protection and other controls, featuring waterproof-ness and strong resistance to corrosion and vibration.

► 型号注释 Model Explain



①连接方式connect type

- 1: 引线Cable
- 2: 接线口connection port
- 3: 快插式Inserts quickly

②输出状态output states

- A: 常开often open
- B: 常闭often close
- C: 常开+常闭often open+often close

③输出形式output form

- N: 直流电流NPN输出direct current PNC output
- P: 直流电流PNP输出direct current PNC output
- T: 电源二线输出power double line output
- R: 继电器输出relay output

④电压voltage

- D: 直流direct current A: 交流Alternating Current

⑤安装方式installation type

- b: 非埋入式does not embedding
- s: 埋入式embedding

⑥外形尺寸outline dimension

- 圆形不表示 circular unexpress
- F: 表示方形squareness
- J: 矩形rectangular

⑦开关类型switch type

- 01: 电感式inductance
- 02: 电容式capacitance
- 03: 霍尔式Hoare
- 04: 模拟式simulation
- 05: 干簧管式reed pipes

► 选用时的注意事项 Notices for selection

项目 item	分析内容 Analysis content	项目 item	分析内容 Analysis content
动作条件 Movement condition	请确认检测物体和接近传感器之间的关系。 Please confirm the relationship between the tested object and the proximity sensor 移动方向 —— 通过间隙, 速度, 有无振动 Move direction Whether vibrates 检测物体 —— 大小, 形状, 有无成本 Detecting object size shape Whether there is costs 检测距离 (设定) Sensing distance (enactment) 温度影响, 电压影响 Temperature influence, voltage influence 响应频率 Response frequency 检测设定 (距离) Detection hypothesis distance 检测部形状: 角柱, 圆柱, 环, 槽型 Detection part shape Corner post, column, link, trough 检测 —— 通过位置的偏差, 允差 Detecting space Deviation allowable error 温度影响, 电压影响 Temperature influence, voltage influence 周围金属的影响 (埋入式、非埋入式) Periphery metal influence 检测部形状 —— 角柱, 圆柱, 环, 槽型 Detection part shape Corner post, column, link, trough 到检测部的距离 Distance to detecting part's distance 对向状况 —— 周围金属的影响 To approaches the condition Periphery metal influence 周围金属的材料 (埋入式、非埋入式) Periphery metal material (embedding and does not embedding)	环境条件 Environmental condition	接近传感器的耐环境特性和其他检测用传感器相比虽然良好, 但要预先充分研究分析温度条件严格的用法和在特殊环境中使用。 Although the proximity sensor has better resistance to environment than other sensors, the thorough study and analysis of temperature conditions and the use in special environment shall be made in advance. 温度 —— 最高值, 最低值 temperature humidity temperature max min whether there is value radiation and so on 湿度影响 High temperature uses low temperature uses Whether visor 环境 —— 水, 油, 铁粉 (污垢) Environment Atmosphere Water, oil, powdered iron (dirt) Special chemical agent and so on 检测设定 (距离) Detection enactment distance 检测部形状 Detection part shape 振动 —— 大小持续时间 Vibration Impact size Duration 是否安装半型 otherwise the firm 安装方法 installation type
电气条件 Electrical condition	请确认所用控制系统的电气条件和接近传感器的电气特性。 Please confirm the electrical conditions of the control system used and the electrical features of the proximity sensor 使用电源 交流 (电压变动值、频率值) 直流 (电压变动值、电流值) 直流电压经过足够滤波电容或稳压电容后保证纹波电压 < 3% 方可供电。 电源方式的选定 交流用 50HZ-60HZ 频率内使用 直流用 足够滤波电容或稳压电容后保证纹波电压 < 3% 电阻负载, 无触点控制系统 感应负载, 继电器、电磁线圈等 稳定电流值、突升电流值 动作, 复位电压 (电流) 灯负载 稳定电流值, 突升电流值开关频率 电源方式的选定 直流用 直流用 + K2A3, K2C3 型控制器 最大电流 (电压) 值 漏电流 负载残余电压 Resistance load, Non-contact control system Inductive load, Relay, electromagnetic coil, etc. Stabilize d current, sudden rise current Operation, load of reset voltage (current) lamp Stabilize d current, switch frequency of sudden rise current Selection of Supply voltage For DC +K2A3 and K2C controller for DC Max current (voltage) Max current (voltage) Residual voltage of load	安装条件 Installation condition	必须考虑安装方法, 按所装机械装置的制约, 维护检修的方便性, 接近传感器的相互干扰等条件决定安装方法。 The installation methods shall be determined according to the restrictions of the mechanical devices, the convenience of maintenance and repair, and the mutual interference of proximity sensor. 配线方法 有无感应浪涌 Matches the line method Whether there is inductive surge 使用电线 Electrical wires 种类、长度、耐油线、屏蔽线 Types, length, oil-proof wire, shield wire 接线方法 Wiring method 直接引出、端子配线 Direct outlet, terminal wiring 直线管配线、线槽配线 Liner wiring, wiring duct 维护检修的方便性 Convenience of repair and maintenance 安装方法 固定场所 installation method Fixed place 是否安装配件、直接安装螺钉紧固, 螺栓紧固; Whether the fittings are installed, or the screw fastener and the bolt fastener is installed directly 维护检修的方便性 Convenience of repair and maintenance 安装电位 Electric potential
		外部磁场的影晌 Exterior magnetic field influence	1. 直流磁场中的影响为 200 高斯, 请勿在 200 高斯以上使用。 2. 直流磁场急激变化时, 有可能造成误动作, 请勿在使用直流电磁铁 ON OFF 这种用法周边上使用。 1. The limit of DC magnetic field is 200 Gauss, so do not use above 200 Gauss. 2. When the DC magnetic field changes abruptly, it may cause mistaken operation. Please do not use in the surrounding area of ON OF for DC magnetic field.
		其它条件 Other conditions	经济性 economical efficiency 价格 price 交货期 Transfers the time 标准产品 Standard product 副标准产品 Vice-standard product 寿命 life 通电时间 Circular telegram time 使用频率 use frequency