

Product features

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

With waterproof, anti oil, temperature and other advantages

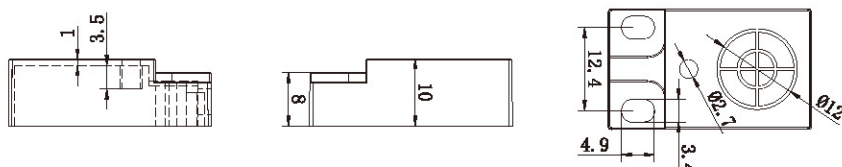
Yellow LED display can detect sensor work status

IP67 protection structure (IEC specification)

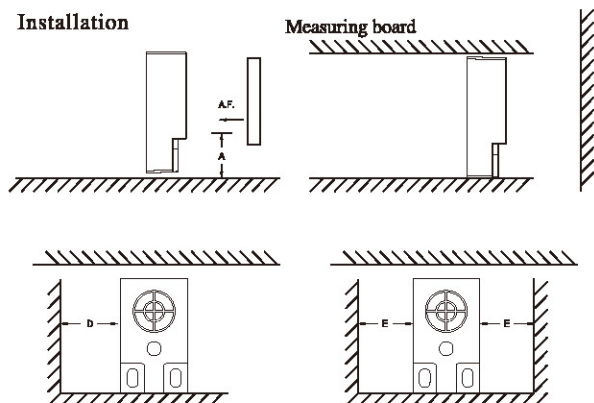
Before use, please read the product specification "



Model specification

Specification	Connection mode	Output	DC-3Wires		DC-2Wires	AC-2Wires	
			NPN	PNP	/	/	
	2M lead wire type	NO	LN18F1-Z5NK	LN18F1-Z5PK	LN18F1-Z5DK	/	
		NC	LN18F1-Z5NB	LN18F1-Z5PB	LN18F1-Z5DB	/	
	Pluggable type	NO	/	/	/	/	
		NC	/	/	/	/	
semi-pluggable (30cm)	NO	LN18F1-Z5NK/ML	LN18F1-Z5PK/ML	LN18F1-Z5DK/ML	/		
	NC	LN18F1-Z5NB/ML	LN18F1-Z5PB/ML	LN18F1-Z5DB/ML	/		
Sensing distance (mm)			5mm ± 10%	5mm ± 10%	5mm ± 10%	/	
Rated detection distance			0 - 4mm	0 - 4mm	0 - 4mm	/	
Frequency (Hz)			0.5KHZ	0.5KHZ	0.5KHZ	/	
Movement differential			Max.10% of sensing distance				
Detected object			Magnetic metal (nonmagnetic metal detection distance shorter)				
Standard detected object			Iron 18X18X1mm				
Supply Voltage (V)			DC12 ~ 24V ripple wave (p-p) Max 10% (DC10 ~ 30V)				/
Leakage current (mA)			/		0.8mA Max	/	
Consumption (mA)			8mA Max		/	/	
Load Current (mA)			200mA Max		5 ~ 200mA	/	
Voltage drop (Vp)			1.7V Max		3.3V Max	/	
Protection circuit			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° C, Keeping: - 40 ~ + 85° C (surge protection circuit)				
Withstand voltage			AC1,000V 50/60Hz 1minbetween the whole and shell				/
Vibration			1mm 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				
Nickel plated brass	Housing	Nickel plated brass					
	Material active face	PBT					
Authentication			CCC CE				
Product size chart							

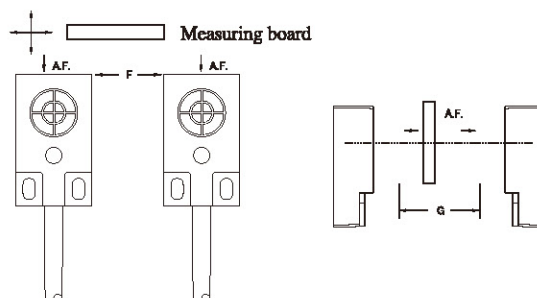
Installation conditions



For detailed data, refer to the operation instruction of various types

Influence of parallel installation

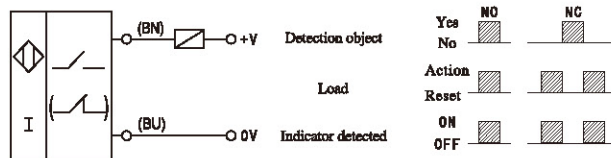
To avoid mutual interference, the minimum distance between them must be kept.



