



PROXIMITY SENSORS and PHOTOELECTRIC SENSORS

AE3F Photoelectric Proximity Sensor Switch

The latest high frequency, strong anti-interference photoelectric switch series

- Power supply reversal connection protection; short-circuit protection, can directly connect with PLC
- Used in common places with medium environment resistance
- Red LED indicates that it's available to detect the sensor operating state
- IP67 protection structure(IEC specification)
- Read the "Matters needing attention" of the product instruction before use

Chart 1

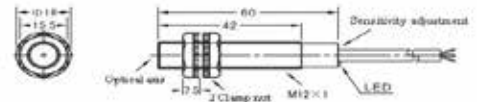


Chart 2

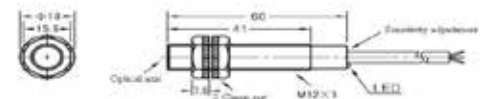
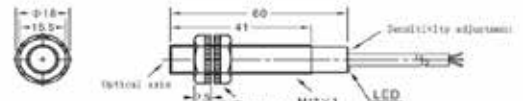


Chart 3 AE3F1-3D□



Type and Specification

Dimension				M12*1			
Detection method				Diffuse type		Feedback reflex type	Though beam type
Type	DC type	NPN	NO	AE3F1-DS5N1	AE3F1-DS8N1	AE3F1-R1N1	AE3F1-3DN1-3L
			NC	AE3F1-DS5N2	AE3F1-DS8N2	AE3F1-R1N2	AE3F1-3DN1-3L
			NO+NC				
	PNP	NO	AE3F1-DS5P1	AE3F1-DS8P1	AE3F1-R1P1	AE3F1-3DP1-3L	
		NC	AE3F1-DS5P2	AE3F1-DS8P2	AE3F1-R1P2	AE3F1-3DP2-3L	
		NO+NC					
	AC type	Two-wire	NO				
			NC				
Detection range				5cm±10%	8cm±10%	1cm±10%	3cm±10%
Detection target				Transparent/ Opaque object	Transparent/ Opaque object	Opaque object	Opaque object
Detection range regulation				Fixed	Fixed	Sensitivity adjuster	Fixed
Response time				1ms	1ms	1ms	1ms
Illustration				Chart 1		Chart 2	Chart 3

Characteristic Parameters

Connection delay	1.5ms
Light Source	Infrared light 660nm
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below ; Ac type: AC110-220V (90-250V) 50/60Hz
Consumption current	N.P type:20mA below; A type:1.7mA below
Control output	N.P type:300mA below; A type: 400mA below ; J type:2A below(contact service life: 0.1 million times)
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection; A type: surge absorption
Ambient temperature & humidity	During operation,storage: individually-30 ~ +65℃(no freeze,no drew), During operation,storage: Individually35~95%RH
Insulation impedance	50 MΩ above (DC500 Meg-ohmmeter) between charging part and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging part and housing
Temperature influence	Temperature range -30 ~ +65℃,at +23℃,±15% detection distance ; temperature range-25 ~ +60℃,at+23℃,±10% detection distance
Voltage influence	Inside ±15% rated supply voltage range, at rated supply voltage value; inside ±10% detection distance
Protection structure	IP67 (IEC specification)
Material	Housing: Nickel plated brass (ABS) ; Detection surface (lens) : PMMA

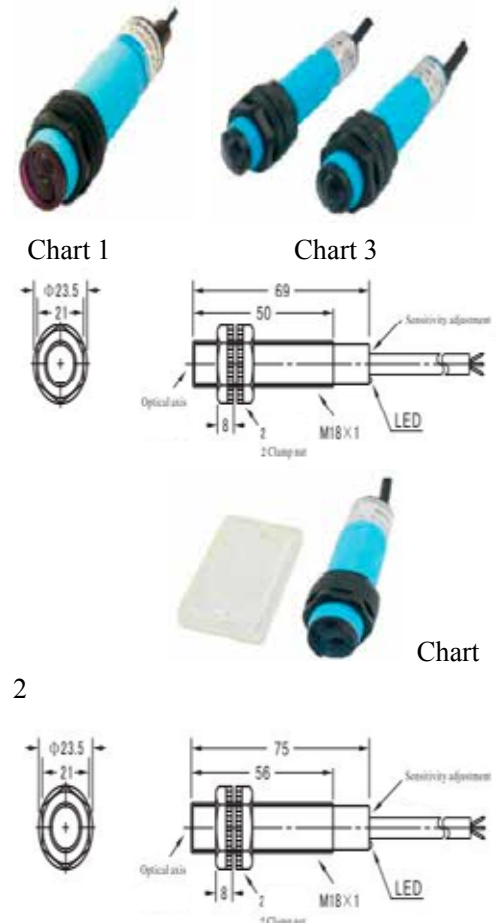
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Type and Specification

