

Product features

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

With waterproof, anti oil, temperature and other advantages

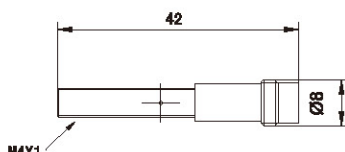
Yellow LED display can detect sensor work status

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			Plug connector type			
Nickel plated brass	Housing	Nickel plated brass				
	Material active face	PBT				
Authentication			CCC CE			
Product size chart						
*1.PU insulated round wire 3.8 standard length MAX300mm						

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■ 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

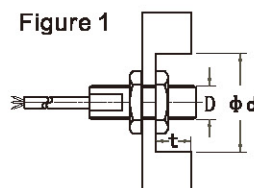
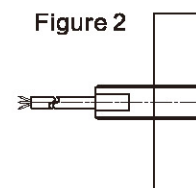
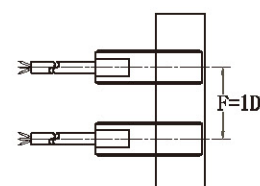
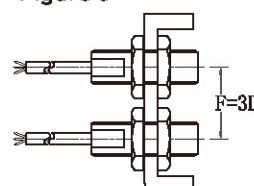


Figure 2



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

Figure 3

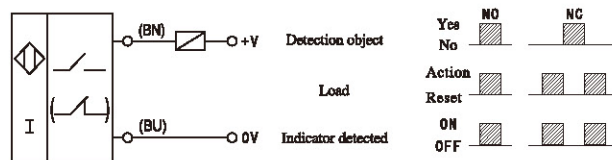


Please refer to the specific data of various types of instructions.

■ Output mode and electrical characteristics

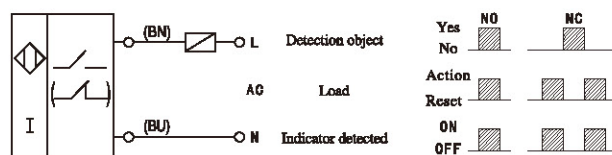
DC two-wire system NO or NC

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.



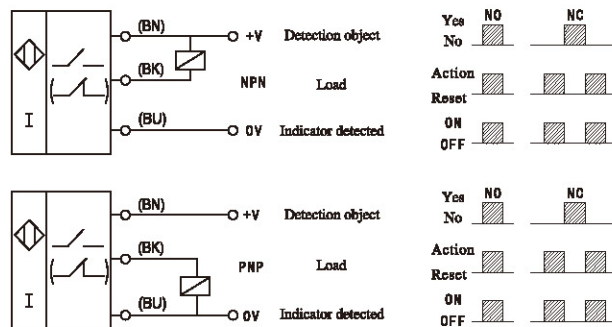
AC two-wire system NO or NC

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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.



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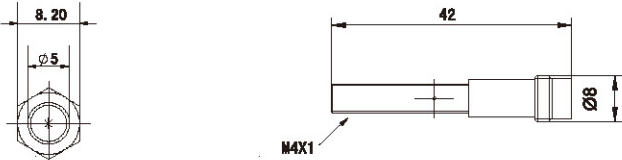
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IP67 protection structure (IEC specification)

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Model specification

specification	Menuting	Output	DC-3Wires		DC-2Wires	AC-2Wires
	Shield		NPN	PNP	/	/
		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	/
					Stable:Green 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			Plug connector type			
Nickel plated brass		Housing	Nickel plated brass			
		Material active face	PBT			
Authentication			CCC CE			
Product size chart			<div></div>			
*1.PU insulated round wire 3.8 standard length MAX300mm						

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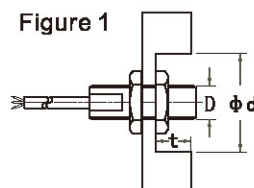
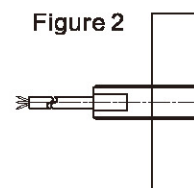
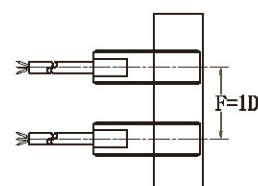
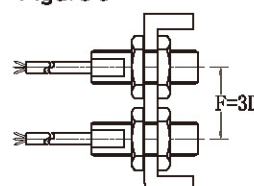


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In order to prevent mutual interference, we must keep the minimum distance between each other (Figure 3).

