

Product features

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

With waterproof, anti oil, temperature and other advantages

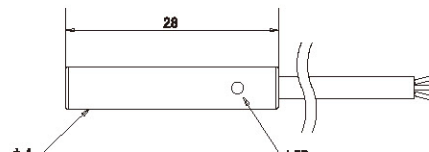
Yellow LED display can detect sensor work status

IP67 protection structure (IEC specification)

Before use, please read the product specification "



Model specification

specification	Menuting	Output	DC-3Wires		DC-2Wires	AC-2Wires
	Shield		NPN	PNP	/	/
		NO	LN4Y-Z1NK	LN4Y-Z1PK	LN4Y-Z1DK	/
		NC	LN4Y-Z1NB	LN4Y-Z1PB	LN4Y-Z1DB	/
Sensing distance		Shield	1mm±15%	1mm±15%	1mm±15%	/
Rated detection distance		Shield	0-0.7mm	0-0.7mm	0-0.7mm	/
Frequency(Hz)		Shield	2.5KHZ	2.5KHZ	2.5KHZ	/
Shield		Max.15% of sensing distance				
Detected object		Magnetic metal (nonmagnetic metal detection distance will be shorter)				
Standard detected object		Iron 5X5X1mm				
Supply Voltage(V)		DC12~24V ripple wave(p-p)Max 10% (DC10~30V)				/
Leakage current(mA)		/			1mA Max	/
Consumption(mA)		17mA Max			/	/
Load current(mA)		100mA Max			5~100mA	/
Voltage drop(Vp)		2V Max			3V Max	/
Protection		Surge protection circuit, Reverse polarity protection circuit, Overcurrent protection circuit			Pulse absorption, Overcurrent protection circuit	/
LED display		yellow LED			motion:yellow LED	/
Operating temperature℃		Working: -25~+70℃, Keeping: -40~+85℃(NO icing NO condensation)				
Withstand voltage		AC1,000V 50/60Hz 1min between the whole and shell				AC2,000V 50/60Hz 1min between the whole and shell
Vibration		1.5mm amplitude at frequency of 10 to 55Hz(for 1min.)in each of X,Y,Z directions for 2 hours				
Protection class		IEC standard IP67, intracompany standard : oil resistant , temperature Resistance				
Connection mode		2M lead wire type				
Nickel plated brass	Housing	Nickel plated brass				
	Material active face	PBT				
Authentication		CCC CE				
Product size chart		<div></div> <p>*1.PU insulated round wire 3.8 standard length MAX300mm</p>				

■ 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.

Figure 1

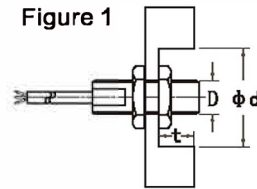
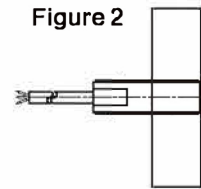
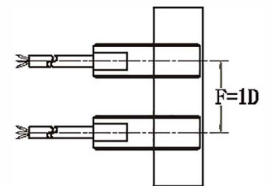
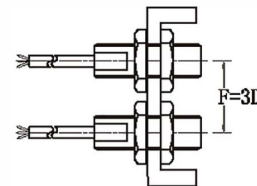


Figure 2



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

Figure 3

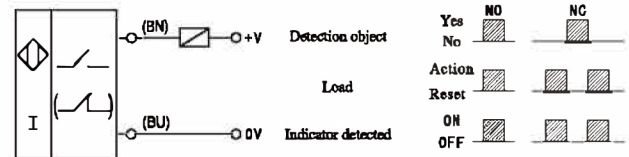


Please refer to the specific data of various types of instructions.

■ Output mode and electrical characteristics

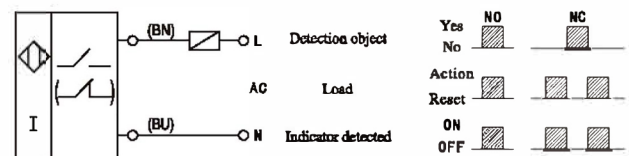
DC two-wire system NO or NC

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.