Dimension				M18*1			
Detection method				Diffuse type		Feedback reflex type	Though beam type
Type	DC type	NPN	NO	AE3F-DS10N1	AE3F-DS30N1	AE3F-R2N1	AE3F-5DN1-5L
			NC	AE3F-DS10N2	AE3F-DS30N2	AE3F-R2N2	AE3F-5DN2-5L
			NO+NC	AE3F-DS10N3	AE3F-DS30N3	AE3F-R2N3	AE3F-5DN3-5L
		PNP	NO	AE3F-DS10P1	AE3F-DS30P1	AE3F-R2P1	AE3F-5DP1-5L
			NC	AE3F-DS10P2	AE3F-DS30P2	AE3F-R2P2	AE3F-5DP2-5L
			NO+NC	AE3F-DS10P3	AE3F-DS30P3	AE3F-R2P3	AE3F-5DP3-5L
	AC type	Two-wire	NO	AE3F-DS10A1	AE3F-DS30A1	AE3F-R2A1	AE3F-5DA1-5A
			NC	AE3F-DS10A2	AE3F-DS30A2	AE3F-R2A2	AE3F-5DA2-5A
Detection range				10cm±10%	10-30cm±10%	2m±10%	5m±10%
Detection target				Transparent/ Opaque object	Transparent/ Opaque object	Opaque object	Opaque object
Detection range regulation				Fixed	Sensitivity adjuster	Sensitivity adjuster	Fixed
Response time				DC: 1ms AC: 30ms	DC: 1ms AC: 30ms	DC: 1ms AC: 30ms	DC: 1ms AC: 30ms
Illustration				Chart 1		Chart 2	Chart 3



Characteristic Parameters

Connection delay	1.5ms
Light Source	Infrared light 660nm
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below ; Ac type: AC110-220V (90-250V) 50/60Hz
Consumption current	N.P type:20mA below; A type:1.7mA below
Control output	N.P type:300mA below; A type: 400mA below ; J type:2A below(contact service life: 0.1 million times)
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection; A type: surge absorption
Ambient temperature & humidity	During operation,storage: individually-30 ~ +65℃(no freeze,no drew), During operation,storage: Individually35~95%RH
Insulation impedance	50 MΩ above (DC500 Meg-ohmmeter) between charging part and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging part and housing
Temperature influence	Temperature range -30 ~ +65℃,at +23℃,±15% detection distance ; temperature range-25 ~ +60℃,at+23℃,±10% detection distance
Voltage influence	Inside ±15% rated supply voltage range, at rated supply voltage value; inside ±10% detection distance
Protection structure	IP67 (IEC specification)
Material	Housing: Nickel plated brass (ABS) ; Detection surface (lens) : PMMA

AE3F Photoelectric Proximity Sensor Switch

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- Used in common places with medium environment resistance
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- IP67 protection structure(IEC specification)
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Type and Specification

Dimension				M30*1.5			
Detection method				Diffuse type		Feedback reflex type	Though beam type type
Type	DC type	NPN	NO	AE3F3-DS50N1	AE3F3-DS70N1	AE3F3-R4N1	AE3F3-10DN1-10L
			NC	AE3F3-DS50N2	AE3F3-DS70N2	AE3F3-R4N2	AE3F3-10DN2-10L
			NO+NC	AE3F3-DS50N3	AE3F3-DS70N3	AE3F3-R4N3	AE3F3-10DN3-10L
		PNP	NO	AE3F3-DS50P1	AE3F3-DS70P1	AE3F3-R4P1	AE3F3-10DP1-10L
			NC	AE3F3-DS50P2	AE3F3-DS70P2	AE3F3-R4P2	AE3F3-10DP2-10L
			NO+NC	AE3F3-DS50P3	AE3F3-DS70P3	AE3F3-R4P3	AE3F3-10DP3-10L
	AC type	Two- wire	NO	AE3F3-DS50A1	AE3F3-DS70A1	AE3F3-R4A1	AE3F3-10DA1-10A
			NC	AE3F3-DS50A2	AE3F3-DS70A2	AE3F3-R4A2	AE3F3-10DA2-10A
Detection range				10~50cm	10~70cm	4m±10%	10m±10%
Detection target				Transparent/ Opaque object	Transparent/ Opaque object	Opaque object	Opaque object
Detection range regulation				Sensitivity adjuster	Sensitivity adjuster	Sensitivity adjuster	Fixed
Response time				DC: 1ms AC: 30ms	DC: 1ms AC: 30ms	DC: 1ms AC: 30ms	DC: 1ms AC: 30ms
Illustration				Chart 1		Chart 2	Chart 3



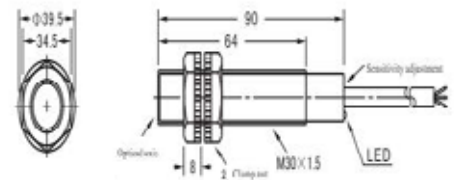
Chart 1



Chart 2



Chart 3



Characteristic Parameters

Connection delay	1.5ms
Light Source	Infrared light 660nm
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below ; Ac type: AC110-220V (90-250V) 50/60Hz
Consumption current	N.P type:20mA below; A type:1.7mA below
Control output	N.P type:300mA below; A type: 400mA below ; J type:2A below(contact service life: 0.1 million times)
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection; A type: surge absorption
Ambient temperature & humidity	During operation,storage: individually-30 ~ +65℃(no freeze,no drew), During operation,storage: Individually35~95%RH
Insulation impedance	50 MΩ above (DC500 Meg-ohmmeter) between charging part and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging part and housing
Temperature influence	Temperature range -30 ~ +65℃,at +23℃, ± 15% detection distance ; temperature range-25 ~ +60℃,at+23℃, ± 10% detection distance
Voltage influence	Inside ± 15% rated supply voltage range, at rated supply voltage value; inside ± 10% detection distance
Protection structure	IP67 (IEC specification)
Material	Housing: Nickel plated brass (ABS) ; Detection surface (lens) : PMMA

AE3F1 Photoelectric Proximity Sensor Switch

The latest plug type, high frequency, strong anti-interference photoelectric switch series

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- IP67 protection structure(IEC specification)
- Read the "Matters needing attention" of the product instruction before use

