

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 "



specification	Menuting	Output	DC-3Wires		DC-2Wires	AC-2Wires		
			NPN	PNP	1	1		
	Objete	NO	LN4Y-Z1NK	LN4Y-Z1PK	LN4Y-Z1DK	1		
	Shield	NC	LN4Y-Z1NB	LN4Y-Z1PB	LN4Y-Z1DB	1		
Sensing distance Shield		Shield	1mm ± 15%	1mm± 15%	1mm ± 15%	1		
Rated detection distance Shield		0-0.7mm	0-0.7mm	0-0.7mm	1			
Frequncy(Hz) Shield		2.5KHZ	2.5KHZ	2.5KHZ	1			
Shield			Max.15% of sensing distance					
Detected object	t		Magnetic	metal (nonmagnetic met	al detection distance will be	shorter)		
Standard detec	ted object			Iron 5>	(5X1mm			
Supply Voltage	(V)		DC12~24V ri	1				
Leakage curren	it(mA)		1		1mA Max	1		
Consumption(m	ıA)		17mA Max		1	1		
Load current(m.	A)		100mA Max		5~100mA	1		
Voltage drop(V <sub>I</sub>	p)		2V Max		3V Max	1		
Protection			Surge protection circuit, Reverse polarity protection circuit, Overcurrent protection circuit		Pulse absorption, Overcurrent protection circuit	1		
LED display			yellow LED		motion:yellow LED	1		
Operating temp	erature*C		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  1 min between the whole and shell  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	3		IEC standard IP67, intracompany standard: oil resistant, temperature Resistance					
Connection mod	de		2M lead wire type					
		Housing	Nickel plated brass					
Nickel plated brass Material active face			РВТ					
Authentication			CCC CE					
Product size chart			28  LED  *1.PU insulated round wire 3.8 standard length MAX300mi					

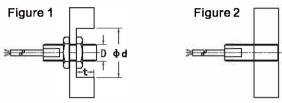


#### ■ Installation conditions

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).

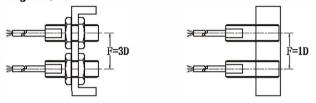
Due to the special shielding effect inside the shield, the radial magnetic field of the side is reduced, and the induction distance is about 60% of the non shield type, because it can be flush mounted in the metal (Figure 2).

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

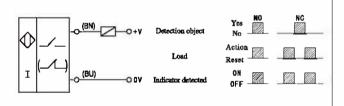


Please refer to the specific data of various types of instructions.

## ■ Output mode and electrical characteristics

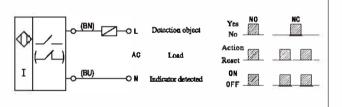
## DC two-wire system NO or NC

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.

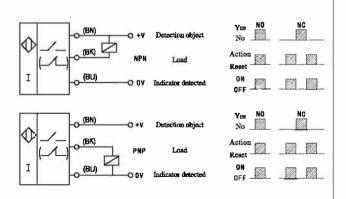


## AC two-wire system NO or NC

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





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)