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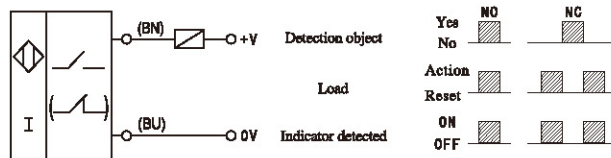


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■ Output mode and electrical characteristics

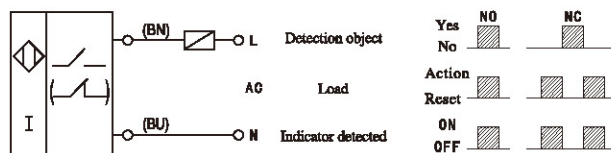
DC two-wire system NO or NC

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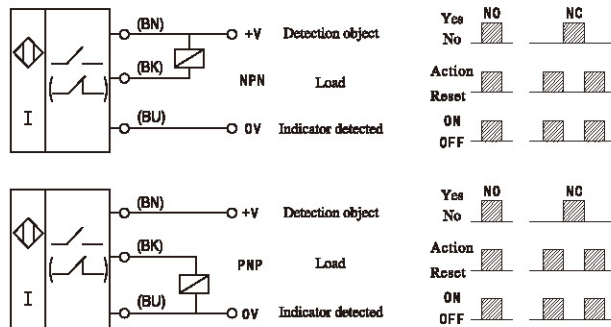
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Product features

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Yellow LED display can detect sensor work status

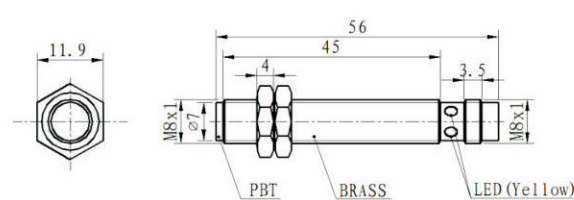
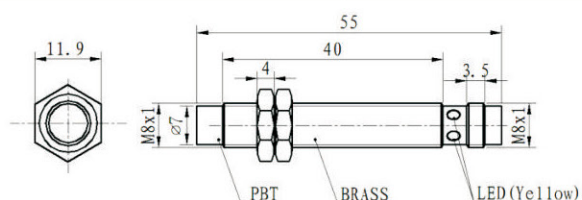
IP67 protection structure (IEC specification)

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	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			Plug connector type			
Nickel plated brass		Housing	Nickel plated brass			
		Material active face	PBT			
Authentication			CCC CE			



■ Installation conditions

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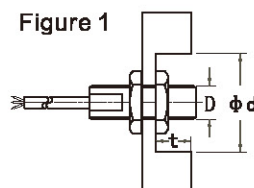
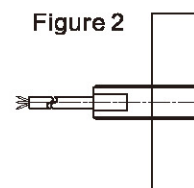
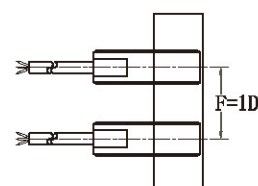
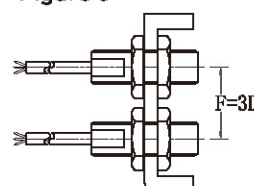


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In order to prevent mutual interference, we must keep the minimum distance between each other (Figure 3).

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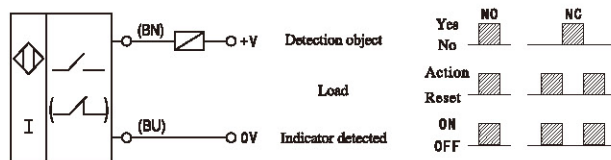


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■ Output mode and electrical characteristics

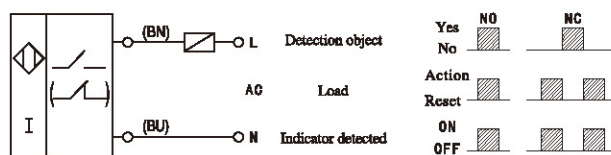
DC two-wire system NO or NC

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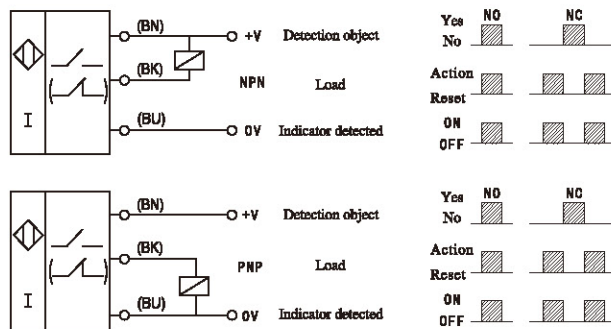
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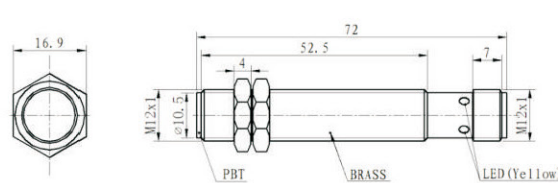
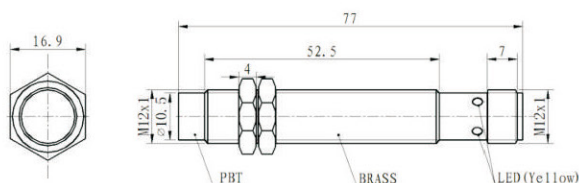
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Model specification