Type and Specification

Dimension				M12*1			
Detection method				Diffuse type		Feedback reflex type	Though beam type
Type	DC type	NPN	NO	AE3F1-DS5N1	AE3F1-DS8N1-T	AE3F1-2DN1-T	AE3F1-3DN1-3L-T
			NC	AE3F1-DS5N2	AE3F1-DS8N2-T	AE3F1-2DN2-T	AE3F1-3DN1-3L-T
			NO+NC				
		PNP	NO	AE3F1-DS5P1	AE3F1-DS8P1-T	AE3F1-2DP1-T	AE3F1-3DP1-3L-T
			NC	AE3F1-DS5P2	AE3F1-DS8P2-T	AE3F1-2DP2-T	AE3F1-3DP2-3L-T
			NO+NC				
	AC type	Two-wire	NO				
			NC				
Detection range				5cm±10%	8cm±10%	1cm±10%	3cm±10%
Detection target				Transparent/Opaque object	Transparent/Opaque object	Opaque object	Opaque object
Detection range regulation				Fixed	Fixed	Sensitivity adjuster	Fixed
Response time				1ms	1ms	1ms	1ms
Illustration				Chart 10		Chart 11	Chart 12



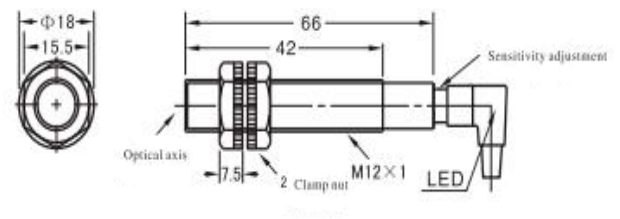
Chart 1



Chart 2



Chart 3



Characteristic Parameters

Connection delay	1.5ms
Light Source	Infrared light 660nm
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below ; Ac type: AC110-220V (90-250V) 50/60Hz
Consumption current	N.P type:20mA below; A type:1.7mA below
Control output	N.P type:300mA below; A type: 400mA below ; J type:2A below(contact service life: 0.1 million times)
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection; A type: surge absorption
Ambient temperature & humidity	During operation,storage: individually-30 ~ +65℃(no freeze,no drew), During operation,storage: Individually35~95%RH
Insulation impedance	50 MΩ above (DC500 Meg-ohmmeter) between charging part and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging part and housing
Temperature influence	Temperature range -30 ~ +65℃,at +23℃,±15% detection distance ; temperature range-25 ~ +60℃,at+23℃,±10% detection distance
Voltage influence	Inside ±15% rated supply voltage range, at rated supply voltage value; inside ±10% detection distance
Protection structure	IP67 (IEC specification)
Material	Housing: Nickel plated brass (ABS) ; Detection surface (lens) : PMMA

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Type and Specification

Dimension				M18*1			
Detection method				Diffuse type		Feedback reflex type	Though beam type
Type	DC type	NPN	NO	AE3F-DS10N1-T	AE3F-DS30N1-T	AE3F-R2N1-T	AE3F-5DN1-5L-T
			NC	AE3F-DS10N2-T	AE3F-DS30N2-T	AE3F-R2N2-T	AE3F-5DN2-5L-T
			NO+NC	AE3F-DS10N3-T	AE3F-DS30N3-T	AE3F-R2N3-T	AE3F-5DN3-5L-T
		PNP	NO	AE3F-DS10P1-T	AE3F-DS30P1-T	AE3F-R2P1-T	AE3F-5DP1-5L-T
			NC	AE3F-DS10P2-T	AE3F-DS30P2-T	AE3F-R2P2-T	AE3F-5DP2-5L-T
			NO+NC	AE3F-DS10P3-T	AE3F-DS30P3-T	AE3F-R2P3-T	AE3F-5DP3-5L-T
	AC type	Two- wire	NO	AE3F-DS10A1-T	AE3F-DS30A1-T	AE3F-R2A1-T	AE3F-5DA1-5A-T
			NC	AE3F-DS10A2-T	AE3F-DS30A2-T	AE3F-R2A2-T	AE3F-5DA2-5A-T
Detection range				10cm±10%	10-30cm±10%	2m±10%	5m±10%
Detection target				Transparent/ Opaque object	Transparent/ Opaque object	Opaque object	Opaque object
Detection range regulation				Fixed	Sensitivity adjuster	Sensitivity adjuster	Fixed
Response time				DC: 1ms AC: 30ms	DC: 1ms AC: 30ms	DC: 1ms AC: 30ms	DC: 1ms AC: 30ms
Illustration							



Chart 1

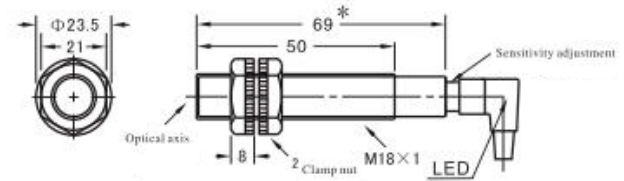
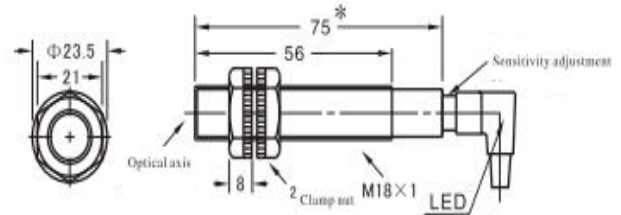