Output mode and electrical characteristics

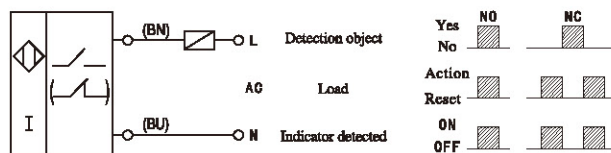
DC two-wire system NO or NC

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.



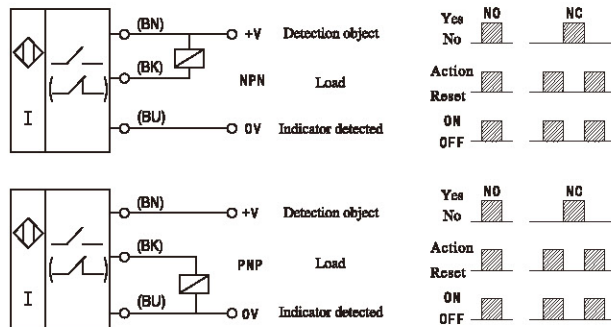
AC two-wire system NO or NC

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

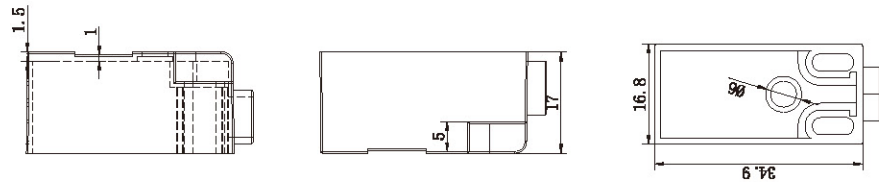
Yellow LED display can detect sensor work status

IP67 protection structure (IEC specification)

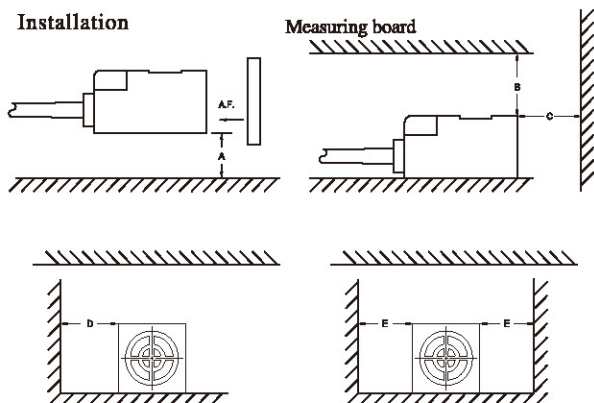
Before use, please read the product specification "