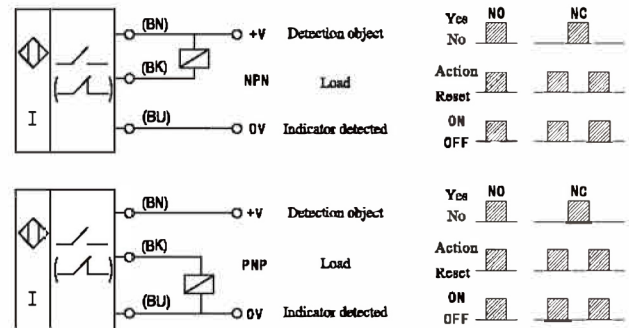
AC two-wire system NO or NC

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

These switches are connected to the load and power supply separately; the polarity, short circuit and overload protection function, and the residual current can be ignored.



Product features

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

With waterproof, anti oil, temperature and other advantages

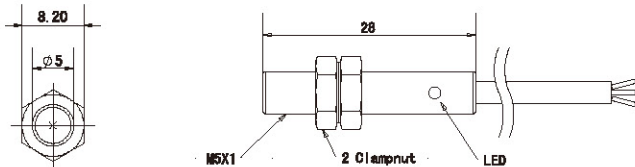
Yellow LED display can detect sensor work status

IP67 protection structure (IEC specification)

Before use, please read the product specification "



Model specification

specification	Menuting	Output	DC-3Wires		DC-2Wires	AC-2Wires
			NPN	PNP	/	/
		Shield	NO	LN5Y-Z1NK	LN5Y-Z1PK	LN5Y-Z1DK
		NC	LN5Y-Z1NB	LN5Y-Z1PB	LN5Y-Z1DB	/
Sensing distance		Shield	1mm± 15%	1mm± 15%	1mm± 15%	/
Rated detection distance		Shield	0-0.7mm	0-0.7mm	0-0.7mm	/
Frequency(Hz)		Shield	2.5KHZ	2.5KHZ	2.5KHZ	/
Shield		Max.15% of sensing distance				
Detected object		Magnetic metal (nonmagnetic metal detection distance will be shorter)				
Standard detected object		Iron 5X5X1mm				
Supply Voltage(V)		DC12~24V ripple wave(p-p)Max 10% (DC10~30V)				/
Leakage current(mA)		/			1mA Max	/
Consumption(mA)		17mA Max			/	/
Load current(mA)		100mA Max			5~100mA	/
Voltage drop(Vp)		2V Max			3V Max	/
Protection		Surge protection circuit, Reverse polarity protection circuit, Overcurrent protection circuit			Pulse absorption, Overcurrent protection circuit	/
LED display		yellow LED			motion:yellow LED	/
Operating temperature℃		Working: -25~+70℃, Keeping: -40~+85℃(NO icing NO condensation)				/
Withstand voltage		AC1,000V 50/60Hz 1min between the whole and shell				AC2,000V 50/60Hz 1min between the whole and shell
Vibration		1.5mm amplitude at frequency of 10 to 55Hz(for 1min.)in each of X,Y,Z directions for 2 hours				
Protection class		IEC standard IP67, intracompany standard : oil resistant , temperature Resistance				
Connection mode		2M lead wire type				
Nickel plated brass	Housing	Nickel plated brass				
	Material active face	PBT				
Authentication		CCC CE				
Product size chart		<div></div>				

■ 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.

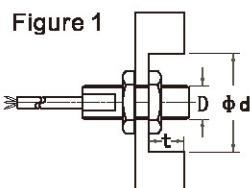


Figure 1

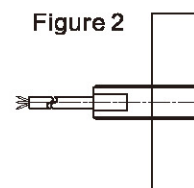


Figure 2

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

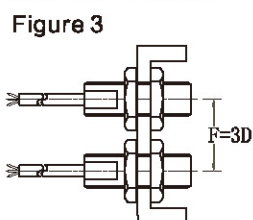
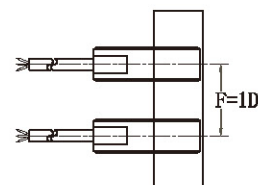