Chart 3



Chart 2



Characteristic Parameters

Connection delay	1.5ms
Light Source	Infrared light 660nm
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below ; Ac type: AC110-220V (90-250V) 50/60Hz
Consumption current	N.P type:20mA below ; A type:1.7mA below
Control output	N.P type:300mA below ; A type: 400mA below ; J type:2A below(contact service life: 0.1 million times)
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection; A type: surge absorption
Ambient temperature & humidity	During operation,storage: individually-30 ~ +65℃(no freeze,no drew), During operation,storage: Individually35~95%RH
Insulation impedance	50 MΩ above (DC500 Meg-ohmmeter) between charging part and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging part and housing
Temperature influence	Temperature range -30 ~ +65℃,at +23℃,±15% detection distance ; temperature range-25 ~ +60℃,at+23℃,±10% detection distance
Voltage influence	Inside ±15% rated supply voltage range, at rated supply voltage value; inside ±10% detection distance
Protection structure	IP67 (IEC specification)
Material	Housing: Nickel plated brass (ABS) ; Detection surface (lens) : PMMA

AE3F3 Photoelectric Proximity Sensor Switch

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- Used in common places with medium environment resistance
- Red LED indicates that it's available to detect the sensor operating state
- IP67 protection structure(IEC specification)
- Read the "Matters needing attention" of the product instruction before use

Type and Specification

Dimension				M30*1.5			
Detection method				Diffuse type		Feedback reflex type	Though beam type
Type	DC type	NPN	NO	AE3F3-DS50N1-T	AE3F3-DS70N1-T	AE3F3-R4N1-T	AE3F3-10DN1-10L-T
			NC	AE3F3-DS50N2-T	AE3F3-DS70N2-T	AE3F3-R4N2-T	AE3F3-10DN2-10L-T
			NO+NC	AE3F3-DS50N3-T	AE3F3-DS70N3-T	AE3F3-R4N3-T	AE3F3-10DN3-10L-T
		PNP	NO	AE3F3-DS50P1-T	AE3F3-DS70P1-T	AE3F3-R4P1-T	AE3F3-10DP1-10L-T
			NC	AE3F3-DS50P2-T	AE3F3-DS70P2-T	AE3F3-R4P2-T	AE3F3-10DP2-10L-T
			NO+NC	AE3F3-DS50P3-T	AE3F3-DS70P3-T	AE3F3-R4P3-T	AE3F3-10DP3-10L-T
	AC type	Two-wire	NO	AE3F3-DS50A1-T	AE3F3-DS70A1-T	AE3F3-R4A1-T	AE3F3-10DA1-10A-T
			NC	AE3F3-DS50A2-T	AE3F3-DS70A2-T	AE3F3-R4A2-T	AE3F3-10DA2-10A-T
Detection range				10~50cm	10~70cm	4m±10%	10m±10%
Detection target				Transparent/ Opaque object	Transparent/ Opaque object	Opaque object	Opaque object
Detection range regulation				Sensitivity adjuster	Sensitivity adjuster	Sensitivity adjuster	Fixed
Response time				DC: 1ms AC: 30ms	DC: 1ms AC: 30ms	DC: 1ms AC: 30ms	DC: 1ms AC: 30ms
Illustration				Chart 1		Chart 2	Chart 3



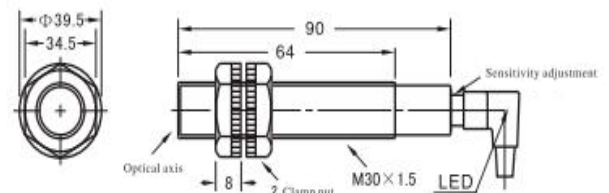
Chart 1



Chart 2



Chart 3



Characteristic Parameters

Connection delay	1.5ms
Light Source	Infrared light 660nm
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below ; Ac type: AC110-220V (90-250V) 50/60Hz
Consumption current	N.P type:20mA below; A type:1.7mA below
Control output	N.P type:300mA below; A type: 400mA below ; J type:2A below(contact service life: 0.1 million times)
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection; A type: surge absorption
Ambient temperature & humidity	During operation,storage: individually-30 ~ +65℃(no freeze,no drew), During operation,storage: Individually35~95%RH
Insulation impedance	50 MΩ above (DC500 Meg-ohmmeter) between charging part and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging part and housing
Temperature influence	Temperature range -30 ~ +65℃,at +23℃,±15% detection distance ; temperature range-25 ~ +60℃,at+23℃,±10% detection distance
Voltage influence	Inside ±15% rated supply voltage range, at rated supply voltage value: inside ±10% detection distance
Protection structure	IP67 (IEC specification)
Material	Housing: Nickel plated brass (ABS) ; Detection surface (lens) : PMMA

