



With overload and short circuit, reverse connection protection, surge absorption

With waterproof, anti oil, temperature and other advantages

Yellow LED display can detect sensor work status

IP67 protection structure (IEC specification)

Before use, please read the product specification "



	Decincatio		DC-3	Wires	DC-2Wires	AC-2Wires	
specification	Menuting	Output	NPN PNP		1	1	
	Shield	NO	LN8Y-Z1NK	LN8Y-Z1PK	LN8Y-Z1DK	LN8Y-A1AK	
		NC	LN8Y-Z1NB	LN8Y-Z1PB	LN8Y-Z1DB	LN8Y-A1AB	
	Non shielded	NO	LN8Y-Z2NK	LN8Y-Z2PK	LN8Y-Z2DK	LN8Y-A2AK	
		NC	LN8Y-Z2NB	LN8Y-Z2PB	LN8Y-Z2DB	LN8Y-A2AB	
Rated detection distance		Shield	1mm ± 10%	1mm ± 10%	1mm ± 10%	1mm ± 10%	
		Non shielded	2mm ± 10%	2mm ± 10%	2mm ± 10%	2mm ± 10%	
		Shield	0-0.8mm	0-0.8mm	0-0.8mm	0-0.8mm	
		Non shielded	0-1.6mm	0-1.6mm	0-1.6mm	0-1.6mm	
		Shield	2KHZ	2KHZ	1.5KHZ	25HZ	
		Non shielded	0.8KHZ	0.8KHZ	1KHZ	25HZ	
Movement diffe	erential		Max.10% of sensing distance				
Detected object	:t		Magnetic metal (nonmagnetic metal detection distance will be shorter)				
Standard deter	cted object		Iron 8X8X1mm				
Supply Voltage			DC12~24V rip	pple wave(p-p)Max 109			
Leakage curre	3000 0000 000		1		0.8mA Max	1.7mA Max	
Consumption (mA)			13mA Max		1	1	
Load current(n			200mA Max		5~200mA	5~200mA	
Voltage drop (2V Max		3V Max	3V Max	
Protection circuit		surge protection circuit, reverse polarity protection circuit, overcurrent protection circuit		pulse absorption overcurrent protection circuit	surge protection circuit		
LED Display			yellow LED		Motion: Yellow LED	yellow LED	
On a national target	t *		Working: − 25~ + 70° C, Keeping: − 40~		Stable: Green LED	- NO	
Operating tem	berature C		97-70				
Withstand volta	age		AC1,000V 50/60Hz 1min between the whole and shell 1.5mm amplitude at frequency of 10 to 55Hz(for 1min.) AC2,000V 50/60Hz 1min between the whole and shell				
Vibration			in each of X,Y,Z directions for 2 hours				
Protection class	S		IEC standard IP67,intracompany standard:oil resistant,temperature Resistance				
Connection mo	ode		semi-pluggable (wire 30cm)				
		Housing	Nickel plated brass				
Nickel plated b	rass	Material active face	PBT				
Authentication			CCC CE				
11. 90 54 14 50 50 so				2.50 45 45 45 45 45 45 45 45 45 45 45 45 45			

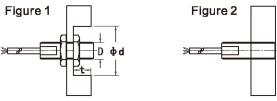


■ Installation conditions

Non shielded proximity switches can achieve maximum operating distance (with the diameter of the relevant); but in order to prevent the switch around the metal impact on the switch, the sensor head must be in a certain gap with the surrounding metal (Figure 1).

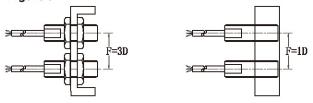
Due to the special shielding effect inside the shield, the radial magnetic field of the side is reduced, and the induction distance is about 60% of the non shield type, because it can be flush mounted in the metal (Figure 2).

The magnetic sensor is not affected by the conditions of installation, as long as the material around the material is not magnetized.



In order to prevent mutual interference, we must keep the minimum distance between each other (Figure 3).

Figure 3

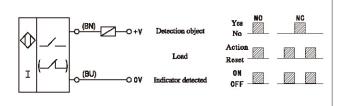


Please refer to the specific data of various types of instructions.

■ Output mode and electrical characteristics

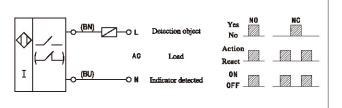
DC two-wire system NO or NC

The load must be connected in series in the sensor to work, there is a polarity and short circuit protection function; in the open circuit state, there is a very small leakage current; in the closed circuit, the switching element has a smaller voltage drop.