Figure 3

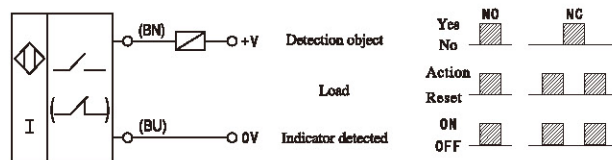


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■ Output mode and electrical characteristics

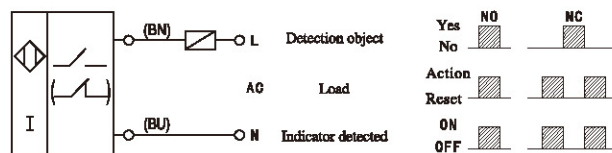
DC two-wire system NO or NC

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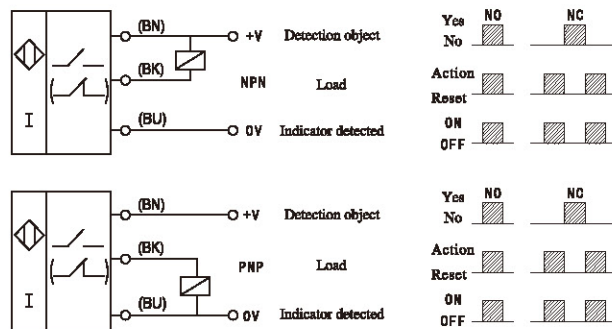
AC two-wire system NO or NC

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

These switches are connected to the load and power supply separately; the polarity, short circuit and overload protection function, and the residual current can be ignored.



Product features

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

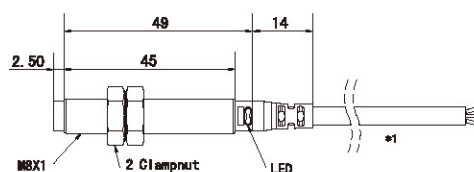
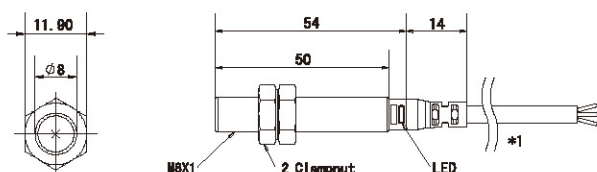
IP67 protection structure (IEC specification)

Before use, please read the product specification "



Model specification

specification	Menuting	Output	DC-3Wires		DC-2Wires	AC-2Wires
	Shield		NPN	PNP	/	/
		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
		NC	LN8Y-Z2NB	LN8Y-Z2PB	LN8Y-Z2DB	LN8Y-A2AB
Sensing distance		Shield	1mm ± 10%	1mm ± 10%	1mm ± 10%	1mm ± 10%
		Non shielded	2mm ± 10%	2mm ± 10%	2mm ± 10%	2mm ± 10%
Rated detection distance		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
Frequency (Hz)		Shield	2KHZ	2KHZ	1.5KHZ	25HZ
		Non shielded	0.8KHZ	0.8KHZ	1KHZ	25HZ
Movement differential			Max.10% of sensing distance			
Detected object			Magnetic metal (nonmagnetic metal detection distance will be shorter)			
Standard detected object			Iron 8X8X1mm			
Supply Voltage (V)			DC12~24V ripple wave(p-p)Max 10% (DC10~30V)			AC24 ~ 240V 50/60Hz
Leakage current (mA)			/		0.8mA Max	1.7mA Max
Consumption (mA)			13mA Max		/	/
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 temperature℃			Working: - 25 ~ + 70° C, Keeping: - 40 ~ + 85° C (NO icing NO condensation)			
Withstand voltage			AC1,000V 50/60Hz 1min between the whole and shell			AC2,000V 50/60Hz 1min between the whole and shell
Vibration			1.5mm amplitude at frequency of 10 to 55Hz(for 1min.) in each of X,Y,Z directions for 2 hours			
Protection class			IEC standard IP67,intracompany standard:oil resistant,temperature Resistance			
Connection mode			2M lead wire type			
Nickel plated brass		Housing	Nickel plated brass			
		Material active face	PBT			
Authentication			CCC CE			



*1. PU insulated round wire 3.8 standard length MAX300mm

■ 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).