AE3JK Photoelectric Proximity Sensor Switch

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Chart 1



Chart 2



Chart 3

Type and Specification

Dimension				18*50*50			
Detection method				Diffuse type		Feedback reflex type	Though beam type
Type	DC type	NPN	NO	AE3JK-DS30N1	AE3JK-DS50N1	AE3JK-R4N1	AE3JK-SDN1-5L
			NC	AE3JK-DS30N2	AE3JK-DS50N2	AE3JK-R4N2	AE3JK-SDN2-5L
			NO+NC	AE3JK-DS30N3	AE3JK-DS50N3	AE3JK-R4N3	AE3JK-SDN3-5L
		PNP	NO	AE3JK-DS30P1	AE3JK-DS50P1	AE3JK-R4P1	AE3JK-SDP1-5L
			NC	AE3JK-DS30P2	AE3JK-DS50P2	AE3JK-R4P2	AE3JK-SDP2-5L
			NO+NC	AE3JK-DS30P3	AE3JK-DS50P3	AE3JK-R4P3	AE3JK-SDP3-5L
	AC type	Two-wire	NO	AE3JK-DS30A1	AE3JK-DS50A1	AE3JK-R4A1	AE3JK-SDA1-5L
			NC	AE3JK-DS30A2	AE3JK-DS50A2	AE3JK-R4A2	AE3JK-SDA2-5L
	Relay output	DC illuminate		AE3JK-DS30M1-D	HE3JK-DS50M1-D	AE3JK-R4M1-D	AE3JK-SDM1-5L-D
		AC illuminate		AE3JK-DS30M1-A	HE3JK-DS50M1-A	AE3JK-R4M1-A	AE3JK-SDM1-5L-A
		DC non-illuminate		AE3JK-DS30M2-D	HE3JK-DS50M2-D	AE3JK-R4M2-D	AE3JK-SDM2-5L-D
		AC non-illuminate		AE3JK-DS30M2-A	HE3JK-DS50M2-A	AE3JK-R4M2-A	AE3JK-SDM2-5L-A
Detection range				30cm±10%	50cm±10%	4m±10%	5m±10%
Detection target				Transparent/Opaque object	Transparent/Opaque object	Opaque object	Opaque object
Detection range regulation				Sensitivity adjuster	Sensitivity adjuster	Sensitivity adjuster	Fixed
Response time				1ms、30ms	1ms、30ms	1ms、30ms	1ms、30ms
Illustration				Chart 1		Chart 2	Chart 3

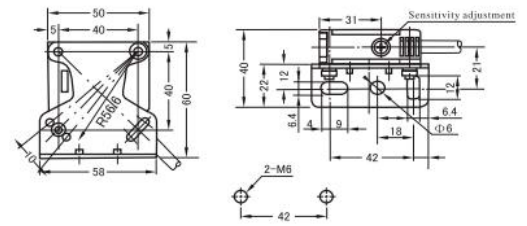


Chart 1 (3)

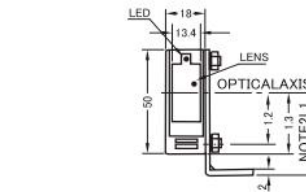


Chart 2

Characteristic Parameters

Connection delay	1.5ms
Light Source	Infrared light 660nm
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below ; Ac type: AC110-220V (90-250V) 50/60Hz
Consumption current	N.P type:20mA below; A type:1.7mA below
Control output	N.P type:300mA below; A type: 400mA below ; J type:2A below(contact service life: 0.1 million times)
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection; A type: surge absorption
Ambient temperature & humidity	During operation,storage: individually-30 ~ +65℃(no freeze,no dew), During operation,storage: Individually35~95%RH
Insulation impedance	50 MΩ above (DC500 Meg-ohmmeter) between charging part and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging part and housing
Temperature influence	Temperature range -30 ~ +65℃,at +23℃,±15% detection distance ; temperature range-25 ~ +60℃,at+23℃,±10% detection distance
Voltage influence	Inside ±15% rated supply voltage range, at rated supply voltage value; inside ±10% detection distance
Protection structure	IP67 (IEC specification)
Material	Housing: Nickel plated brass (ABS) ; Detection surface (lens) : PMMA

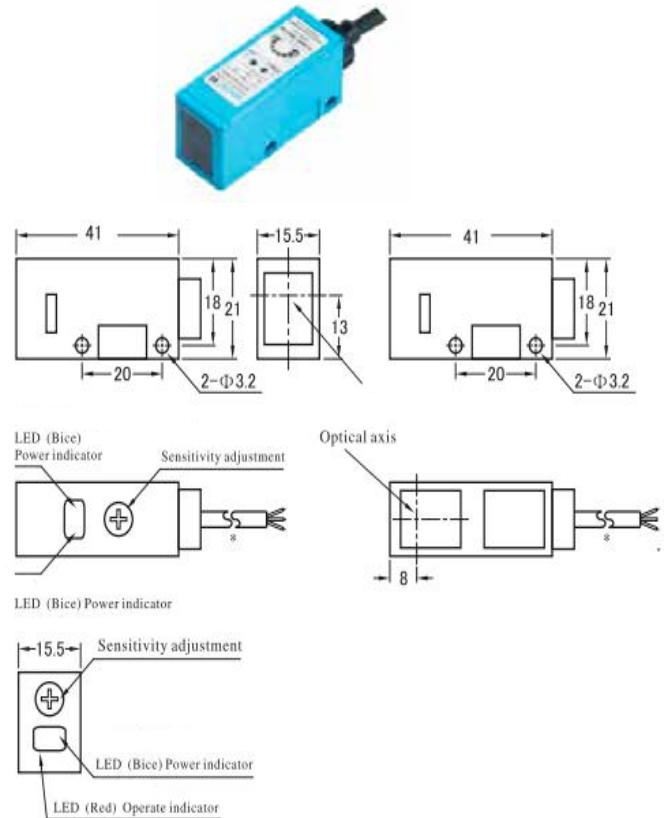
AE3S1 Photoelectric Proximity Sensor Switch

The latest high frequency, strong anti-interference photoelectric switch series

- Power supply reversal connection protection; short-circuit protection, can directly connect with PLC
- Used in common places with medium environment resistance
- Red LED indicates that it's available to detect the sensor operating state
- IP67 protection structure(IEC specification)
- Read the "Matters needing attention" of the product instruction before use

