

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 "



Comean	OII						
Menuting	Output	DC-3\	Vires	DC-2Wires	AC-2Wires		
	Output	NPN	PNP	1	1		
Ohield	NO	LN4Y-Z1NK	LN4Y-Z1PK	LN4Y-Z1DK	1		
Snieid	NC	LN4Y-Z1NB	LN4Y-Z1PB	LN4Y-Z1DB	1		
е	Shield	1mm ± 15%	1mm ± 15%	1mm ± 15%	1		
distance	Shield	0-0.7mm	0-0.7mm	0-0.7mm	1		
	Shield	2.5KHZ	2.5KHZ	2.5KHZ	1		
		Max.15% of sensing distance					
:		Magnetic	metal (nonmagnetic met	al detection distance will be	shorter)		
ted object			Iron 5)	(5X1mm			
(V)		DC12~24V rij	pple wave(p-p)Max 10%	(DC10~30V)	T		
t(mA)		1	1		1		
ıA)		17mA	17mA Max		1		
A)		100mA	100mA Max		1		
o)		2V Max		3V Max	1		
		Surge protection circuit, Reverse polarity protection circuit, Overcurrent protection circuit		Pulse absorption, Overcurrent protection circuit	1		
		yellow LED		motion:yellow LED	1		
erature*C		Working: −25~+70℃, Keeping: −40~+85℃(NO icing NO condensation)					
ge		AC1,000V 50/60Hz 1min between the whole and shell AC2,000V 50/60Hz 1min between the whole and shell whole and shell					
		1.5mm amplitude at frequency of 10 to 55Hz(for 1min.)in each of X,Y,Z directions for 2 hours					
3		IEC standard IP67, intracompany standard: oil resistant, temperature Resistance					
de		Plug connector type					
	Housing	Nickel plated brass					
plated brass Material active face PBT							
		CCC CE					
Product size chart		*1.PU insulated round wire 3.8 standard length MAX300mm					
	Menuting Shield Se distance ted object (V) st(mA) nA) A) c) erature C ge	Shield Housing Material active face	Menuting Output	Menuting Output	Menuting Output		

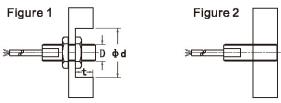


Installation conditions

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).

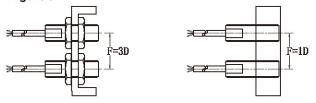
Due to the special shielding effect inside the shield, the radial magnetic field of the side is reduced, and the induction distance is about 60% of the non shield type, because it can be flush mounted in the metal (Figure 2).

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

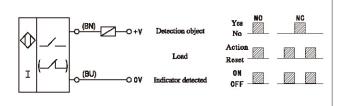


Please refer to the specific data of various types of instructions.

■ Output mode and electrical characteristics

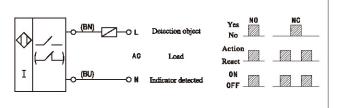
DC two-wire system NO or NC

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.