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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	LN12Y-A4AK	
	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			Plug connector type			
Nickel plated brass		Housing	Nickel plated brass			
		Material active face	PBT			
Authentication			CCC CE			



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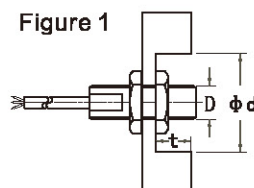
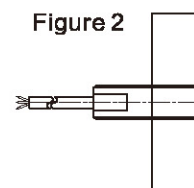
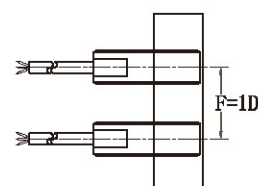
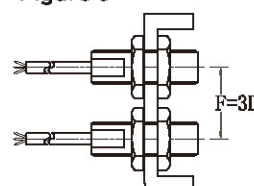


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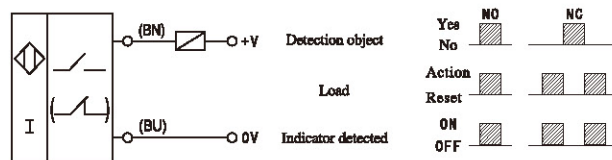


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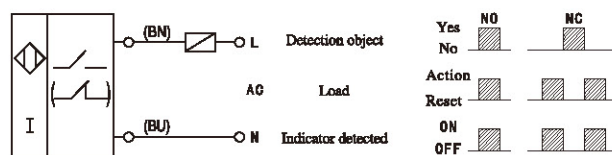
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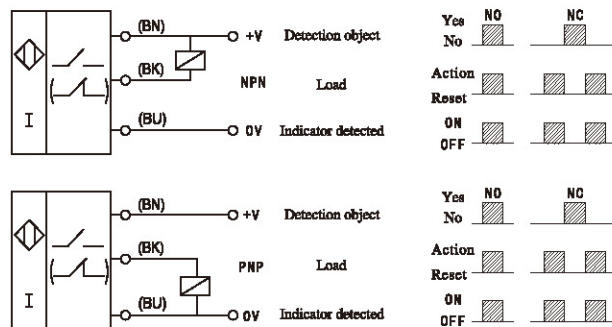
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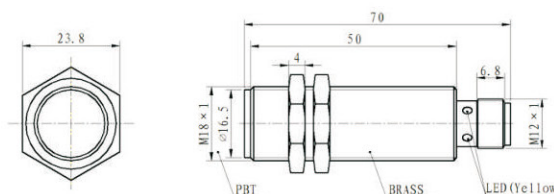
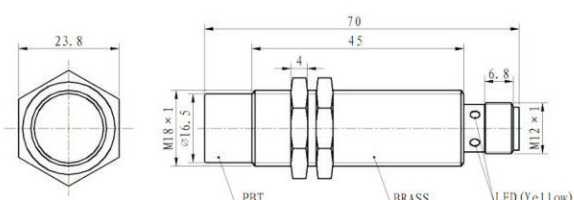
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		NC	LN18Y-Z5NB	LN18Y-Z5PB	LN18Y-Z5DB	LN18Y-A5AB
		Non shielded	NO	LN18Y-Z8NK	LN18Y-Z8PK	LN18Y-Z8DK
		NC	LN18Y-Z8NB	LN18Y-Z8PB	LN18Y-Z8DB	LN18Y-A8AB
Sensing distance		Shield	5mm ± 10%	5mm ± 10%	5mm ± 10%	5mm ± 10%
		Non shielded	8mm ± 10%	8mm ± 10%	8mm ± 10%	8mm ± 10%
Rated detection distance		Shield	0-4mm	0-4mm	0-4mm	0-4mm
		Non shielded	0-6.4mm	0-6.4mm	0-6.4mm	0-6.4mm
Frequency (Hz)		Shield	0.6KHZ	0.6KHZ	0.5KHZ	25HZ
		Non shielded	0.2KHZ	0.2KHZ	0.4KHZ	25HZ
Movement differential			Max.10% of sensing distance			
Detected object			Magnetic metal (nonmagnetic metal detection distance will be shorter)			
Standard detected object			Iron 18X18X1mm			
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			Plug connector type			
Nickel plated brass		Housing	Nickel plated brass			
		Material active face	PBT			
Authentication			CCC CE			