Type and Specification

Dimension				15.5*21*41		
Detection method				Diffuse type	Feedback reflex type	Though beam type
Type	DC type	NPN	NO	AE3S1-DS10N1	AE3S1-2DN1	AE3S1-2DN1-2L
			NC	AE3S1-DS10N2	AE3S1-2DN2	AE3S1-2DN2-2L
			NO+NC			
		PNP	NO	AE3S1-DS10P1	AE3S1-2DP1	AE3S1-2DP1-2L
			NC	AE3S1-DS10P2	AE3S1-2DP2	AE3S1-2DP2-2L
			NO+NC			
	AC type	Two-wire	NO			
			NC			
	Relay output	DC illuminate				
		AC illuminate				
		DC non-illuminate				
		AC non-illuminate				
Detection range				10cm±10%	1m±10%	2m±10%
Detection target				Transparent/Opaque object	Opaque object	Opaque object
Detection range regulation				Sensitivity adjuster	Fixed	Fixed
Response time				1ms	1ms	1ms



Characteristic Parameters

Connection delay	1.5ms
Light Source	Infrared light 660nm
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below ; Ac type: AC110-220V (90-250V) 50/60Hz
Consumption current	N.P type:20mA below; A type:1.7mA below
Control output	N.P type:300mA below; A type: 400mA below ; J type:2A below(contact service life: 0.1 million times)
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection; A type: surge absorption
Ambient temperature & humidity	During operation,storage: individually-30 ~ +65℃(no freeze,no drew), During operation,storage: Individually35~95%RH
Insulation impedance	50 MΩ above (DC500 Meg-ohmmeter) between charging part and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging part and housing
Temperature influence	Temperature range -30 ~ +65℃,at +23℃,±15% detection distance ; temperature range-25 ~ +60℃,at+23℃,±10% detection distance
Voltage influence	Inside ±15% rated supply voltage range, at rated supply voltage value; inside ±10% detection distance
Protection structure	IP67 (IEC specification)
Material	Housing: Nickel plated brass (ABS) ; Detection surface (lens) : PMMA

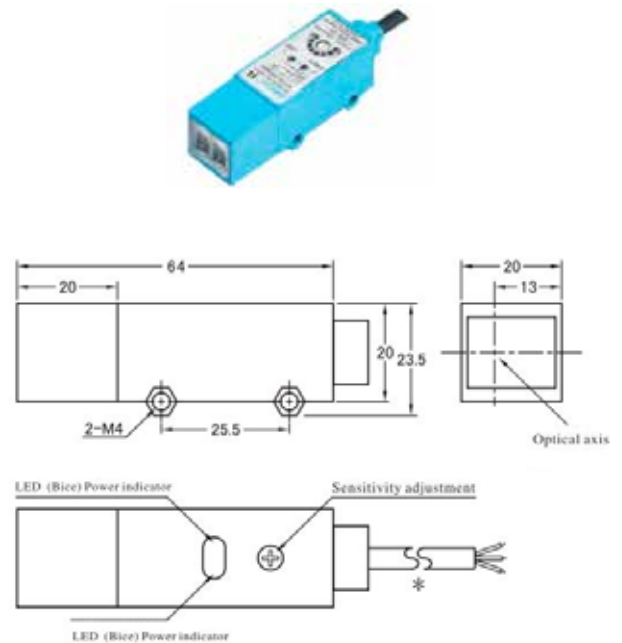
E3S Photoelectric Proximity Sensor Switch

The latest high frequency, strong anti-interference photoelectric switch series

- Power supply reversal connection protection; short-circuit protection, can directly connect with PLC
- Used in common places with medium environment resistance
- Red LED indicates that it's available to detect the sensor operating state
- IP67 protection structure(IEC specification)
- Read the "Matters needing attention" of the product instruction before use

Type and Specification

Dimension				20*20*64		
Detection method				Diffuse type	Feedback reflex type	Though beam type
Type	DC type	NPN	NO	E3S-DS30N1	E3S-R2N1	E3S-5DN1-5L
			NC	E3S-DS30N2	E3S-R2N2	E3S-5DN2-5L
			NO+NC	E3S-DS30N3	E3S-R2N3	E3S-5DN3-5L
		PNP	NO	E3S-DS30P1	E3S-R2P1	E3S-5DP1-5L
			NC	E3S-DS30P2	E3S-R2P2	E3S-5DP2-5L
			NO+NC	E3S-DS30P3	E3S-R2P3	E3S-5DP3-5L
	AC type	Two-wire	NO	E3S-DS30A1	E3S-R2A1	E3S-5A1
			NC	E3S-DS30A2	E3S-R2A2	E3S-5A2
	Relay output	DC illuminate				
		AC illuminate				
		DC non-illuminate				
		AC non-illuminate				
Detection range				30cm±10%	2m±10%	5m±10%
Detection target				Transparent/Opaque object	Opaque object	Opaque object
Detection range regulation				Sensitivity adjuster	Fixed	Fixed
Response time				DC: 1ms AC: 30ms	DC: 1ms AC: 30ms	DC: 1ms AC: 30ms



Characteristic Parameters

Connection delay	1.5ms
Light Source	Infrared light 660nm
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below ; Ac type: AC110-220V (90-250V) 50/60Hz
Consumption current	N.P type:20mA below; A type:1.7mA below
Control output	N.P type:300mA below; A type: 400mA below ; J type:2A below(contact service life: 0.1 million times)
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection; A type: surge absorption
Ambient temperature & humidity	During operation,storage: individually-30 ~ +65℃(no freeze,no drew), During operation,storage: Individually35~95%RH
Insulation impedance	50 MΩ above (DC500 Meg-ohmmeter) between charging part and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging part and housing
Temperature influence	Temperature range -30 ~ +65℃,at +23℃,±15% detection distance ; temperature range-25 ~ +60℃,at+23℃,±10% detection distance
Voltage influence	Inside ±15% rated supply voltage range, at rated supply voltage value; inside ±10% detection distance
Protection structure	IP67 (IEC specification)
Material	Housing: Nickel plated brass (ABS) ; Detection surface (lens) : PMMA

