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## 经济型、能与国内各相同品种直接替换

- 电源反接保护、短路保护，可直接与PLC相联接
- 普通场合使用，耐环境性能中等
- 红色LED显示可以检测传感器工作状态
- 经济并且简单的操作
- 应用广泛，可替换小型开关和限位开关
- IP65防护结构(IEC规格)

### ▲ 使用前请先阅读产品说明书的“注意事项”

#### ■ Economy type, can be the direct substitution of the same types in China.

- Power supply reversal connection protection; short-circuit protection, can directly connect with PLC
- Super-mini type  $\Phi 4/M5$  D.C., M8 A.C. has been trial-produced and promoted
- Used in common places with medium environment resistance
- Red LED indicates that it's available to detect the sensor operating state
- Economic and simple operation
- Widely used, can be the substitution of min-type switch and limiting switch
- IP67 protection structure (IEC specification)
- ▲ Read the "Matters needing attention" of the Product Instruction before use



## 型号规格 Type and Specification

尺寸 Dimension		$\Phi 4$ (LJ4)		M5 (LJ5)		$\Phi 6$ (LJ6)		M8 (LJ8)		M10 (LJ10)		
安装方式 Mounting way		屏蔽式 Screen shield type		屏蔽式 Screen shield type		屏蔽式 Screen shield type		非屏蔽式 Non-screen shield type		非屏蔽式 Non-screen shield type		
型号 Type	直流型 DC type	N	NO	LJ4A3-1-Z/BX	LJ5A3-1-Z/BX	LJ6A3-1-Z/BX	LJ6A3-2-Z/BX	LJ8A3-1-Z/BX	LJ8A3-2-Z/BX	LJ10A3-2-Z/BX	LJ10A3-3-Z/BX	
			NC	LJ4A3-1-Z/AX	LJ5A3-1-Z/AX	LJ6A3-1-Z/AX	LJ6A3-2-Z/AX	LJ8A3-1-Z/AX	LJ8A3-2-Z/AX	LJ10A3-2-Z/AX	LJ10A3-3-Z/AX	
			NO+NC									
		P	NO	LJ4A3-1-Z/BY	LJ5A3-1-Z/BY	LJ6A3-1-Z/BY	LJ6A3-2-Z/BY	LJ8A3-1-Z/BY	LJ8A3-2-Z/BY	LJ10A3-2-Z/BY	LJ10A3-3-Z/BY	
			NC	LJ4A3-1-Z/AY	LJ5A3-1-Z/AY	LJ6A3-1-Z/AY	LJ6A3-2-Z/AY	LJ8A3-1-Z/AY	LJ8A3-2-Z/AY	LJ10A3-2-Z/AY	LJ10A3-3-Z/AY	
			NO+NC									
	交流型 AC type	二线 Two-wire	NO			LJ6A3-1-Z/EX	LJ6A3-2-Z/EX	LJ8A3-1-Z/EX	LJ8A3-2-Z/EX	LJ10A3-2-Z/EX	LJ10A3-3-Z/EX	
			NC			LJ6A3-1-Z/DX	LJ6A3-2-Z/DX	LJ8A3-1-Z/DX	LJ8A3-2-Z/DX	LJ10A3-2-Z/DX	LJ10A3-3-Z/DX	
		三线 Three-wire	NO			LJ6A3-1-J/EZ	LJ6A3-2-J/EZ	LJ8A3-1-J/EZ	LJ8A3-2-J/EZ	LJ10A3-2-J/EZ	LJ10A3-3-J/EZ	
			NC			LJ6A3-1-J/DZ	LJ6A3-2-J/DZ	LJ8A3-1-J/DZ	LJ8A3-2-J/DZ	LJ10A3-2-J/DZ	LJ10A3-3-J/DZ	
			NO+NC									
检测距离 Detection distance		1mm±10%		1mm±10%		1.5mm±10%		2mm±10%		2mm±10%		
设定距离 Set distance		0~0.7mm		0~0.7mm		0~1.2mm		0~1.6mm		0~1.6mm		
标准检测物体 Standard detection object		铁5×5×1mm		铁5×5×1mm		铁8×8×1mm		铁12×12×1mm		铁8×8×1mm		
响应频率 Response frequency		DC: 0.5kHz AC: 25Hz		DC: 0.5kHz AC: 25Hz		DC: 0.5kHz AC: 25Hz		DC: 0.5kHz AC: 25Hz		DC: 0.5kHz AC: 25Hz		
图例 Illustration		图33 Chart 33		图34 Chart 34		图35 Chart 35		图36 Chart 36		图37 Chart 37		