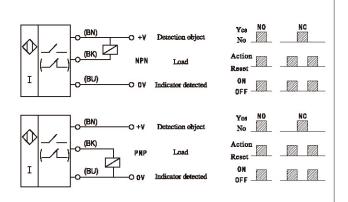


AC two-wire system NO or NC

The load must be connected in series in the sensor, in the closed circuit, the switching element has a smaller voltage drop.



DC three-wire system(N,P type) NO or NC







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		DC-3Wires		DC-2Wires	AC-2Wires	
Menuting	Output	NPN	PNP	1	1	
	NO	LN12Y-Z2NK	LN12Y-Z2PK	LN12Y-Z2DK	LN12Y-A2AK	
Snieia	NC	LN12Y-Z2NB	LN12Y-Z2PB	LN12Y-Z2DB	LN12Y-A2AB	
Non shielded	NO	LN12Y-Z4NK	LN12Y-Z4PK	LN12Y-Z4DK	LN12Y-A4AK	
	NC	LN12Y-Z4NB	LN12Y-Z4PB	LN12Y-Z4DB	LN12Y-A4AB	
200	Shield	2mm ± 10%	2mm ± 10%	2mm ± 10%	2mm ± 10%	
Sensing distance		4mm ± 10%	4mm ± 10%	4mm ± 10%	4mm ± 10%	
Rated detection distance		0-1.6mm	0-1.6mm	0-1.6mm	0-1.6mm	
		0-3.2mm	0-3.2mm	0-3.2mm	0 – 3.2mm	
Frequncy (Hz)		1.5KHZ	1.5KHZ	1KHZ	25HZ	
		0.4KHZ	0.4KHZ	0.8KHZ	25HZ	
erential		Max.10% of sensing distance				
ct		Magnetic metal (nonmagnetic metal detection distance will be shorter)				
cted object		Iron 12X12X1mm				
e (V)		DC12~24V ripple wave(p-p)Max 10%		% (DC10~30V)	AC24~240V50/60Hz	
ent (mA)		/		0.8mA Max	1.7mA Max	
(mA)		13mA Max		1	1	
nA)		200mA Max		5~200mA	5~200mA	
(Vp)		2V Max		3V Max	3V Max	
Protection circuit		surge protection circuit, reverse polarity protection circuit, overcurrent protection circuit		pulse absorption overcurrent protection circuit	surge protection circuit	
LED Display		yellow LED		Motion: Yellow LED	yellow LED	
nerature*						
•		AC1 000V 50/60Hz 1min between the whole and shall AC2,000V 50/60Hz 1min				
		1.5mm amplitude at frequency of 10 to 55Hz(for 1min.)				
28		IEC standard IP67,intracompany standard:oil resistant,temperature Resistance				
1200						
	Housing	Nickel plated brass				
Nickel plated brass Material active face		PBT				
ı		CCC CE				
W12X1	55. 50 50 2 Clampout	18.50	4. 50 W12X1 W12X1	50. 50 18. 50 45 0 18. 50	W12X1	
	shielded nce on distance c) ferential ct octed object e (V) ent (mA) (mA) (Vp) cuit sperature C sage	Shield NC Non shielded NC Shield Non shielded Non shielded Shield	Shield NO LN12Y-Z2NK NC NO NO LN12Y-Z4NK NC LN12Y-Z4NK NC LN12Y-Z4NK NC LN12Y-Z4NB NC LN12Y-ZANE LN12Y-ZANE LN12Y	Shield NO	Shield NO	

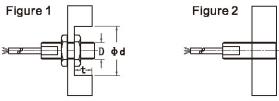


■ Installation conditions

Non shielded proximity switches can achieve maximum operating distance (with the diameter of the relevant); but in order to prevent the switch around the metal impact on the switch, the sensor head must be in a certain gap with the surrounding metal (Figure 1).

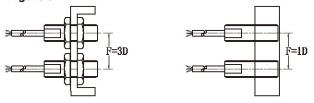
Due to the special shielding effect inside the shield, the radial magnetic field of the side is reduced, and the induction distance is about 60% of the non shield type, because it can be flush mounted in the metal (Figure 2).

The magnetic sensor is not affected by the conditions of installation, as long as the material around the material is not magnetized.



In order to prevent mutual interference, we must keep the minimum distance between each other (Figure 3).