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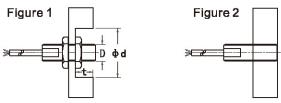
	, comodii		DC-3Wires		DC-2Wires	AC-2Wires		
specification	Menuting	Output	NPN	PNP	1	1		
		NO	LN5Y-Z1NK	LN5Y-Z1PK	LN5Y-Z1DK	1		
	Shield	NC	LN5Y-Z1NB	LN5Y-Z1PB	LN5Y-Z1DB	1		
Sensing distant	ce	Shield	1mm ± 15%	1mm ± 15%	1mm ± 15%	1		
Rated detection distance Shield			0-0.7mm	0-0.7mm	0-0.7mm	1		
Frequncy(Hz) Shield			2.5KHZ	2.5KHZ	2.5KHZ	1		
Shield			Max.15% of sensing distance					
Detected object	t		Magnetic	metal (nonmagnetic meta	al detection distance will be	shorter)		
Standard detec	ted object			Iron 5X	5X1mm			
Supply Voltage	(V)		DC12~24V r	ipple wave(p-p)Max 10%	(DC10~30V)	1		
Leakage currer	nt(mA)		,	1	1mA Max	1		
Consumption(n	nA)		17mA	Max	1	1		
Load current(m	A)		100mA Max		5~100mA	1		
Voltage drop(V	p)		2V Max		3V Max	1		
Protection			Surge protection circuit, Reverse polarity protection circuit, Overcurrent protection circuit		Pulse absorption, Overcurrent protection circuit	1		
LED display			yellow LED		motion:yellow LED	1		
Operating temp	erature*C		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  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	S		IEC standard IP67, intracompany standard: oil resistant, temperature Resistance					
Connection mo	de		2M lead wire type					
		Housing	Nickel plated brass					
Nickel plated br	ass	Material active face	РВТ					
Authentication			CCC CE					
Product size chart			8.20  28  20 Lempnut  LED  *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).

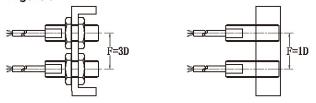
Due to the special shielding effect inside the shield, the radial magnetic field of the side is reduced, and the induction distance is about 60% of the non shield type, because it can be flush mounted in the metal (Figure 2).

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

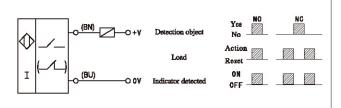


Please refer to the specific data of various types of instructions.

## ■ Output mode and electrical characteristics

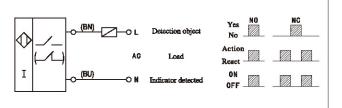
## DC two-wire system NO or NC

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.

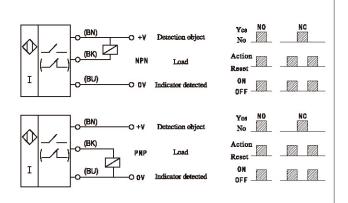


## AC two-wire system NO or NC

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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■ Model S	Menuting		Do	C-3Wires	DC-2Wires	AC-2Wires
specification		Output	NPN	PNP	1	1
	01.11	NO	LN8Y-Z1NK	LN8Y-Z1PK	LN8Y-Z1DK	LN8Y-A1AK
	Shield	NC	LN8Y-Z1NB	LN8Y-Z1PB	LN8Y-Z1DB	LN8Y-A1AB
	Non	NO	LN8Y-Z2NK	LN8Y-Z2PK	LN8Y-Z2DK	LN8Y-A2AK
	shielded	NC	LN8Y-Z2NB	LN8Y-Z2PB	LN8Y-Z2DB	LN8Y-A2AB
Sensing distance  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
	1	Shield	2KHZ	2KHZ	1.5KHZ	25HZ
Frequncy (Hz	)	Non shielded	0.8KHZ	0.8KHZ	1KHZ	25HZ
Movement diffe	erential		Max.10% of sensing distance			
Detected object	at		Magn	etic metal (nonmagnetic m	etal detection distance w	vill be shorter)
Standard deter	cted object		-	Iron 8	3X8X1mm	
Supply Voltage	e(V)		DC12~24\	/ ripple wave(p-p)Max 109	% (DC10~30V)	AC24~240V 50/60Hz
Leakage curre	nt (mA)			1	0.8mA Max	1.7mA Max
Consumption (	mA)		13mA Max		1	1
Load current(n	nA)		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 conder		a NO condensation )	
Operating term	perature C					AC2,000V 50/60Hz 1min
Withstand volta	age		AC1,000V 50/60Hz 1min between the whole and shell  1.5mm amplitude at frequency of 10 to 55Hz(for 1min.)			
Vibration			in each of X,Y,Z directions for 2 hours			
Protection clas	is		IEC standard IP67,intracompany standard:oil resistant,temperature Resistance			
Connection mo	ode			100.25719(100)	ad wire type	
		Housing		Nickel <sub>I</sub>	plated brass	
Nickel plated b	rass	Material active face			РВТ	
Authentication			CCC CE			
11. 90	— — — M6X1 ∕	54 50 2 Clampout	14	2.50 NBX1	49 14 45 2 Clampaut LED	//
,	1000				*1.PU insulated round wire	3.8 standard length MA

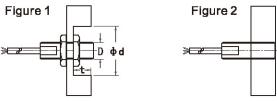


#### ■ Installation conditions

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).