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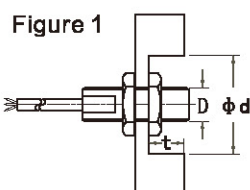


Figure 1

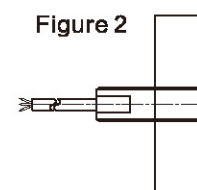


Figure 2

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

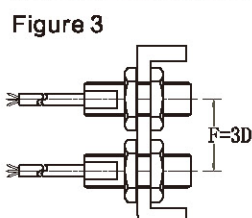
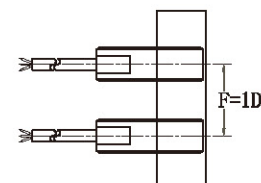


Figure 3

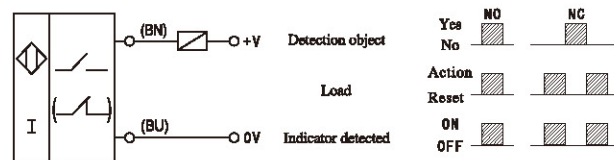


Please refer to the specific data of various types of instructions.

■ Output mode and electrical characteristics

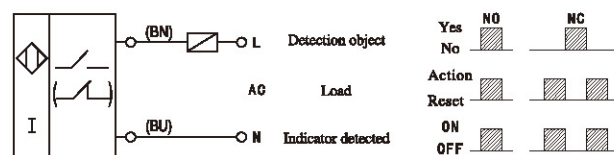
DC two-wire system NO or NC

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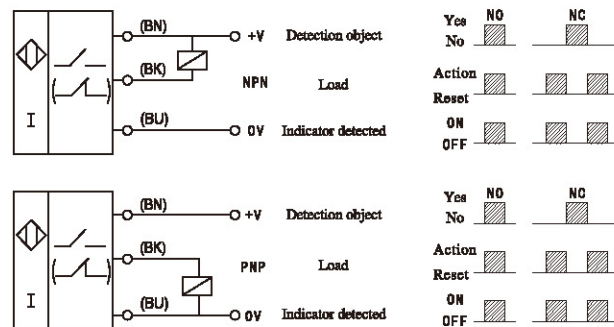
AC two-wire system NO or NC

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

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Product features

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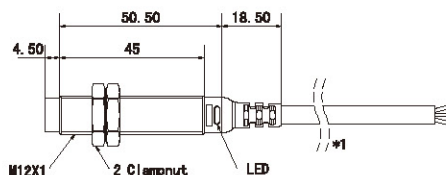
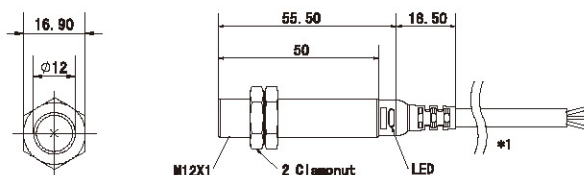
IP67 protection structure (IEC specification)