E3S Photoelectric Proximity Sensor Switch

The latest high frequency, strong anti-interference photoelectric switch series

- Power supply reversal connection protection; short-circuit protection, can directly connect with PLC
- Used in common places with medium environment resistance
- Red LED indicates that it's available to detect the sensor operating state
- IP67 protection structure(IEC specification)
- Read the "Matters needing attention" of the product instruction before use

Type and Specification

Dimension				16*25*55	16*35.5*40.5	20*52*72	
Detection method				Slot type	Slot type	Slot type	
Type	DC type	NPN	NO	E3S-GS7N1	E3S-GS15N1	E3S-GS30N1	
			NC	E3S-GS7N2	E3S-GS15N2	E3S-GS30N2	
			NO+NC			E3S-GS30N3	
		PNP	NO	E3S-GS7P1	E3S-GS15P1	E3S-GS30P1	
			NC	E3S-GS7P2	E3S-GS15P2	E3S-GS30P2	
			NO+NC			E3S-GS30P3	
	AC type	Two-wire	NO				
			NC				
	Relay output		DC illuminate				
			AC illuminate				
			DC non-illuminate				
			AC non-illuminate				
	Detection range				7mm	15mm	30mm
	Detection target				Opaque object	Opaque object	Opaque object
Detection range regulation				Sensitivity adjuster	Sensitivity adjuster	Sensitivity adjuster	
Response time				1ms	1ms	1ms	
Illustration				Chart 1	Chart 2	Chart 3	

Characteristic Parameters

Connection delay	1.5ms
Light Source	Infrared light 660nm
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below ; Ac type: AC110-220V (90-250V) 50/60Hz
Consumption current	N.P type:20mA below; A type:1.7mA below
Control output	N.P type:300mA below; A type: 400mA below ; J type:2A below(contact service life: 0.1 million times)
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection; A type: surge absorption
Ambient temperature & humidity	During operation,storage: individually-30 ~ +65℃(no freeze,no drew), During operation,storage: Individually35~95%RH
Insulation impedance	50 MΩ above (DC500 Meg-ohmmeter) between charging part and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging part and housing
Temperature influence	Temperature range -30 ~ +65℃,at +23℃,±15% detection distance ; temperature range-25 ~ +60℃,at+23℃,±10% detection distance
Voltage influence	Inside ±15% rated supply voltage range, at rated supply voltage value; inside ±10% detection distance
Protection structure	IP67 (IEC specification)
Material	Housing: Nickel plated brass (ABS) ; Detection surface (lens) : PMMA

Chart 1

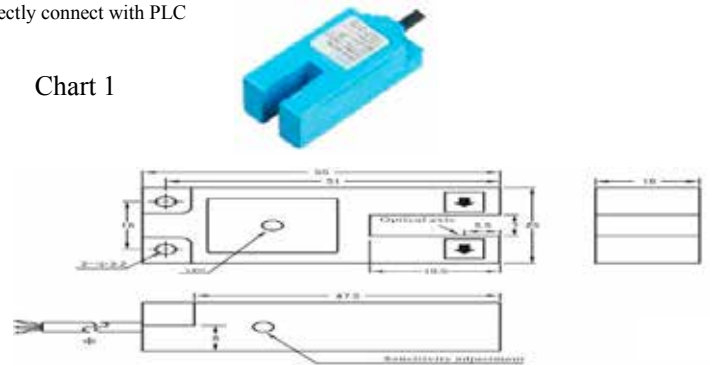


Chart 2

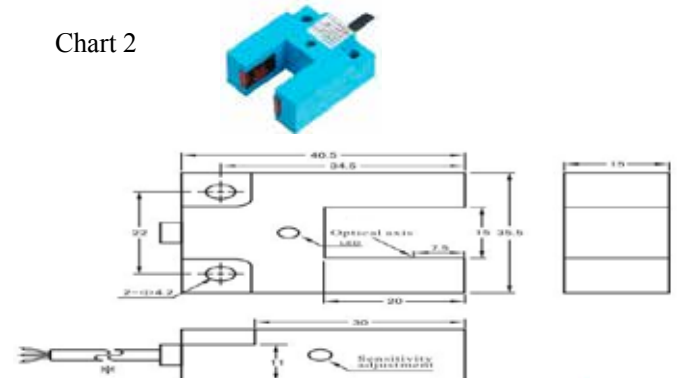
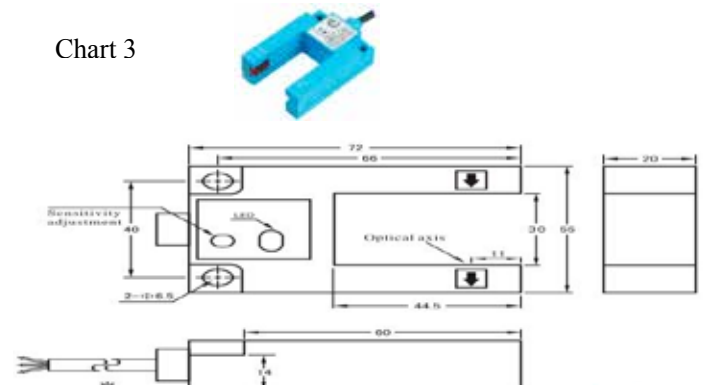