Figure 3

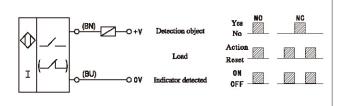


Please refer to the specific data of various types of instructions.

■ Output mode and electrical characteristics

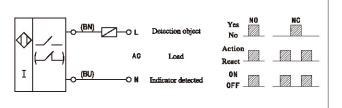
DC two-wire system NO or NC

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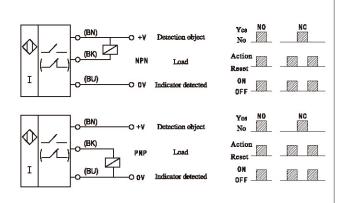


AC two-wire system NO or NC

The load must be connected in series in the sensor, in the closed circuit, the switching element has a smaller voltage drop.



DC three-wire system(N,P type) NO or NC







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8.4 45		DC-3	DC-3Wires		AC-2Wires	
Menuting	Output	NPN	PNP	1	1	
	NO	LN18Y-Z5NK	LN18Y-Z5PK	LN18Y-Z5DK	LN18Y-A5AK	
Shield	NC	LN18Y-Z5NB	LN18Y-Z5PB	LN18Y-Z5DB	LN18Y-A5AB	
Non shielded	NO	LN18Y-Z8NK	LN18Y-Z8PK	LN18Y-Z8DK	LN18Y-A8AK	
	NC	LN18Y-Z8NB	LN18Y-Z8PB	LN18Y-Z8DB	LN18Y-A8AB	
Sensing distance		5mm ± 10%	5mm ± 10%	5mm ± 10%	5mm ± 10%	
		8mm ± 10%	8mm ± 10%	8mm ± 10%	8mm ± 10%	
Freguncy (Hz)		0 – 4mm	0-4mm	0-4mm	0-4mm	
		0-6.4mm	0-6.4mm	0-6.4mm	0-6.4mm	
		0.6KHZ	0.6KHZ	0.5KHZ	25HZ	
		0.2KHZ	0.2KHZ	0.4KHZ	25HZ	
erential						
ct		Magnetic metal (nonmagnetic metal detection distance will be shorter)				
cted object		Iron 18X18X1mm				
e (V)		DC12~24V ripple wave(p-p)Max 109		6 (DC10~30V) AC24~240V 50/60I		
ent (mA)		1		0.8mA Max	1.7mA Max	
(mA)		13mA Max		1	1	
nA)		200mA Max		5~200mA	5~200mA	
(Vp)		2V Max		3V Max	3V Max	
Protection circuit		surge protection circuit, reverse polarity protection circuit, overcurrent protection circuit		pulse absorption overcurrent protection circuit	surge protection circuit	
		yellow LED		Motion: Yellow LED	yellow LED	
				•	- NO\	
perature C			<u> </u>			
age		AC1,000V 50/60Hz 1min between the whole and shell AC2,000V 50/60Hz 1min between the whole and shell 1.5mm amplitude at frequency of 10 to 55Hz(for 1min.)				
		in each of X,Y,Z directions for 2 hours				
SS		IEC standard IP67,intracompany standard:oil resistant,temperature Resistance				
ode		semi-pluggable (30cm)				
	Housing	Nickel plated brass				
orass	Material active face	PBT				
1	l.	CCC CE				
W16X1 [/]	57 50 2 Clampnut	21 // e1	8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	52 21 45 (/ / / / / / / / / / / / / / / / / / /	NI IXII 4.8 standard length MAX300mm	
	Shield Non shielded nce on distance on d	Shield NO NC Non Shielded NC Shield Non shielded For the (V) Shield Non shielded Shield Non shielded For the (V) Shield For the (V) For the (V	Shield NC LN18Y-Z5NK NON Shield NC LN18Y-Z5NB NON Shield NC LN18Y-Z8NB NON Shield NC LN18Y-Z8NB NON Shield Smm±10% Non shielded 8mm±10% Non shielded 0-4mm Non shielded 0-6.4mm Shield 0.6KHZ Non shielded 0.2KHZ erential ct Magnetic cted object se (V) DC12~24V right (mA) (mA) 13mm (mA) 13mm (Np) 200m (Np) 2V Surge prote reverse polarity overcurrent protections of the company of th	NPN	No	