Model specification

Specification	Connection mode	Output	DC-3Wires		DC-2Wires	AC-2Wires
			NPN	PNP	/	/
	2M lead wire type	NO	LN17F-Z5NK	LN17F-Z5PK	LN17F-Z5DK	LN17F-A5AK
		NC	LN17F-Z5NB	LN17F-Z5PB	LN17F-Z5DB	LN17F-A5AB
	Pluggable type	NO	LN17F-Z5NK/L	LN17F-Z5PK/L	LN17F-Z5DK/L	LN17F-A5AK/L
		NC	LN17F-Z5NB/L	LN17F-Z5PB/L	LN17F-Z5DB/L	LN17F-A5AB/L
semi-pluggable (30cm)	NO	LN17F-Z5NK/ML	LN17F-Z5PK/ML	LN17F-Z5DK/ML	LN17F-A5AK/ML	
	NC	LN17F-Z5NB/ML	LN17F-Z5PB/ML	LN17F-Z5DB/ML	LN17F-A5AB/ML	
Sensing distance (mm)			5mm ± 10%	5mm ± 10%	5mm ± 10%	5mm ± 10%
Rated detection distance			0 - 4mm	0 - 4mm	0 - 4mm	0 - 4mm
Frequency (Hz)			0.5KHZ	0.5KHZ	0.5KHZ	25HZ
Movement differential			Max.10% of sensing distance			
Detected object			Magnetic metal (nonmagnetic metal detection distance 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	2mA Max
Consumption (mA)			8mA Max		/	/
Load Current (mA)			200mA Max		5 ~ 200mA	10 ~ 200mA
Voltage drop (Vp)			1.7V Max		3.3V Max	3.3V 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 (surge protection circuit)			
Withstand voltage			AC1,000V 50/60Hz 1minbetween the whole and shell			AC2,000V 50/60Hz 1min between the whole and shell
Vibration			1mm 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			
Nickel plated brass	Housing	Nickel plated brass				
	Material active face	PBT				
Authentication			CCC CE			
Product size chart						

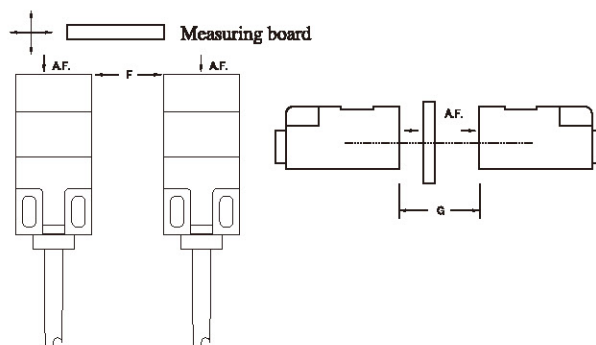
Installation conditions



For detailed data, refer to the operation instruction of various types

Influence of parallel installation

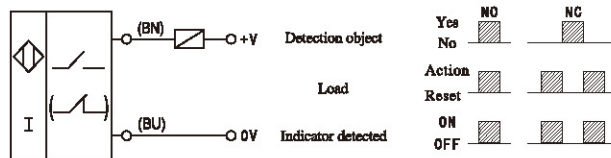
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Output mode and electrical characteristics

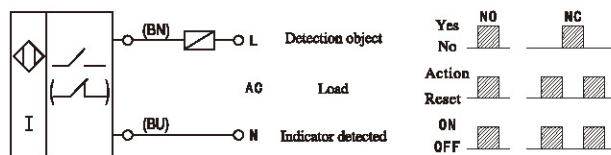
DC two-wire system NO or NC

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.



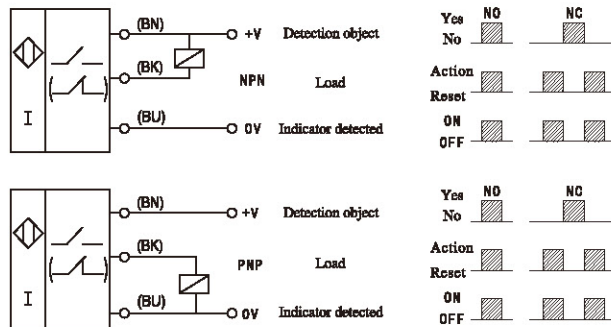
AC two-wire system NO or NC

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

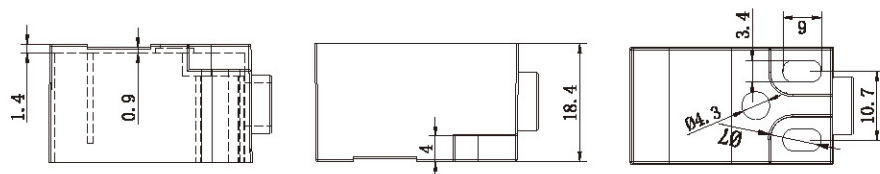
Yellow LED display can detect sensor work status