## 型号规格 Type and Specification

尺寸 Dimension		M12 (LJ12)		M18 (LJ18)		M24 (LJ24)		M30 (LJ30)			
安装方式 Mounting way		屏蔽式 Screen shield type		非屏蔽式 Non-screen shield type		屏蔽式 Screen shield type		非屏蔽式 Non-screen shield type			
型号 Type	直流型 DC type	N	NO	LJ12A3-2-Z/BX	LJ12A3-4-Z/BX	LJ18A3-5-Z/BX	LJ18A3-8-Z/BX	LJ24A3-8-Z/BX	LJ24A3-10-Z/BX	LJ30A3-10-Z/BX	LJ30A3-15-Z/BX
			NC	LJ12A3-2-Z/AX	LJ12A3-4-Z/AX	LJ18A3-5-Z/AX	LJ18A3-8-Z/AX	LJ24A3-8-Z/AX	LJ24A3-10-Z/AX	LJ30A3-10-Z/AX	LJ30A3-15-Z/AX
			NO+NC	LJ12A3-2-Z/CX	LJ12A3-4-Z/CX	LJ18A3-5-Z/CX	LJ18A3-8-Z/CX	LJ24A3-8-Z/CX	LJ24A3-10-Z/CX	LJ30A3-10-Z/CX	LJ30A3-15-Z/CX
		P	NO	LJ12A3-2-Z/BY	LJ12A3-4-Z/BY	LJ18A3-5-Z/BY	LJ18A3-8-Z/BY	LJ24A3-8-Z/BY	LJ24A3-10-Z/BY	LJ30A3-10-Z/BY	LJ30A3-15-Z/BY
			NC	LJ12A3-2-Z/AY	LJ12A3-4-Z/AY	LJ18A3-5-Z/AY	LJ18A3-8-Z/AY	LJ24A3-8-Z/AY	LJ24A3-10-Z/AY	LJ30A3-10-Z/AY	LJ30A3-15-Z/AY
			NO+NC	LJ12A3-2-Z/CY	LJ12A3-4-Z/CY	LJ18A3-5-Z/CY	LJ18A3-8-Z/CY	LJ24A3-8-Z/CY	LJ24A3-10-Z/CY	LJ30A3-10-Z/CY	LJ30A3-15-Z/CY
	交流型 AC type	二线 Two-wire	NO	LJ12A3-2-Z/EX	LJ12A3-4-Z/EX	LJ18A3-5-Z/EX	LJ18A3-8-Z/EX	LJ24A3-8-Z/EX	LJ24A3-10-Z/EX	LJ30A3-10-Z/EX	LJ30A3-15-Z/EX
			NC	LJ12A3-2-Z/DX	LJ12A3-4-Z/DX	LJ18A3-5-Z/DX	LJ18A3-8-Z/DX	LJ24A3-8-Z/DX	LJ24A3-10-Z/DX	LJ30A3-10-Z/DX	LJ30A3-15-Z/DX
		三线 Three-wire	NO	LJ12A3-2-J/EZ	LJ12A3-4-J/EZ	LJ18A3-5-J/EZ	LJ18A3-8-J/EZ	LJ24A3-8-J/EZ	LJ24A3-10-J/EZ	LJ30A3-10-J/EZ	LJ30A3-15-J/EZ
			NC	LJ12A3-2-J/DZ	LJ12A3-4-J/DZ	LJ18A3-5-J/DZ	LJ18A3-8-J/DZ	LJ24A3-8-J/DZ	LJ24A3-10-J/DZ	LJ30A3-10-J/DZ	LJ30A3-15-J/DZ
			NO+NC			LJ18A3-5-J/EDZ	LJ18A3-8-J/EDZ	LJ24A3-8-J/EDZ	LJ24A3-10-J/EDZ	LJ30A3-10-J/EDZ	LJ30A3-15-J/EDZ
检测距离 Detection distance		2mm±10%		4mm±10%		5mm±10%		8mm±10%		10mm±10%	
设定距离 Set distance		0~1.6mm		0~3.6mm		0~4mm		0~7mm		0~8mm	
标准检测物体 Standard detection object		铁12×12×1mm		铁15×15×1mm		铁18×18×1mm		铁30×30×1mm		铁24×24×1mm	
响应频率 Response frequency		DC: 0.5kHz AC: 25Hz		DC: 0.5kHz AC: 25Hz		DC: 0.5kHz AC: 25Hz		DC: 0.5kHz AC: 25Hz		DC: 0.5kHz AC: 25Hz	
图例 Illustration		图39 Chart 39		图40 Chart 40		图41 Chart 41		图42 Chart 42		图43 Chart 43	

