

F8 Inductive Switch

CDLJ Series Proximity Switch

Selection Guide

Product Name	Response Mode	Outline Number	Structural Form	Action distance	Working Voltage	Output Mode	Output Current
CDLJ		12	A3	2	Z		
	None: Inductive C: capacitive G: Reed switch type	8: Profile Diameter 8mm 12: Profile Diameter 12 mm 18: Profile Diameter 18 mm 30: Profile Diameter 30 mm	A3: Cylindrical Metal Threaded Outer A4: Cylindrical Plastic threaded outer	1:1mm 2:2mm 4:4mm 5:5mm 8:8mm 10:10mm 15:15mm	Z:DC10-30V; Z1:DC30-65V; J:AC90-250V; J1:AC300-400V	A: Three-wire system is normally closed B: three-wire system is normally open C:Three-wire system is normally open + normally closed D:Two-wire system is normally closed E Two-wire system is normally open	X:NPN DC 200mA Y:PNP DC 200mA Z:400mA M:500mA W:1500mA

Product features

Proximity switch is a kind of position sensor with switch output. It not only has the characteristics of travel switch and microswitch, but also has sensing performance. It can be networked with microcomputer to achieve the purpose of automatic control, and can also directly drive relays, counters and contactors. And has the advantages of high working frequency, long service life, good anti-interference performance, high reset precision (0.02 cm), various output forms, water resistance, shock resistance and corrosion resistance. It has been widely used in machine, textile, light industry, metallurgy, papermaking, printing, packaging, tobacco, electric power, mining, railway, aviation, military and other industries.

Technical parameters

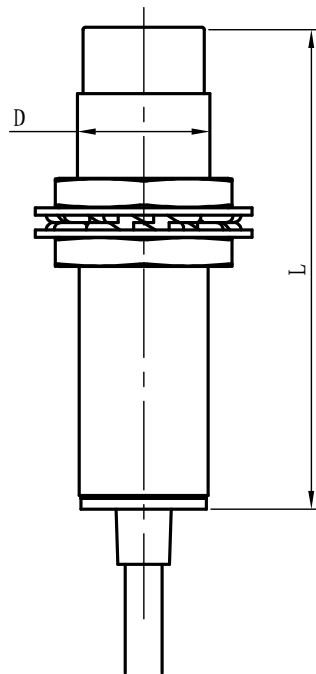
Rated working voltage	DC:10-30V, AC:90-250V,50/60Hz;
Output control current	DC two-wire system modified to AC two-wire system: 50-300 mA, DC two-wire system 100mA, DC three-wire system modified to DC three-wire system: 200 mA, DC four-wire system: 100mA, five-wire system built-in relay, depending on contact capacity;
Operating frequency	DC ≥100Hz AC modified from ≥50Hz to AC≥ 5Hz
Voltage drop	AC two-wire system < 6.5V, DC two-wire system < 4V, DC three-wire system, four-wire system < 1.5V
Current consumption	AC≤15 mA, built-in relay type ≤ 35 mA
Leakage current	AC two-wire system < 1.6mA (AC250V), DC two-wire system < 0.4mA, DC three-wire system, four-wire system<0.1mA
Withstand voltage	DC:500V, AC:1500V
Humidity characteristics	-20°C-70 °C (within plus or minus 10% of the detection distance when the change is 20°C)
Detection distance	1-80mm depending on product shape
Return difference	H≤0.2Sr
Repeatability	R≤0.1Sr
Earthquake resistance	10-55Hz, 1.5mm double vibration amplitude
Degree of protection	IP65
Use categories	AC-140; DC-12

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Outline and installation dimension (mm)

■ CDLJ



Specification and model	Buried type		Non-buried type		D
	L	Induction Instance	L	Induction Instance	
CDLJ8A3-2 Series	47.5	1	51.5	2	M8×1
CDLJ12A3-4 Series	47	2	51.5	4	M12×1
CDLJ18A3-8 Series	47.5	5	55.5	8	M18×1
CDLJ30A3-15 Series	48	10	58.5	15	M30×1.5