IP67 protection structure (IEC specification)

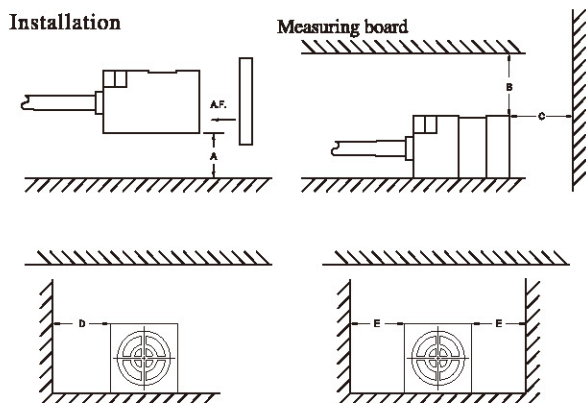
Before use, please read the product specification "



Model specification

Specification	Connection mode	Output	DC-3Wires		DC-2Wires	AC-2Wires
			NPN	PNP	/	/
	2M lead wire type	NO	LN18F-Z5NK	LN18F-Z5PK	LN18F-Z5DK	LN18F-A5AK
		NC	LN18F-Z5NB	LN18F-Z5PB	LN18F-Z5DB	LN18F-A5AB
	Pluggable type	NO	LN18F-Z5NK/L	LN18F-Z5PK/L	LN18F-Z5DK/L	LN18F-A5AK/L
		NC	LN18F-Z5NB/L	LN18F-Z5PB/L	LN18F-Z5DB/L	LN18F-A5AB/L
semi-pluggable (30cm)	NO	LN18F-Z5NK/ML	LN18F-Z5PK/ML	LN18F-Z5DK/ML	LN18F-A5AK/ML	
	NC	LN18F-Z5NB/ML	LN18F-Z5PB/ML	LN18F-Z5DB/ML	LN18F-A5AB/ML	
Sensing distance (mm)			5mm ± 10%	5mm ± 10%	5mm ± 10%	5mm ± 10%
Rated detection distance			0 - 4mm	0 - 4mm	0 - 4mm	0 - 4mm
Frequency (Hz)			0.5KHZ	0.5KHZ	0.5KHZ	25HZ
Movement differential			Max.10% of sensing distance			
Detected object			Magnetic metal (nonmagnetic metal detection distance 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	2mA Max
Consumption (mA)			8mA Max		/	/
Load Current (mA)			200mA Max		5 ~ 200mA	10 ~ 200mA
Voltage drop (Vp)			1.7V Max		3.3V Max	3.3V 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 (surge protection circuit)			
Withstand voltage			AC1,000V 50/60Hz 1minbetween the whole and shell			AC2,000V 50/60Hz 1min between the whole and shell
Vibration			1mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X,Y,Z directions for 2 hours			
Protection class			IEC standard IP67, intracompany standard: oil resistant, temperature Resistance			
Nickel plated brass		Housing	Nickel plated brass			
		Material active face	PBT			
Authentication			CCC CE			
Product size chart						

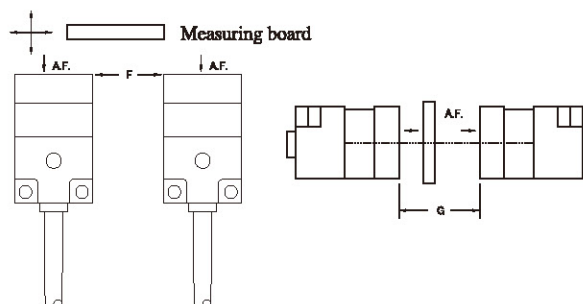
■ Installation conditions



For detailed data, refer to the operation instruction of various types

Influence of parallel installation

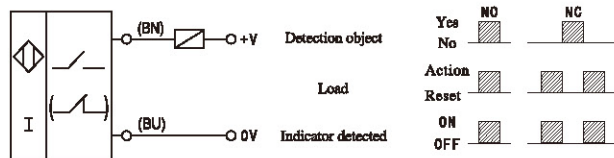
To avoid mutual interference, the minimum distance between them must be kept.