## ■ 特性参数

滞后距离: 检测距离的10%以下

检测物体: 磁性金属(非磁性金属时检测距离减小)

电源电压: 直流型: DC12~24V(6~36V)脉动(P-P)10%以下,  
交流型: AC110~220V(36~250V)50/60Hz

消耗电流: N.P型: 13mA以下, D型: 0.8mA以下, A型: 1.7mA以下

控制输出: N.P型: 300mA以下, D型: 200mA以下, A型: 400mA以下

回路保护: N.P.D型: 逆连接保护、浪涌吸收、负载短路保护, A型: 浪涌吸收

环境温、湿度: 动作时、保存时: 各-30~+65℃

(不结冰、不结露), 动作时、保存时: 各35~95%RH

绝缘阻抗: 50MΩ以上(DC500兆欧表)充电部分与外壳间

耐电压: AC1000V 50/60Hz 1min充电部分与外壳间

温度的影响: 温度范围-30~+65℃, +23℃时、±15%检测距离以内,

温度范围-25~+60℃, +23℃时、±10%检测距离以内

电压的影响: 额定电源电压范围±15%以内、额定电源电压值时±10%  
检测距离以内

保护构造: IP65(IEC规格)

材质: (外壳: 黄铜镀镍) (检测面: ABS)

## ■ Characteristic parameter

Delay distance: 10% below of the detection distance

Detection object: Magnetic metal (the detection distance decreases when it is non-magnetic metal)

Supply voltage: DC type: DC12~24V(6~36V) Impulse (p-p) 10% below, AC type: AC110~220V  
(36~250V) 50/60Hz

Consumption current: N.P type: 13mA below, D type: 0.8mA below, A type: 1.7mA below

Control output: N.P type: 300mA below, D type: 200mA below, A type: 400mA below

Loop protection: N.P.D type: reversal connection protection, surge absorption, load short-circuit  
protection, A type: surge absorption

Ambient temperature & humidity: During operation, storage: individually -30~+65℃ (no freeze,  
no dew), During operation, storage: individually 35~95%RH

Insulation impedance: 50MΩ above (DC500 megameter) between charging part and housing

Withstand voltage: AC1000V 50/60Hz 1min between charging part and housing

Temperature influence: Temperature range -30~+65℃, at +23℃, ±15% detection distance;  
temperature range -25~+60℃, at +23℃, ±10% detection distance

Voltage influence: Inside ±15% rated supply voltage range, at rated supply voltage value,  
inside ±10% detection distance

Protection structure: IP65 (IEC specification)

Material: (Housing: Nickel plated brass), (Detection surface: ABS).