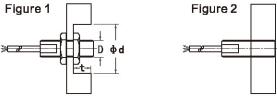


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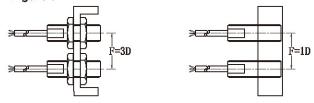
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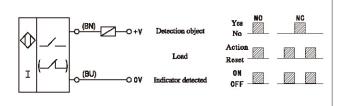


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■ Output mode and electrical characteristics

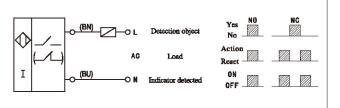
DC two-wire system NO or NC

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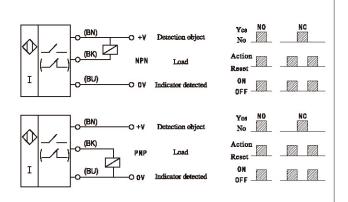


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specification	Menuting	Output	DC-3Wires		DC-2Wires	AC-2Wires	
		Output	NPN	PNP	1	1	
	Shield	NO	LN30Y-Z10NK	LN30Y-Z10PK	LN30Y-Z10DK	LN30Y-A10AK	
		NC	LN30Y-Z10NB	LN30Y-Z10PB	LN30Y-Z10DB	LN30Y-A10AB	
	Non shielded	NO	LN30Y-Z15NK	LN30Y-Z15PK	LN30Y-Z15DK	LN30Y-A15AK	
		NC	LN30Y-Z15NB	LN30Y-Z15PB	LN30Y-Z15DB	LN30Y-A15AB	
Sensing distance		Shield	10mm ± 10%	10mm ± 10%	10mm ± 10%	10mm ± 10%	
		Non shielded	15mm ± 10%	15mm ± 10%	15mm ± 10%	15mm ± 10%	
Rated detection distance		Shield	0-8mm	0-8mm	0-8mm	0-8mm	
		Non shielded	0 – 12mm	0 – 12mm	0 – 12mm	0 – 12mm	
Frequncy (Hz)		Shield	0.4KHZ	0.4KHZ	0.4KHZ	25HZ	
		Non shielded	0.1KHZ	0.1KHZ	0.1KHZ	25HZ	
Movement differential			Max.10% of sensing distance				
Detected object	at		Magnetic metal (nonmagnetic metal detection distance will be shorter)				
Standard detected object			Iron 30X30X1mm				
Supply Voltage (V)			DC12~24V ripple wave(p-p)Max 10%		% (DC10~30V)	AC24~240V 50/60Hz	
Leakage current (mA)			1		0.8mA Max	1.7mA Max	
Consumption (mA)			13mA Max		1	1	
Load current(mA)			200mA Max		5~200mA	5~200mA	
Voltage drop (Vp)			2V Max		3V Max	3V Max	
Protection circuit		surge protection circuit, reverse polarity protection circuit, overcurrent protection circuit		pulse absorption overcurrent protection circuit	surge protection circuit		
LED Display		yellow LED		Motion: Yellow LED Stable: Green LED	yellow LED		
Operating tem	noroturo °C		Working: - 25~ + 70° C, Keeping: - 40~ + 85° C (NO icing NO condensation)			a NO condensation)	
	'		A 02 000V F0/90U In 4				
Withstand volta	age		between the whole and si				
Vibration			1.5mm amplitude at frequency of 10 to 55Hz(for 1min.) in each of X,Y,Z directions for 2 hours				
Protection clas	530.8		IEC standard IP67, intracompany standard: oil resistant, temperature Resistance				
Connection mo	ode		semi-pluggable (30cm)				
Nickel plated brass Housing Material active face		Nickel plated brass					
			РВТ				
Authentication			CCC CE				
35. 80 73 15 50 10 50 15 10 15 10 15 15 15 15 15 15 15 15 15 15 15 15 15							

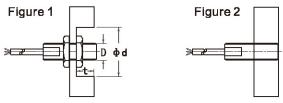


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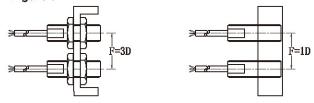
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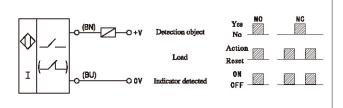


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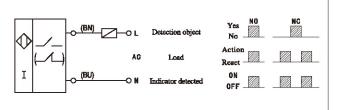
DC two-wire system NO or NC

The load must be connected in series in the sensor to work, there is a polarity and short circuit protection function; in the open circuit state, there is a very small leakage current; in the closed circuit, the switching element has a smaller voltage drop.



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