■ Output mode and electrical characteristics

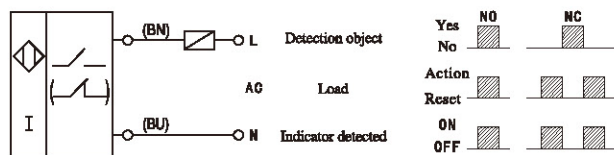
DC two-wire system NO or NC

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.



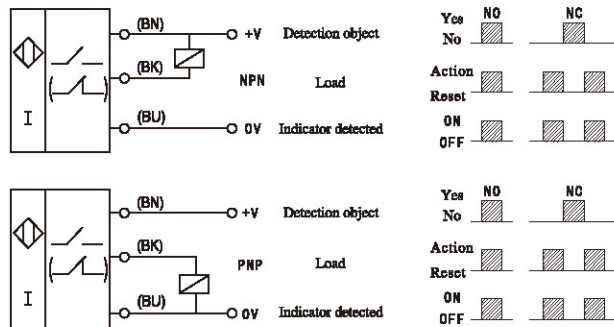
AC two-wire system NO or NC

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

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With waterproof, anti oil, temperature and other advantages

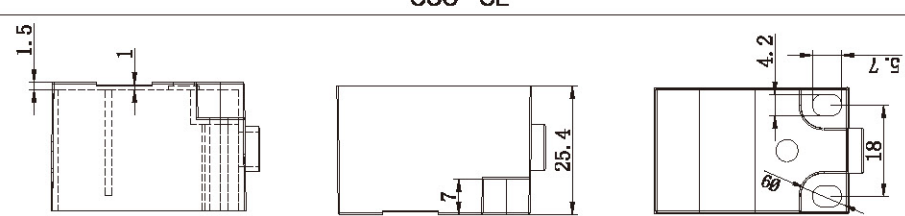
Yellow LED display can detect sensor work status

IP67 protection structure (IEC specification)

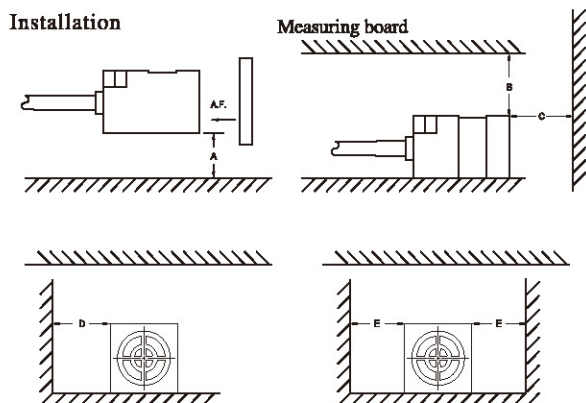
Before use, please read the product specification "