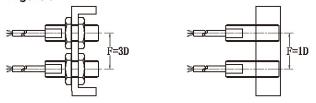
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#### Figure 3

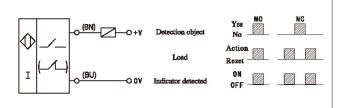


Please refer to the specific data of various types of instructions.

## ■ Output mode and electrical characteristics

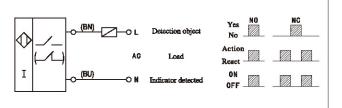
## DC two-wire system NO or NC

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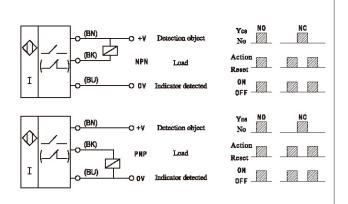


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The load must be connected in series in the sensor, in the closed circuit, the switching element has a smaller voltage drop.



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





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	Manufina		DC-3	Wires	DC-2Wires	AC-2Wires
specification	Menuting	Output	NPN	PNP	1	1
		NO	LN12Y-Z2NK	LN12Y-Z2PK	LN12Y-Z2DK	LN12Y-A2AK
	Shield	NC	LN12Y-Z2NB	LN12Y-Z2PB	LN12Y-Z2DB	LN12Y-A2AB
	Non	NO	LN12Y-Z4NK	LN12Y-Z4PK	LN12Y-Z4DK	LN12Y-A4AK
	shielded	NC	LN12Y-Z4NB	LN12Y-Z4PB	LN12Y-Z4DB	LN12Y-A4AB
Sensing distance  Rated detection distance		Shield	2mm ± 10%	2mm ± 10%	2mm ± 10%	2mm ± 10%
		Non shielded	4mm ± 10% 4mm ± 10%		4mm ± 10%	4mm ± 10%
		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
		Shield	1.5KHZ	1.5KHZ	1KHZ	25HZ
Frequncy (Hz	:)	Non shielded	0.4KHZ	0.4KHZ	0.8KHZ	25HZ
Movement diffe	erential		-	Max.10% of	sensing distance	
Detected object	et		Magnetic		etal detection distance w	vill be shorter)
Standard dete			magnesia		2X12X1mm	mar officially
Supply Voltage			DC12~24V ris	pple wave(p-p)Max 109		
Leakage curre	12 12 12 12 12 12 12 12 12 12 12 12 12 1			/ /	0.8mA Max	1.7mA Max
Consumption (			13mA Max		1	1
Load current(r			200mA Max		5~200mA	5~200mA
Voltage drop (			2V Max		3V Max	3V Max
rollago al op (	· • • • •			15		• • • • • • • • • • • • • • • • • • • •
Protection circ	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
LLD Display					Stable: Green LED	
Operating tem	perature*C		Working: - 25~	+ 70° C, Keeping: -	40~ + 85° C ( NO icin	g NO condensation)
Withstand volt	age		AC1,000V 50/6	60Hz 1min between the	whole and shell	AC2,000V 50/60Hz 1min between the whole and shell
Vibration			1.	5mm amplitude at frequin each of X,Y,Z	uency of 10 to 55Hz(for 1 directions for 2 hours	lmin.)
Protection class	SS		IEC standard I	P67,intracompany star	dard:oil resistant,tempe	rature Resistance
Connection mo	ode			2M lea	d wire type	
		Housing	Nickel plated brass			
Nickel plated b	rass	Material active face			PBT	
Authentication				CC	C CE	
□ 16.90 □ 012	M12X1	55. 50 50 2 Clampout	18. 50 *1	4. 50 M12X1	50. 50 18. 50 45 18. 50	// //*1
					"I.PU insulated round wire	4.8 standard length MAX300mm