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Model specification

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	Shield		NPN	PNP	/	/
		NO	LN12Y-Z2NK	LN12Y-Z2PK	LN12Y-Z2DK	LN12Y-A2AK
		NC	LN12Y-Z2NB	LN12Y-Z2PB	LN12Y-Z2DB	LN12Y-A2AB
		Non shielded	NO	LN12Y-Z4NK	LN12Y-Z4PK	LN12Y-Z4DK
		NC	LN12Y-Z4NB	LN12Y-Z4PB	LN12Y-Z4DB	LN12Y-A4AB
Sensing distance		Shield	2mm ± 10%	2mm ± 10%	2mm ± 10%	2mm ± 10%
		Non shielded	4mm ± 10%	4mm ± 10%	4mm ± 10%	4mm ± 10%
Rated detection distance		Shield	0 – 1.6mm	0 – 1.6mm	0 – 1.6mm	0 – 1.6mm
		Non shielded	0 – 3.2mm	0 – 3.2mm	0 – 3.2mm	0 – 3.2mm
Frequency (Hz)		Shield	1.5KHZ	1.5KHZ	1KHZ	25HZ
		Non shielded	0.4KHZ	0.4KHZ	0.8KHZ	25HZ
Movement differential			Max.10% of sensing distance			
Detected object			Magnetic metal (nonmagnetic metal detection distance will be shorter)			
Standard detected object			Iron 12X12X1mm			
Supply Voltage (V)			DC12~24V ripple wave(p-p)Max 10% (DC10~30V)			AC24 ~ 240V 50/60Hz
Leakage current (mA)			/		0.8mA Max	1.7mA Max
Consumption (mA)			13mA Max		/	/
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	yellow LED
					Stable: Green LED	
Operating temperature℃			Working: - 25 ~ + 70° C, Keeping: - 40 ~ + 85° C (NO icing NO condensation)			
Withstand voltage			AC1,000V 50/60Hz 1min between the whole and shell			AC2,000V 50/60Hz 1min between the whole and shell
Vibration			1.5mm amplitude at frequency of 10 to 55Hz(for 1min.) in each of X,Y,Z directions for 2 hours			
Protection class			IEC standard IP67,intracompany standard:oil resistant,temperature Resistance			
Connection mode			2M lead wire type			
Nickel plated brass		Housing	Nickel plated brass			
		Material active face	PBT			
Authentication			CCC CE			



*1. PU insulated round wire 4.8 standard length MAX300mm

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Figure 1

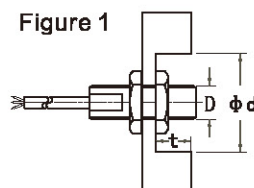
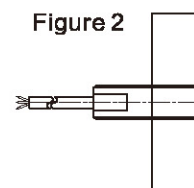
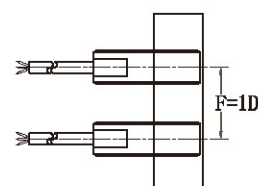
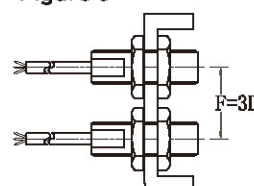


Figure 2



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

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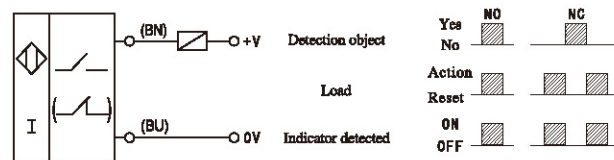


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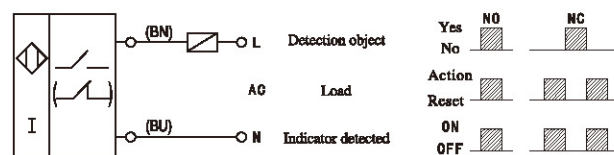
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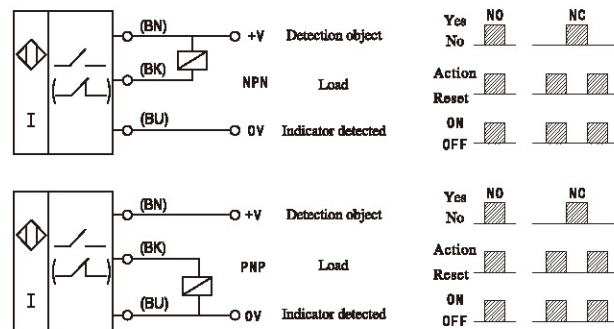
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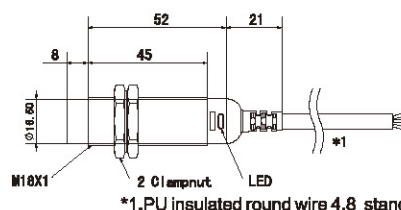
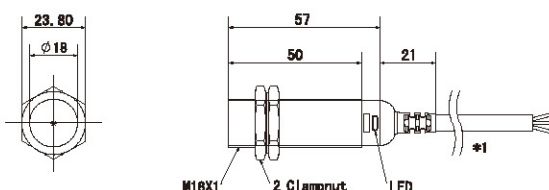
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Model specification