Model specification

Specification	Connection mode	Output	DC-3Wires		DC-2Wires	AC-2Wires
			NPN	PNP	/	/
	2M lead wire type	NO	LN25F-Z7NK	LN25F-Z7PK	LN25F-Z7DK	LN25F-A7AK
		NC	LN25F-Z7NB	LN25F-Z7PB	LN25F-Z7DB	LN25F-A7AB
	Pluggable type	NO	LN25F-Z7NK/L	LN25F-Z7PK/L	LN25F-Z7DK/L	LN25F-A7AK/L
		NC	LN25F-Z7NB/L	LN25F-Z7PB/L	LN25F-Z7DB/L	LN25F-A7AB/L
semi-pluggable (30cm)	NO	LN25F-Z7NK/ML	LN25F-Z7PK/ML	LN25F-Z7DK/ML	LN25F-A7AK/ML	
	NC	LN25F-Z7NB/ML	LN25F-Z7PB/ML	LN25F-Z7DB/ML	LN25F-A7AB/ML	
Sensing distance (mm)			7mm ± 10%	7mm ± 10%	7mm ± 10%	7mm ± 10%
Rated detection distance			0 - 5.6mm	0 - 5.6mm	0 - 5.6mm	0 - 5.6mm
Frequency (Hz)			0.5KHZ	0.5KHZ	0.5KHZ	25HZ
Movement differential			Max.10% of sensing distance			
Detected object			Magnetic metal (nonmagnetic metal detection distance will be shorter)			
Standard detected object			Iron 25X25X1mm			
Supply Voltage (V)			DC12 ~ 24V ripple wave (p-p) Max 10% (DC10 ~ 30V)			AC24 ~ 240V 50/60Hz
Leakage current (mA)			/		0.8mA Max	2mA max
Consumption (mA)			8mA Max		/	/
Load Current (mA)			200mA Max		5 ~ 200mA	10 ~ 200mA
Voltage drop (Vp)			1.7V Max		3.3V Max	3.3V 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 (surge protection circuit)			
Withstand voltage			AC1,000V 50/60Hz 1minbetween the whole and shell			AC2,000V 50/60Hz 1min between the whole and shell
Vibration			1mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X,Y,Z directions for 2 hours			
Protection class			IEC standard IP67, intracompany standard: oil resistant, temperature Resistance			
Nickel plated brass	Housing	Nickel plated brass				
	Material active face	PBT				
Authentication			CCC CE			
Product size chart						

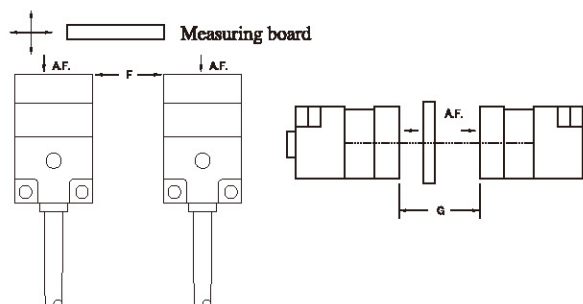
■ Installation conditions



For detailed data, refer to the operation instruction of various types

Influence of parallel installation

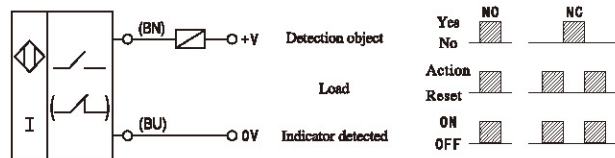
To avoid mutual interference, the minimum distance between them must be kept.



■ Output mode and electrical characteristics

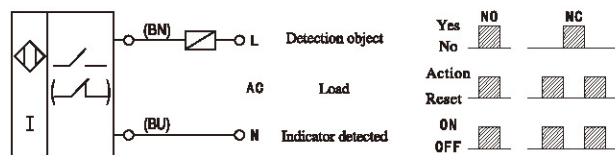
DC two-wire system NO or NC

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.



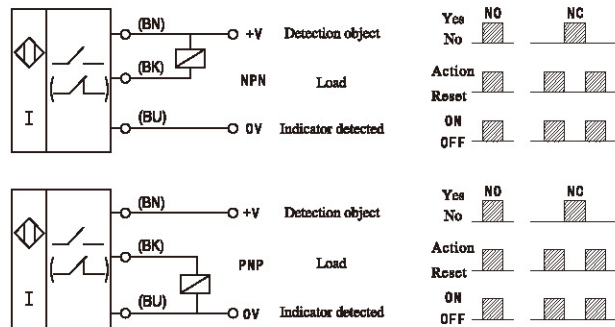
AC two-wire system NO or NC

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.