## ■ 外形尺寸(mm) External dimension

Chart 33 图33 LJ4A3-1-□



Chart 34 图34 LJ5A3-1-□

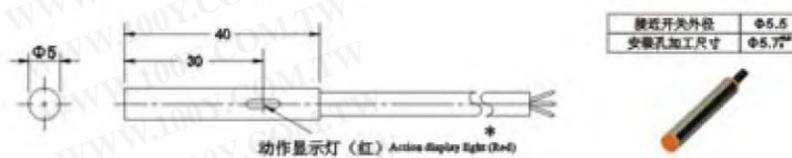


Chart 35 图35 LJ6A3-1-□



Chart 36 图36 LJ8A3-2-□

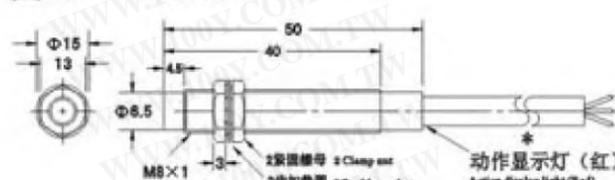


Chart 37 图37 LJ10A3-2-□

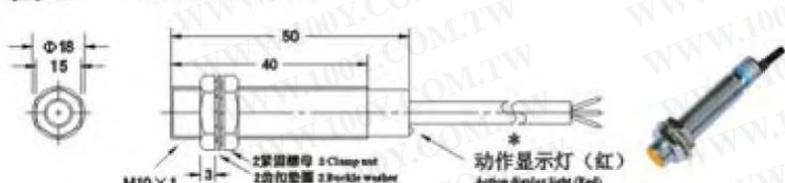


Chart 38 图38 LJ10A3-3-□



Chart 39 图39 LJ12A3-2-□

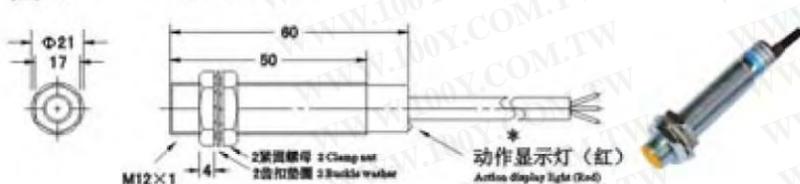


Chart 40 图40 LJ12A3-4-□



Chart 41 图41 LJ18A3-5-□

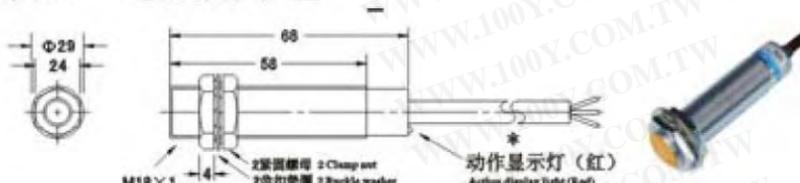


Chart 42 图42 LJ18A3-8-□

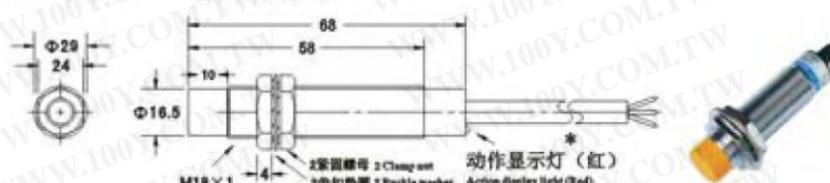


Chart 43 图43 LJ24A3-8-□

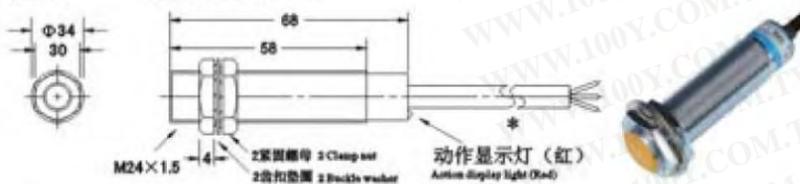


Chart 44 图44 LJ24A3-10-□

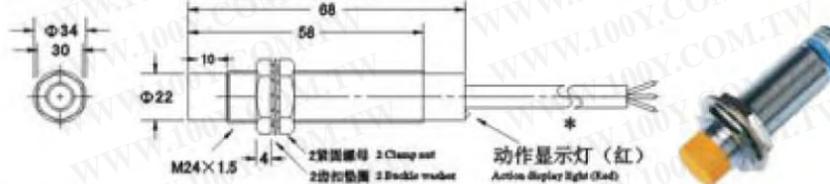


Chart 45 图45 LJ30A3-10-□

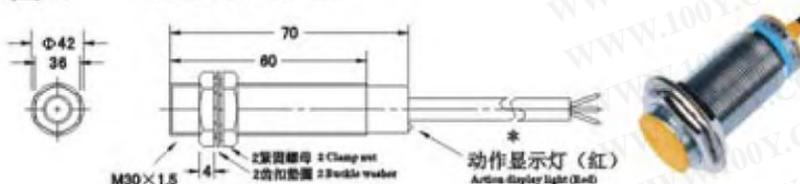
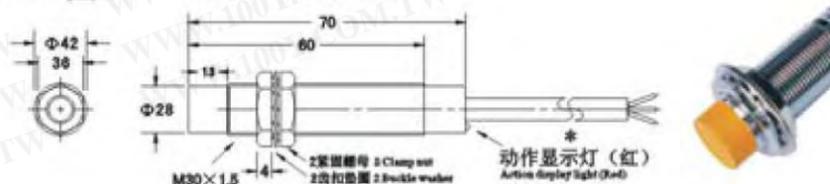


Chart 46 图46 LJ30A3-15-□



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