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			NPN	PNP	/	/
	Shield	NO	LN18Y-Z5NK	LN18Y-Z5PK	LN18Y-Z5DK	LN18Y-A5AK
Sensing distance	Non shielded	NC	LN18Y-Z5NB	LN18Y-Z5PB	LN18Y-Z5DB	LN18Y-A5AB
		NO	LN18Y-Z8NK	LN18Y-Z8PK	LN18Y-Z8DK	LN18Y-A8AK
	Non shielded	NC	LN18Y-Z8NB	LN18Y-Z8PB	LN18Y-Z8DB	LN18Y-A8AB
Rated detection distance	Non shielded	Shield	5mm ± 10%	5mm ± 10%	5mm ± 10%	5mm ± 10%
		Non shielded	8mm ± 10%	8mm ± 10%	8mm ± 10%	8mm ± 10%
Frequency (Hz)	Non shielded	Shield	0 - 4mm	0 - 4mm	0 - 4mm	0 - 4mm
		Non shielded	0 - 6.4mm	0 - 6.4mm	0 - 6.4mm	0 - 6.4mm
Movement differential	Non shielded	Shield	0.6KHZ	0.6KHZ	0.5KHZ	25HZ
		Non shielded	0.2KHZ	0.2KHZ	0.4KHZ	25HZ
Detected object	Max.10% of sensing distance					
Standard detected object	Magnetic metal (nonmagnetic metal detection distance will be shorter)					
Supply Voltage (V)	Iron 18X18X1mm					
Leakage current (mA)	DC12~24V ripple wave(p-p)Max 10% (DC10~30V)			AC24 ~ 240V 50/60Hz		
Consumption (mA)	/			0.8mA Max		
Load current(mA)	13mA Max			/		
Voltage drop (Vp)	200mA Max			5 ~ 200mA		
Protection circuit	2V Max			3V Max		
LED Display	surge protection circuit, reverse polarity protection circuit, overcurrent protection circuit			pulse absorption overcurrent protection circuit		
				surge protection circuit		
Operating temperature℃	yellow LED			Motion: Yellow LED		
				Stable: Green LED		
Withstand voltage	Working: - 25 ~ + 70° C, Keeping: - 40 ~ + 85° C (NO icing NO condensation)			yellow LED		
Vibration	AC1,000V 50/60Hz 1min between the whole and shell			AC2,000V 50/60Hz 1min between the whole and shell		
Protection class	1.5mm amplitude at frequency of 10 to 55Hz(for 1min.) in each of X,Y,Z directions for 2 hours					
Connection mode	IEC standard IP67, intracompany standard: oil resistant, temperature Resistance					
Nickel plated brass	2M lead wire type					
	Housing			Nickel plated brass		
Authentication	Material active face			PBT		
Authenticaiton				CCC CE		



*1. PU insulated round wire 4.8 standard length MAX300mm

■ 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.

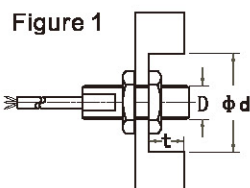


Figure 1

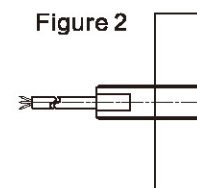


Figure 2

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

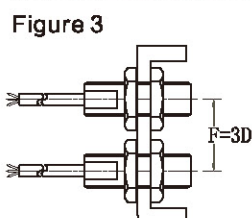
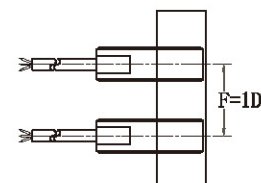


Figure 3

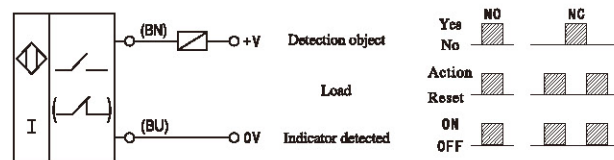


Please refer to the specific data of various types of instructions.