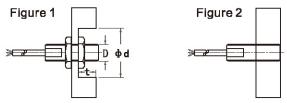


#### Installation conditions

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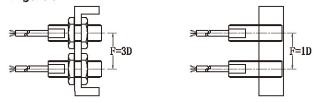
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#### Figure 3

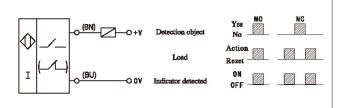


Please refer to the specific data of various types of instructions.

## ■ Output mode and electrical characteristics

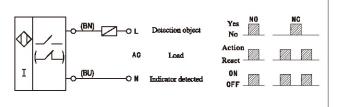
## DC two-wire system NO or NC

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.

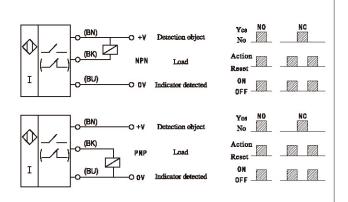


## AC two-wire system NO or NC

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





■ 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)

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		DC-3	3Wires	DC-2Wires	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	NO	LN18Y-Z8NK	LN18Y-Z8PK	LN18Y-Z8DK	LN18Y-A8AK	
shielded	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%	
Rated detection distance		0 – 4mm	0-4mm	0-4mm	0-4mm	
		0-6.4mm	0-6.4mm	0-6.4mm	0-6.4mm	
- 3	Shield	0.6KHZ	0.6KHZ	0.5KHZ	25HZ	
(1)	Non shielded	0.2KHZ	0.2KHZ	0.4KHZ	25HZ	
erential		Max.10% of sensing distance				
ct		Magnetic	metal (nonmagnetic m	etal detection distance w	vill be shorter)	
cted object		-		Control of the Contro		
e(V)		DC12~24V rip	pple wave(p-p)Max 109	% (DC10~30V)	AC24~240V 50/60Hz	
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	
maratura *		•		a NO condensation \		
perature C		(7)	· · · · · · · · · · · · · · · · · · ·		AC2,000V 50/60Hz 1min	
age		between the whole and shell				
		in each of X,Y,Z directions for 2 hours				
SS		IEC standard	<u> </u>	ompany standard:oil resistant,temperature Resistance		
ode			2M lea	d wire type		
	Housing	Nickel plated brass				
Nickel plated brass		PBT				
Authentication			CCC CE			
- M18X1 <sup>/</sup>	57 50 2 Clamprut.	21 *1	8 9 9 0	52 21 45 10 10 131	*1 4.8 standard length MAX300mm	
	ferential ct ctcted object e (V) ent (mA) (mA) mA) (Vp) cuit dege	Shield NC Non shielded NC Shield Non shielded Serential ct seted object e (V) ent (mA) (mA) mA) (Vp) suit sperature C sage ss ode Housing Material active face	Shield  NO LN18Y-Z5NK NC LN18Y-Z5NB NO Shield NC LN18Y-Z8NK NC LN18Y-Z8NK NC LN18Y-Z8NB NC Shield	Shield   NO	Shield   NO	

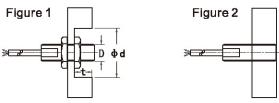


#### Installation conditions

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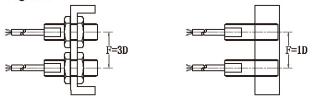
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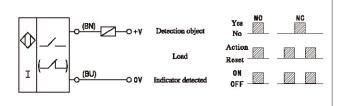