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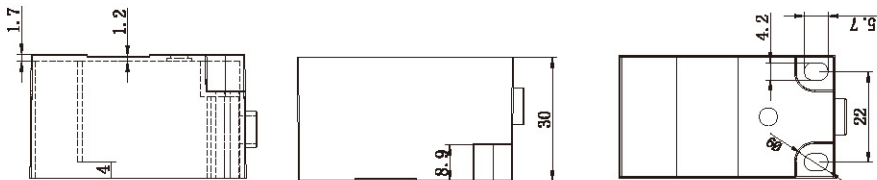
Yellow LED display can detect sensor work status

IP67 protection structure (IEC specification)

Before use, please read the product specification "

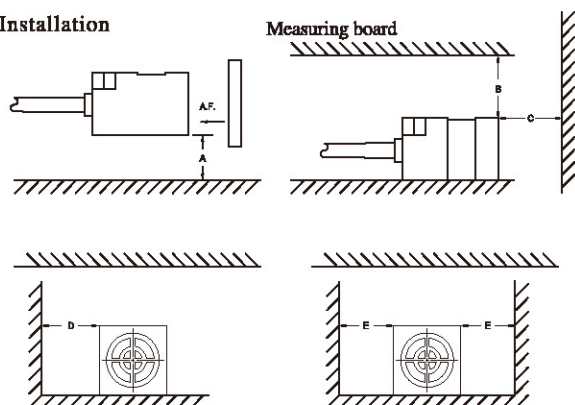


Model specification

Specification	Connection mode	Output	DC-3Wires		DC-2Wires	AC-2Wires
			NPN	PNP	/	/
	2M lead wire type	NO	LN30F-Z10NK	LN30F-Z10PK	LN30F-Z10DK	LN30F-A10AK
		NC	LN30F-Z10NB	LN30F-Z10PB	LN30F-Z10DB	LN30F-A10AB
	Pluggable type	NO	LN30F-Z10NK/L	LN30F-Z10PK/L	LN30F-Z10DK/L	LN30F-A10AK/L
		NC	LN30F-Z10NB/L	LN30F-Z10PB/L	LN30F-Z10DB/L	LN30F-A10AB/L
semi-pluggable (30cm)	NO	LN30F-Z10NK/ML	LN30F-Z10PK/ML	LN30F-Z10DK/ML	LN30F-A10AK/ML	
	NC	LN30F-Z10NB/ML	LN30F-Z10PB/ML	LN30F-Z10DB/ML	LN30F-A10AB/ML	
Sensing distance (mm)			10mm ± 10%	10mm ± 10%	10mm ± 10%	10mm ± 10%
Rated detection distance			0 - 8mm	0 - 8mm	0 - 8mm	0 - 8mm
Frequency (Hz)			0.5KHZ	0.5KHZ	0.5KHZ	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	2mA max
Consumption (mA)			8mA Max		/	/
Load Current (mA)			200mA Max		5 ~ 200mA	10 ~ 200mA
Voltage drop (Vp)			1.7V Max		3.3V Max	3.3V 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 (surge protection circuit)			
Withstand voltage			AC1,000V 50/60Hz 1minbetween the whole and shell			AC2,000V 50/60Hz 1min between the whole and shell
Vibration			1mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X,Y,Z directions for 2 hours			
Protection class			IEC standard IP67, intracompany standard: oil resistant, temperature Resistance			
Nickel plated brass	Housing	Nickel plated brass				
	Material active face	PBT				
Authentication			CCC CE			
Product size chart						

■ Installation conditions

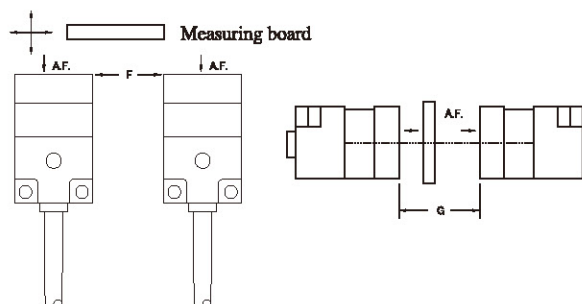
Installation



For detailed data, refer to the operation instruction of various types

Influence of parallel installation

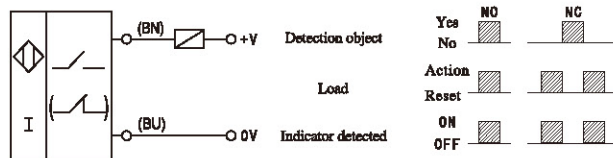
To avoid mutual interference, the minimum distance between them must be kept.



