

Description

LJE 18 M-5 N 1	Operation mode 1: NO 2: NC Output A: AC (2-wire) type D: DC (2-wire) type N: NPN type P: PNP type Sensing distance(mm) Installation: M: Non-flush Diameter of head(mm) Rectangular standard type Inductive proximity sensor	LJE17M	LJE18M	LJE18CM	LJE30M
		PS	PL	SN04	TL

Specification

Sensing object	Ferrous metal: Iron, copper, steel, aluminium, nickel and so on.
Differential travel	10% max. of sensing distance
Power Supply Voltage	DC(NPN, PNP, 2-wire) type: DC12-24V ripple(p-p): 10% max. AC type: 90-250V 50/60Hz
Current consumption	DC(NPN, PNP, 2-wire) type: 8mA/12V, 15mA/24V AC type: 5mA max.
Control output	DC(NPN, PNP) type: 300mA max. DC(2-wire) type: 3-100mA max. AC type: 10-300mA max.
Protection circuits	DC(NPN, PNP, 2-wire) type: Load short-circuit protection AC type: Surge suppressor
Ambient temperature	-25 to 65°C (with no icing)
Ambient humidity	35% to 95% RH
Temperature influence	±15% max. of sensing distance at 23°C in the temperature range of -25 to 65°C
Voltage influence	±15% max. of sensing distance at rated voltage in the rated voltage ±15% range
Residual voltage	DC(NPN, PNP) type: 1V max. DC(2-wire) type: 3V max. AC(2-wire) type: 7V max.
Insulation resistance	50mΩ min. (at 500VDC) between current-carrying parts and case(Load current: 100mA max., Cable length: 2m)
Dielectric strength	DC(NPN, PNP, 2-wire) type: 1,000VAC, 50/60Hz for 1 minute between current-carrying parts and case AC(2-wire) type: 2,000VAC, 50/60Hz for 1 minute between current-carrying parts and case
Vibration resistance	Destruction : 10 to 55Hz, 1.5mm double amplitude for 2 hours each in X, Y, and Z directions
Shock resistance	Destruction : 500m/s(about 50g) 10 times each in X, Y, and Z directions
Degree of protection	IP54~IP67
Materials	Sensing surface: Heat-resistant ABS

Model

Model		LJE17M	LJE18M	LJE18CM	LJE25M	LJE30M	LJE40M	
DC type	NPN	NO	LJE17M-5N1	LJE18M-5N1	LJE18CM-5N1	LJE25M-8N1	LJE30M-10N1	LJE40M-20N1
		NC	LJE17M-5N2	LJE18M-5N2	LJE18CM-5N2	LJE25M-8N2	LJE30M-10N2	LJE40M-20N2
	PNP	NO	LJE17M-5P1	LJE18M-5P1	LJE18CM-5P1	LJE25M-8P1	LJE30M-10P1	LJE40M-20P1
		NC	LJE17M-5P2	LJE18M-5P2	LJE18CM-5P2	LJE25M-8P2	LJE30M-10P2	LJE40M-20P2
	2 wire	NO	LJE17M-5D1	LJE18M-5D1	LJE18CM-5D1	LJE25M-8D1	LJE30M-10D1	LJE40M-20D1
		NC	LJE17M-5D2	LJE18M-5D2	LJE18CM-5D2	LJE25M-8D2	LJE30M-10D2	LJE40M-20D2
AC type	2 wire	NO	LJE17M-5A1	LJE18M-5A1	LJE18CM-5A1	LJE25M-8A1	LJE30M-10A1	LJE40M-20A1
		NC	LJE17M-5A2	LJE18M-5A2	LJE18CM-5A2	LJE25M-8A2	LJE30M-10A2	LJE40M-20A2
Sensing distance		5mm±15%	5mm±15%	5mm±15%	8mm±15%	10mm±15%	20mm±15%	
Response frequency	DC	0.6KHz	0.6KHz	0.6KHz	0.2KHz	0.4KHz	0.1KHz	
	AC	25Hz	25Hz	25Hz	25Hz	25Hz	25Hz	

Model		PS-05	PS-08	PL-05	PL-08	SN04	TL	
DC type	NPN	NO	PS-05N	PS-08N	PL-05N	PL-08N	SN04-N	TL-W5MC1
		NC	PS-05N2	PS-08N2	PL-05N2	PL-08N2	SN04-N2	TLW5MC2
	PNP	NO	PS-05P	PS-08P	PL-05P	PL-08P	SN04-P	TL-W5MB1
		NC	PS-05P2	PS-08P2	PL-05P2	PL-08P2	SN04-P2	TL-W5MB2
	2 wire	NO	PS-05D1	PS-08D1	PL-05D1	PL-08D1	SN04-E	TL-W5MD1
		NC	PS-05D2	PS-08D2	PL-05D2	PL-08D2	SN04-E2	TL-W5MD2
AC type	2 wire	NO	PS-05A1	PS-08A1	PL-05A1	PL-08A1	SN04-Y	/
		NC	PS-05A2	PS-08A2	PL-05A2	PL-08A2	SN04-Y2	/
Sensing distance		5mm±15%	8mm±15%	5mm±15%	8mm±15%	5mm±15%	5mm±15%	
Response frequency	DC	0.6KHz	0.2KHz	0.6KHz	0.2KHz	0.25KHz	0.2KHz	
	AC	25Hz	25Hz	25Hz	25Hz	25Hz	25Hz	

Wiring Diagram

<p>DC 3 wire NPN type NO or NC</p>	<p>DC 3 wire PNP type NO or NC</p>	<p>DC 2 wire type NO or NC</p>	<p>AC 2 wire type NO or NC</p>
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Dimension(mm)

<p>LJE17M</p>	<p>LJE18M</p>	<p>LJE25M, LJE30M, LJE40M</p> <table border="1"> <tr> <td>LJE25M</td> <td>25</td> <td>38.5</td> <td>18</td> </tr> <tr> <td>LJE30M</td> <td>30</td> <td>52.5</td> <td>22</td> </tr> <tr> <td>LJE40M</td> <td>40</td> <td>53</td> <td>29.5</td> </tr> </table>	LJE25M	25	38.5	18	LJE30M	30	52.5	22	LJE40M	40	53	29.5
LJE25M	25	38.5	18											
LJE30M	30	52.5	22											
LJE40M	40	53	29.5											
<p>LJE18CM</p>	<p>PS-05, PS-08</p>	<p>PL-05, PL-08</p>	<p>SN04</p>											
<p>TL-W5</p>														