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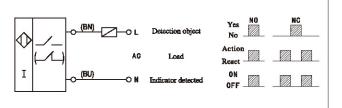
## DC two-wire system NO or NC

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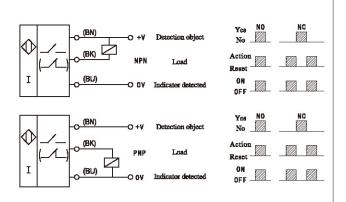


## AC two-wire system NO or NC

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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	Menuting		DC-3Wires		DC-2Wires	AC-2Wires		
specification		Output	NPN	PNP	1	1		
	01:11	NO	LN30Y-Z10NK	LN30Y-Z10PK	LN30Y-Z10DK	LN30Y-A10AK		
	Shield	NC	LN30Y-Z10NB	LN30Y-Z10PB	LN30Y-Z10DB	LN30Y-A10AB		
	Non	NO	LN30Y-Z15NK	LN30Y-Z15PK	LN30Y-Z15DK	LN30Y-A15AK		
	shielded	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%		
		Shield	0 – 8mm	0-8mm	0-8mm	0-8mm		
Rated detectio	Rated detection distance		0 – 12mm	0 – 12mm	0 – 12mm	0 – 12mm		
		Shield	0.4KHZ	0.4KHZ	0.4KHZ	25HZ		
Frequncy (Hz	)	Non shielded	0.1KHZ	0.1KHZ	0.1KHZ	25HZ		
Movement diffe	erential			Max.10% of	sensing distance			
Detected object	:t		Magnetic	1/20/2 to 1/20/20/20/20/20/20/20/20/20/20/20/20/20/	etal detection distance w	vill be shorter)		
Standard detec	1000				)X30X1mm			
Supply Voltage			DC12~24V ri	pple wave(p-p)Max 10%		AC24~240V50/60Hz		
Leakage curre				1	0.8mA Max	1.7mA Max		
Consumption (			13mA Max		1	1		
Load current(m			200mA Max		5~200mA	5~200mA		
Voltage drop (			2V Max		3V Max	3V Max		
Protection circ	ction 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		
Operating terms	a a ratura Y		Working: - 25~ + 70° C, Keeping: -		Stable: Green LED	a NO condensation )		
Operating temp						AC2,000V 50/60Hz 1min		
Withstand volta	age		3.2000000 No - 1000000000000 No 0000000000000000000000	60Hz 1min between the	whole and shell uency of 10 to 55Hz(for 1	between the whole and shell		
Vibration				in each of X,Y,Z	directions for 2 hours			
Protection clas	S		IEC standard IP67,intracompany standard:oil resistant,temperature Resistance					
Connection mo	ode		2M lead wire type					
		Housing	Nickel plated brass					
Nickel plated b	Nickel plated brass Material active face		PBT					
Authentication			CCC CE					
35. 80 Ø 30		NSOX1. 5 2 Clamprut LED N3OX1. 5 2 Clamprut LED *1. PU insulated round wire 4.8 standard length MAX30				4.8. standard length MAY300mm		

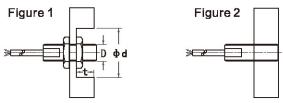


#### Installation conditions

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).

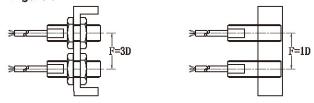
Due to the special shielding effect inside the shield, the radial magnetic field of the side is reduced, and the induction distance is about 60% of the non shield type, because it can be flush mounted in the metal (Figure 2).

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

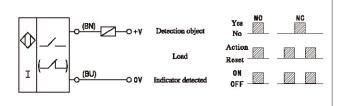


Please refer to the specific data of various types of instructions.

## ■ Output mode and electrical characteristics

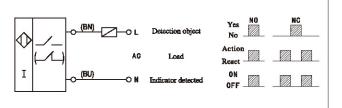
## DC two-wire system NO or NC

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