■ Output mode and electrical characteristics

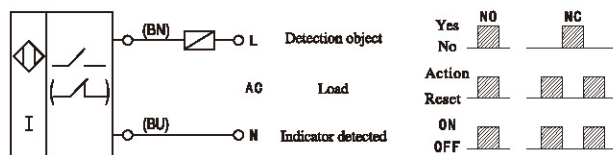
DC two-wire system NO or NC

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.



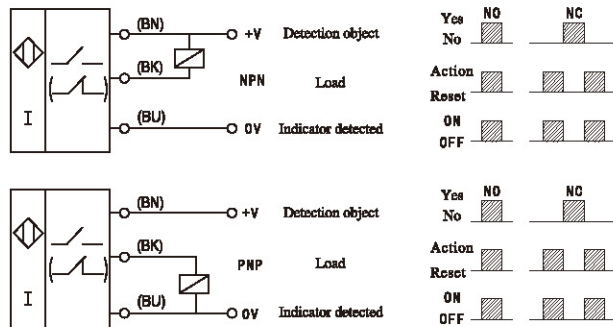
AC two-wire system NO or NC

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

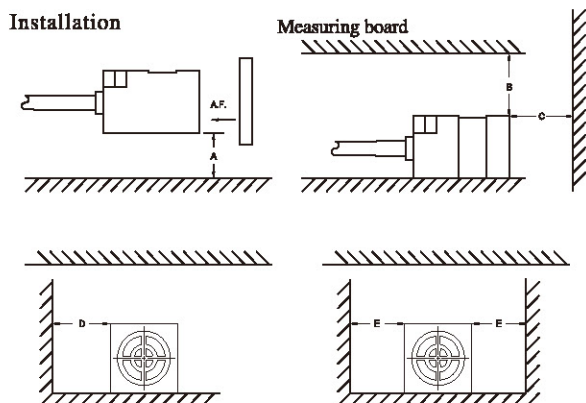


DC three-wire system(N,P type) NO or NC

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.



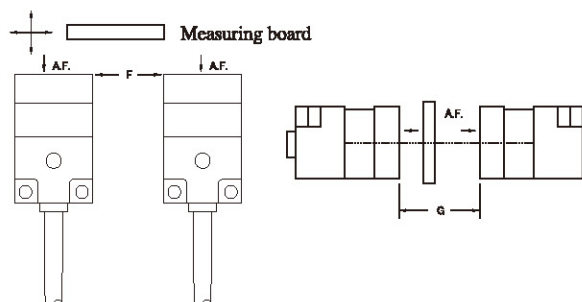
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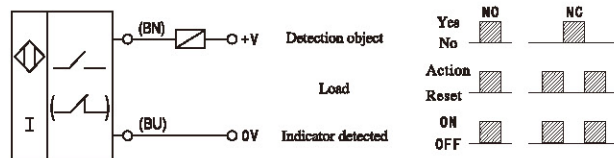
To avoid mutual interference, the minimum distance between them must be kept.



Output mode and electrical characteristics

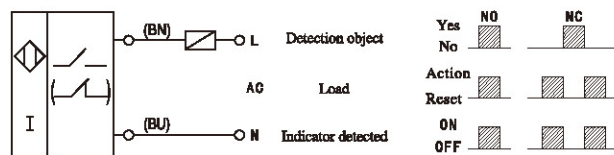
DC two-wire system NO or NC

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.