■ 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

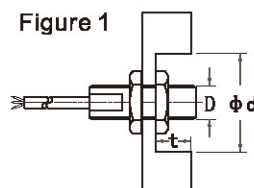
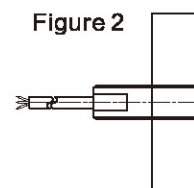
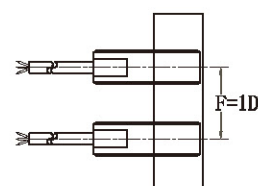
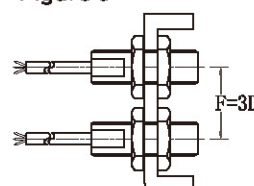


Figure 2



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

Figure 3

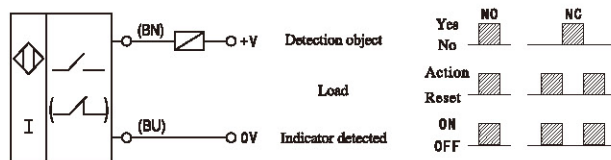


Please refer to the specific data of various types of instructions.

■ Output mode and electrical characteristics

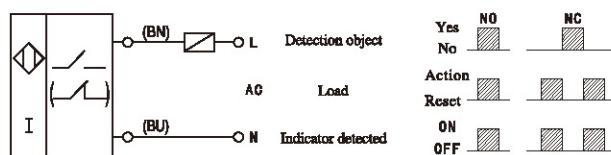
DC two-wire system NO or NC

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.



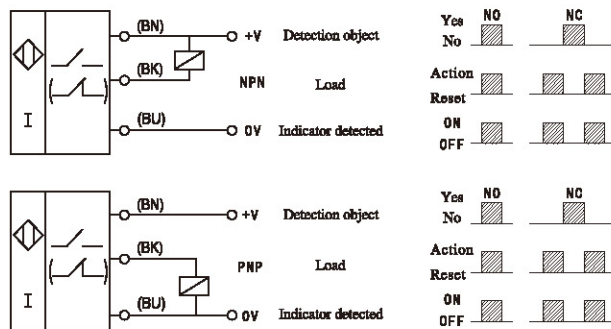
AC two-wire system NO or NC

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

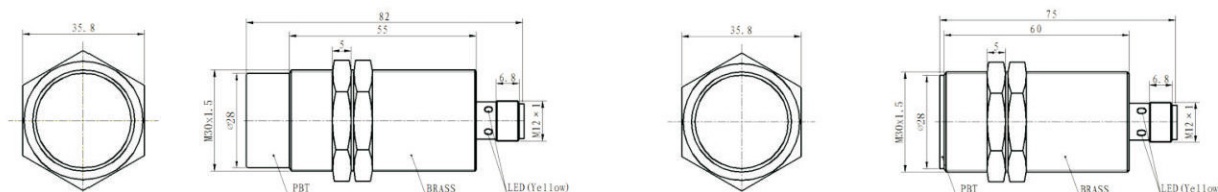
IP67 protection structure (IEC specification)

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
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		Material active face	PBT			
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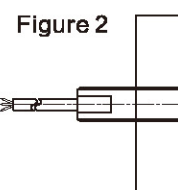
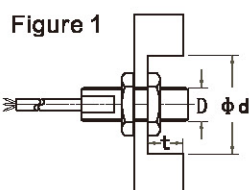


■ Installation conditions

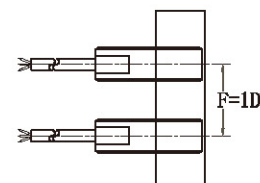
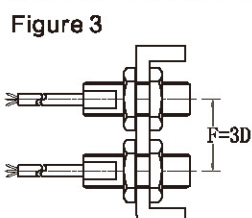
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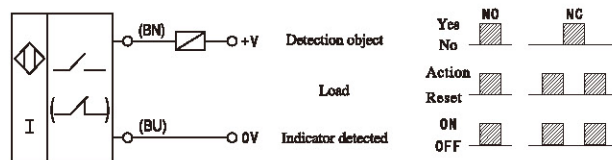


Please refer to the specific data of various types of instructions.

■ Output mode and electrical characteristics

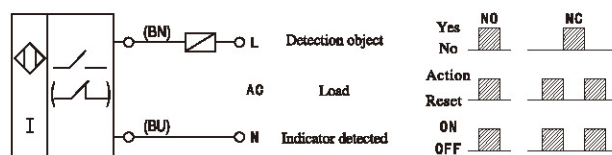
DC two-wire system NO or NC

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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

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.

