



LJ18A3-8-Z/BY Inductive Proximity Sensor

PNP DC 3-wires NO

- *Product name:** Proximity switch
- *Model Type:** LJ18A3-8-Z/BY
- *Appearance size:** Cylinder diameter 18mm
- *Detection way:** Inductive
- *Detection distance>:** 8mm
- *Working voltage:** DC 6-36V
- *Output form:** PNP 3-wire NO
- *Detection of objects:** Metal(Copper, iron, aluminum etc.)

Product characteristics

Power source reversal connection protection (DC)

Surge protection

Long life and high reliability

High performance-price ratio; Easy operation

Non-flush and Flush type

Nickel-plated copper tube

High temperature-resistant plastic detection head (PPT)

2m cable output

Metal detection

Red LED indication

Proof grade:IP67

Technical parameter

Hysteresis distance: below 10% of detection distance

Power source voltage: DC:10-30VDC AC: 24, 90-250VAC

Consumption current: N,P type: below 13mA, D type: below0.8mA, A type: Below 1.7mA

Leakage current: N,P type: Max 10mA, D type: Max 0.8mA, A type: Max 2mA

Answer Frequency:800Hz (flush type N, P, D type); 20Hz (A type)

400Hz (non-flush type N, P, D type); 20Hz (A type)

Voltage Drop: N, P type: Max 1.5V; D type: Max 6V; A type: Max 10v

Control output: Below 200mA

Insulation resistance: Above 50m ohm between live parts and cover

Withstand voltage: AC 1000V 50/60Hz 1 min, between live parts and cover

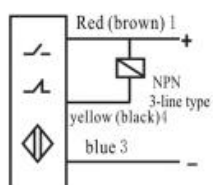
Vibration: amplitudes 1mm, Frequency: 10-55Hz, to the direction of X, Y, Z for 2 hours

LED: Red

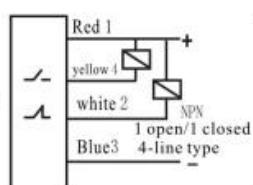
Environment temperature controller: -25~+70

Circuit protection: Short circuit protection, reversal connection protection

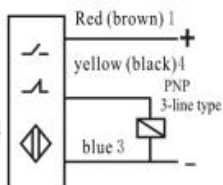
Dimension				M18(LJ18)	
Mounting Way				Screen shield type	Non-screen shield type
TYPE	DC type	NPN	NO	LJ18A3-5-Z/BX	LJ18A3-8-Z/BX
			NC	LJ18A3-5-Z/AX	LJ18A3-8-Z/AX
			NO+NC	LJ18A3-5-Z/CX	LJ18A3-8-Z/CX
		PNP	NO	LJ18A3-5-Z/BY	LJ18A3-8-Z/BY
			NC	LJ18A3-5-Z/AY	LJ18A3-8-Z/AY
			NO+NC	LJ18A3-5-Z/CY	LJ18A3-8-Z/CY
		Two-wire	NO	LJ18A3-5-Z/EX	LJ18A3-8-Z/EX
			NC	LJ18A3-5-Z/DX	LJ18A3-8-Z/DX
	AC type	Two-wire	NO	LJ18A3-5-J/EZ	LJ18A3-8-J/EZ
			NC	LJ18A3-5-J/DZ	LJ18A3-8-J/DZ
		Three-wire	NO+NC	LJ18A3-5-J/EDZ	LJ18A3-8-J/EDZ
Detection distance				5mm±10%	8mm±10%
Set distance				0~4mm	0~7mm
Standard detection object				Iron 18*18*1mm	Iron 30*30*1mm
Response frequency				DC:0.5kHz AC:25Hz	DC:0.5kHz AC:25Hz



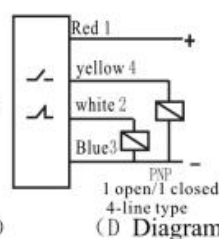
(A Diagram)



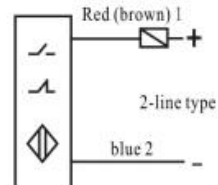
(B Diagram)



(C Diagram)



(D Diagram)



(E Diagram)