■ Output mode and electrical characteristics

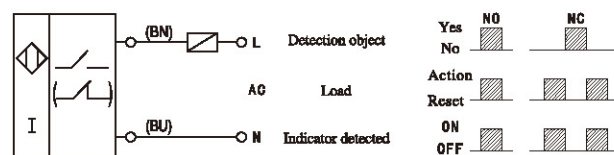
DC two-wire system NO or NC

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.



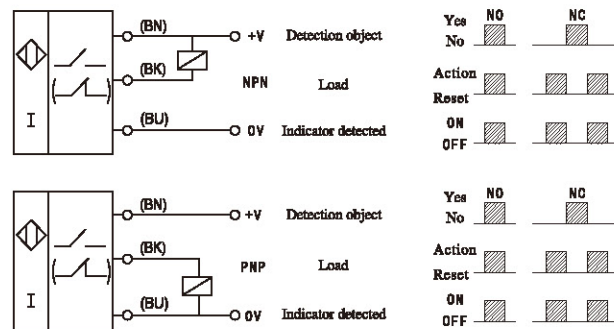
AC two-wire system NO or NC

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

These switches are connected to the load and power supply separately; the polarity, short circuit and overload protection function, and the residual current can be ignored.



Product features

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

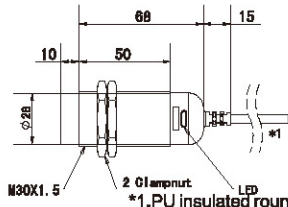
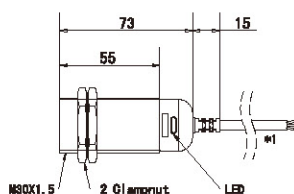
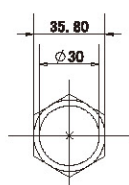
IP67 protection structure (IEC specification)

Before use, please read the product specification "



Model specification

specification	Menuting	Output	DC-3Wires		DC-2Wires	AC-2Wires
	Shield		NPN	PNP	/	/
		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
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
Frequency (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			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)			/		0.8mA Max	1.7mA Max
Consumption (mA)			13mA Max		/	/
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	yellow LED
					Stable: Green LED	
Operating temperature℃			Working: - 25 ~ + 70° C, Keeping: - 40 ~ + 85° C (NO icing NO condensation)			
Withstand voltage			AC1,000V 50/60Hz 1min between the whole and shell			AC2,000V 50/60Hz 1min between the whole and shell
Vibration			1.5mm amplitude at frequency of 10 to 55Hz(for 1min.) in each of X,Y,Z directions for 2 hours			
Protection class			IEC standard IP67,intracompany standard:oil resistant,temperature Resistance			
Connection mode			2M lead wire type			
Nickel plated brass		Housing	Nickel plated brass			
		Material active face	PBT			
Authentication			CCC CE			



■ Installation conditions

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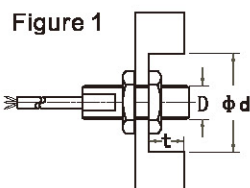


Figure 1

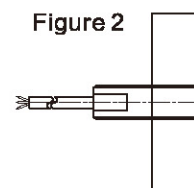


Figure 2

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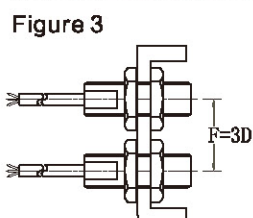
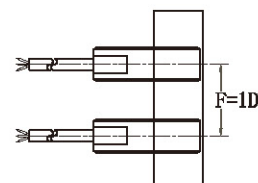


Figure 3

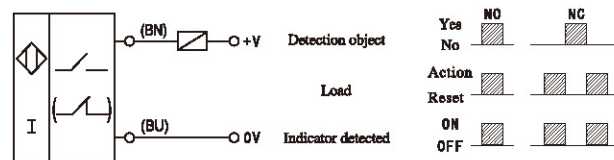


Please refer to the specific data of various types of instructions.

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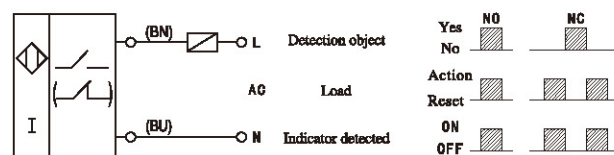
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