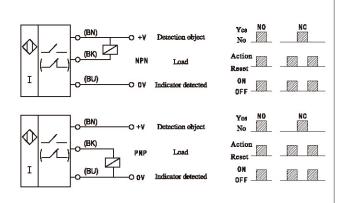


AC two-wire system NO or NC

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

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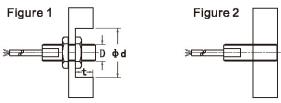
		DC-3	Wires	DC-2Wires	AC-2Wires		
Menuting	enuting Output	NPN PNP		1	1		
	NO	LN5Y-Z1NK	LN5Y-Z1PK	LN5Y-Z1DK	1		
Shield	NC	LN5Y-Z1NB	LN5Y-Z1PB	LN5Y-Z1DB	1		
Се	Shield	1mm ± 15%	1mm ± 15%	1mm ± 15%	1		
distance	Shield	0-0.7mm	0-0.7mm	0-0.7mm	1		
	Shield	2.5KHZ	2.5KHZ	2.5KHZ	1		
		Max.15% of sensing distance					
t		Magnetic metal (nonmagnetic metal detection distance will be shorter)					
ted object			Iron 5X	5X1mm			
(V)		DC12~24V r	ipple wave(p-p)Max 10%	(DC10~30V)	1		
nt(mA)		,	1	1mA Max	1		
nA)		17mA Max		1	1		
A)		100mA Max		5~100mA	1		
p)		2V Max		3V Max	1		
		Reverse polarity	protection circuit,	Pulse absorption, Overcurrent protection circuit	1		
		vallow! ED		motion:yellow LED	1		
		yellov	VLED	Stable:Green LED	′		
erature °C		Working: −25~+70℃, Keeping: −40~+85℃(NO icing NO condensation) /					
ige		AC2,000V 50/60Hz AC1,000V 50/60Hz 1min between the whole and shell AC2,000V 50/60Hz 1min between the whole and shell whole and shell					
		1.5mm amplitude at frequency of 10 to 55Hz(for 1min.)in each of X,Y,Z directions for 2 hours					
3		IEC standard IP67, intracompany standard : oil resistant, temperature Resistance					
de		Plug connector type					
	Housing	Nickel plated brass					
Titottoi piatoa bi aco		РВТ					
		CCC CE					
ct size chai	rt	8. 20 Ø5 M4X1					
	t teted object (V) nA) nA) p) perature *C age s de	Shield NC ce Shield In distance Shield Shield Shield Shield It sted object (V) Int(mA) InA) InA) InA) InA InA In I	Shield NO LN5Y-Z1NK NC LN5Y-Z1NB De Shield 1mm±15% Indistance Shield 0-0.7mm Shield 2.5KHZ It Magnetic Sted object (V) DC12-24V rott(mA) IndimA) IndimA) IndimA Indi	Shield NO LN5Y-Z1NK LN5Y-Z1PK De Shield 1mm±15% 1mm±15% Indistance Shield 0-0.7mm 0-0.7mm Shield 2.5KHZ 2.5KHZ Max.15% of set of the dobject Iron 5X (V) DC12~24V ripple wave(p-p)Max 10% IndimA) / InA) 17mA Max A) 100mA Max Dy 2V Max Surge protection circuit, Reverse polarity protection circuit, Overcurrent protection circuit, Vellow LED Derature C Working: -25~+70°C, Keeping: -40~+85°C (NO and	NO		

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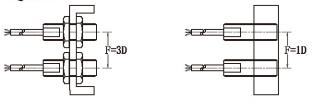
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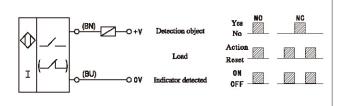


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■ Output mode and electrical characteristics

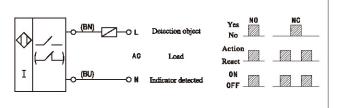
DC two-wire system NO or NC

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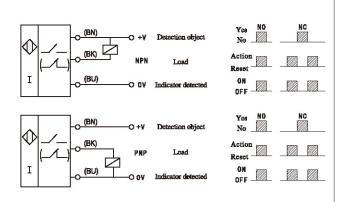


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DC three-wire system(N,P type) NO or NC







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Monuting			DC-3	Wires	DC-2Wires	AC-2Wires	
specification	Menuting	Output	NPN	PNP	1	1	
		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		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	
Rateu detectio	nuistance	Non shielded	0-1.6mm	0-1.6mm	0-1.6mm	0-1.6mm	
Erogunos / Uz	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	ct		Magnetic	metal (nonmagnetic m	etal detection distance w	ill be shorter)	
Standard dete	cted object			Iron 8	3X8X1mm		
Supply Voltage	e(V)		DC12~24V rip	pple wave(p-p)Max 109	% (DC10~30V)	AC24~240V50/60Hz	
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	yellow LED	
Operating term	norature T		Working: - 25~ + 70° C, Keeping: - 40~ +		Stable: Green LED	n NO condensation	
Operating tem	perature C		(- 2	· · · · · · · · · · · · · · · · · · ·		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.) AC2,000V 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 class	S		IEC standard IP67,intracompany standard:oil resistant,temperature Resistance				
Connection mo	ode				nnector type		
		Housing	Nickel plated brass				
Nickel plated brass		Material active face	PBT				
Authentication			CCC CE				
					11,884		

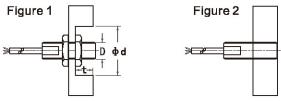


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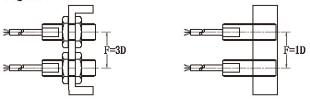
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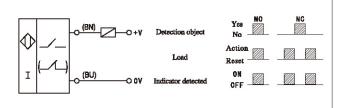


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Output mode and electrical characteristics

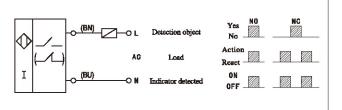
DC two-wire system NO or NC

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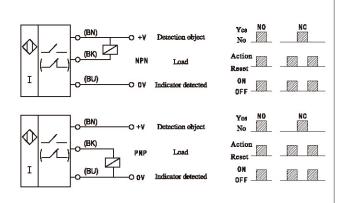


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DC three-wire system(N,P type) NO or NC





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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		Shield	2mm ± 10%	2mm ± 10%	2mm ± 10%	2mm ± 10%	
		Non shielded	4mm ± 10%	4mm ± 10%	4mm ± 10%	4mm ± 10%	
Rated detection distance Shie		Shield	0 – 1.6mm	0 – 1.6mm	0 – 1.6mm	0 – 1.6mm	
Nated detection	II ulstalite	Non shielded	0-3.2mm	0-3.2mm	0-3.2mm	0 – 3.2mm	
Frequncy (Hz	1	Shield	1.5KHZ	1.5KHZ	1KHZ	25HZ	
riequility (nz	,	Non shielded	0.4KHZ	0.4KHZ	0.8KHZ	25HZ	
Movement diffe	erential			Max.10% of	sensing distance		
Detected object	at		Magnetic	metal (nonmagnetic m	etal detection distance w	ill be shorter)	
Standard dete	cted object			Iron 1	2X12X1mm		
Supply Voltage	e (V)		DC12~24V rip	ple wave(p-p)Max 10	% (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	yellow LED	
Operating term	norature Y		Modding 25	↓ 70° C Veening —	Stable: Green LED 40~ + 85° C (NO icing	NO condensation)	
Operating tem	perature C					AC2,000V 50/60Hz 1min	
Withstand volta	age		ACQUISACION SIN TO CONTRACTOR SANDER SANDER	60Hz 1min between the	whole and shell uency of 10 to 55Hz(for 1	between the whole and she	
Vibration			1.	in each of X,Y,Z	directions for 2 hours		
Protection class	is		IEC standard IP67,intracompany standard:oil resistant,temperature Resistance				
Connection mo	ode			Plug co	nnector type		
		Housing	Nickel plated brass				
Nickel plated brass Material active		Material active face	PBT				
Authentication			CCC CE				
16.9	MI2XI	52. 5 PBT	3 DED (Yellow)		52. 5 52. 5 PBT BRAS	S LED (Yellow)	

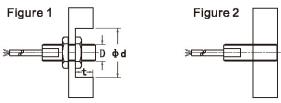


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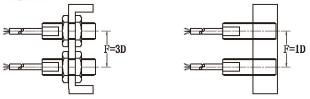
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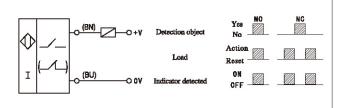


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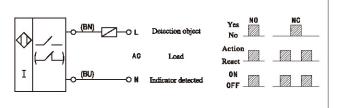
DC two-wire system NO or NC

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.

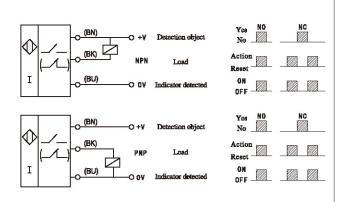


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DC three-wire system(N,P type) NO or NC







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■ Nodel S			DC-3	Wires	DC-2Wires	AC-2Wires	
specification	Menuting	Output	NPN	PNP	1	1	
	Shield	NO	LN18Y-Z5NK	LN18Y-Z5PK	LN18Y-Z5DK	LN18Y-A5AK	
		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		Shield	5mm ± 10%	5mm ± 10%	5mm ± 10%	5mm ± 10%	
		Non shielded	8mm ± 10%	8mm ± 10%	8mm ± 10%	8mm ± 10%	
Shie		Shield	0 – 4mm	0-4mm	0-4mm	0-4mm	
Rated detectio	n distance	Non shielded	0-6.4mm	0-6.4mm	0-6.4mm	0-6.4mm	
	`	Shield	0.6KHZ	0.6KHZ	0.5KHZ	25HZ	
Frequncy (Hz)	Non shielded	0.2KHZ	0.2KHZ	0.4KHZ	25HZ	
Movement diffe	erential			Max.10% of	sensing distance		
Detected object	ct .		Magnetic	metal (nonmagnetic m	etal detection distance w	rill be shorter)	
Standard dete	cted object			Iron 1	8X18X1mm		
Supply Voltage	∍(V)		DC12~24V rip	ple wave(p-p)Max 109	% (DC10~30V)	AC24~240V50/60Hz	
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	yellow LED	
			▼ 0.00000000000000000000000000000000000		Stable: Green LED 40~ + 85° C (NO icing NO condensation		
Operating tem	peratureC		Working: - 25~	+ /0° C, Keeping: -	40~ + 85° C (NO icing		
Withstand volta	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				
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	ode			Plug co	onnector type		
		Housing		Nickel	plated brass		
Nickel plated brass		Material active face					
Authentication				CC	CC CE		
23.8	M 8 × 1	70 45 PBT		23.8	7 50 50 S S S S S S S S S S S S S S S S S	G. 8.	

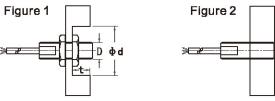


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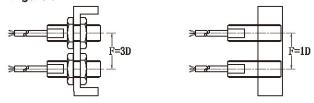
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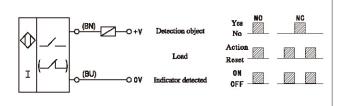


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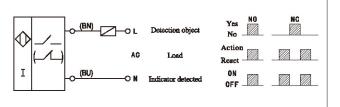
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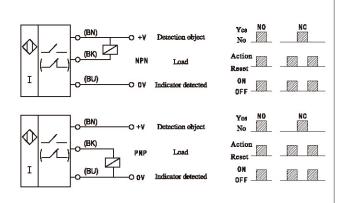


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Before use, please read the product specification "



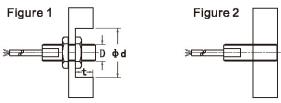
	Manustina		DC-3	Wires	DC-2Wires	AC-2Wires
specification	Menuting	Output	NPN	PNP	1	1
		NO	LN30Y-Z10NK	LN30Y-Z10PK	LN30Y-Z10DK	LN30Y-A10AK
	Shield	NC	LN30Y-Z10NB	LN30Y-Z10PB	LN30Y-Z10DB	LN30Y-A10AB
	Non	NO	LN30Y-Z15NK	LN30Y-Z15PK	LN30Y-Z15DK	LN30Y-A15AK
	shielded	NC	LN30Y-Z15NB	LN30Y-Z15PB	LN30Y-Z15DB	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	n distance	Non shielded	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			Magnetic		etal detection distance w	vill be shorter)
Standard deter					X30X1mm	
Supply Voltage			DC12~24V ric	pple wave(p-p)Max 10%		AC24~240V50/60Hz
Leakage curre				<u> </u>	0.8mA Max	1.7mA Max
Consumption (mA)			13mA Max		1	1
Load current(n			200mA Max		5~200mA	5~200mA
Voltage drop (Vp)			2V Max		3V Max	3V Max
· onango anop (• • •		surge protection circuit,			
Protection circ	uit		reverse polarity	ction circuit, protection circuit, rotection circuit	pulse absorption overcurrent protection circuit	surge protection circuit
LED Display	I ED Dieplay		yellow LED		Motion: Yellow LED	yellow LED
			-		Stable: Green LED	
Operating tem	perature*C		Working: - 25~	+ 70° C, Keeping: -	40~ + 85° C (NO icing	
Withstand volta	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 frequency of 10 to 55Hz(for 1min.) in each of X,Y,Z directions for 2 hours			
Protection class	S		IEC standard I	P67,intracompany stan	dard:oil resistant,tempe	rature Resistance
Connection mo	ode		Plug connector type			
		Housing	Nickel plated brass			
Nickel plated b	rass	Material active face				
Authentication				CC	C CE	
35.	8 12 PAUL	S PBI	\$2 55 Q	35.4	E PBT	75 0 G. S. EBRASS. LED (Yellow)

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).

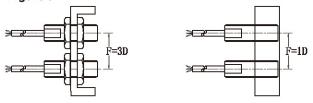
Due to the special shielding effect inside the shield, the radial magnetic field of the side is reduced, and the induction distance is about 60% of the non shield type, because it can be flush mounted in the metal (Figure 2).

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

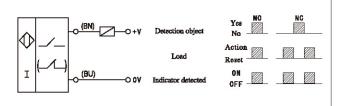


Please refer to the specific data of various types of instructions.

■ Output mode and electrical characteristics

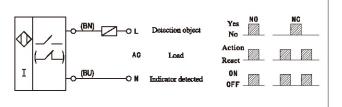
DC two-wire system NO or NC

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