Chart 3



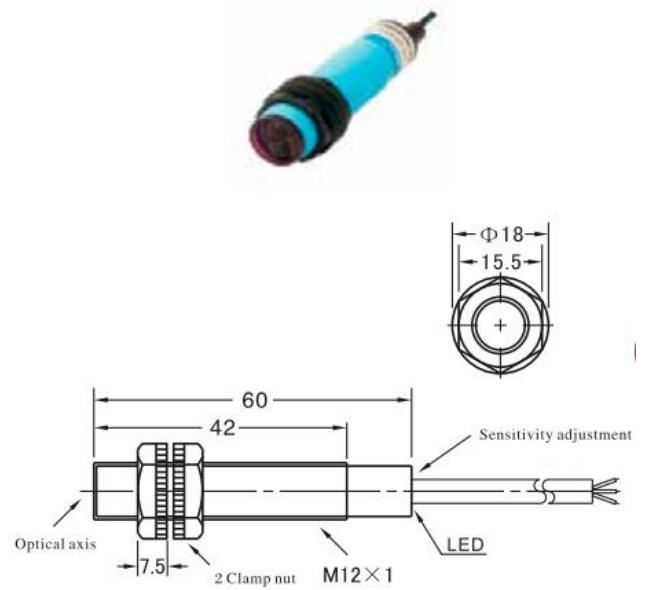
HE3F1 Photoelectric Proximity Sensor Switch

The latest high frequency, strong anti-interference photoelectric switch series

- Power supply reversal connection protection; short-circuit protection, can directly connect with PLC
- Used in common places with medium environment resistance
- Red LED indicates that it's available to detect the sensor operating state
- IP67 protection structure(IEC specification)
- Read the "Matters needing attention" of the product instruction before use

Type and Specification

Dimension				M12*1			
Detection method				Diffuse type		Feedback reflex type	Though beam type
Type	DC type	NPN	NO	HE3F1-DS5N1	HE3F1-DS8N1	HE3F1-R1N1	HE3F1-3DN1-3L
			NC	HE3F1-DS5N2	HE3F1-DS8N2	HE3F1-R1N2	HE3F1-3DN2-3L
			NO+NC				
		PNP	NO	HE3F1-DS5P1	HE3F1-DS8P1	HE3F1-R1P1	HE3F1-3DP1-3L
			NC	HE3F1-DS5P2	HE3F1-DS8P2	HE3F1-R1P2	HE3F1-3DP2-3L
			NO+NC				
	AC type	Two-wire	NO				
			NC				
Detection range				5cm±10%	8cm±10%	1m±10%	3m±10%
Detection target				Transparent/ Opaque object	Transparent/ Opaque object	Opaque object	Opaque object
Detection range regulation				Fixed	Fixed	Sensitivity adjuster	Fixed
Response time				1ms	1ms	1ms	1ms
Illustration							



Characteristic Parameters

Delay distance	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below ; Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type:13mA below ; A type:1.7mA below ; D type: 0.8mA below
Control output	N.P type:300mA below A type:400mA below ; A type: 400mA below ; D type: 200mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection; A type: surge absorption
Ambient temperature & humidity	During operation,storage: individually-30 ~ +65℃(no freeze,no drew), During operation,storage: Individually35~95%RH
Insulation impedance	50 MΩ above (DC500 Meg-ohmmeter) between charging part and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging part and housing
Temperature influence	Temperature range -30 ~ +65℃,at +23℃,±15% detection distance ; temperature range-25 ~ +60℃,at+23℃,±10% detection distance
Voltage influence	Inside ±15% rated supply voltage range, at rated supply voltage value; inside ±10% detection distance
Protection structure	IP67 (IEC specification)
Material	Housing: Nickel plated brass; Detection surface: ABS

HE3F Photoelectric Proximity Sensor Switch

The latest high frequency, strong anti-interference photoelectric switch series

- Power supply reversal connection protection; short-circuit protection, can directly connect with PLC
- Used in common places with medium environment resistance
- Red LED indicates that it's available to detect the sensor operating state
- IP67 protection structure(IEC specification)
- Read the "Matters needing attention" of the product instruction before use

Type and Specification

Dimension				M18*1			
Detection method				Diffuse type		Feedback reflex type	Though beam type
Type	DC type	NPN	NO	HE3F-DS10N1	HE3F-DS30N1	HE3F-R2N1	HE3F-5DN1-5L
			NC	HE3F-DS10N2	HE3F-DS30N2	HE3F-R2N2	HE3F-5DN2-5L
			NO+NC	HE3F-DS10N3	HE3F-DS30N3	HE3F-R2N3	HE3F-5DN3-5L
		PNP	NO	HE3F-DS10P1	HE3F-DS30P1	HE3F-R2P1	HE3F-5DP1-5L
			NC	HE3F-DS10P2	HE3F-DS30P2	HE3F-R2P2	HE3F-5DP2-5L
			NO+NC	HE3F-DS10P3	HE3F-DS30P3	HE3F-R2P3	HE3F-5DP3-5L
	AC type	Two-wire	NO	HE3F-DS10A1	HE3F-DS30A1	HE3F-R2A1	HE3F-5DA1-5A
			NC	HE3F-DS10A2	HE3F-DS30A2	HE3F-R2A2	HE3F-5DA2-5A
Detection range				10cm±10%	10-30cm±10%	2m±10%	5m±10%
Detection target				Transparent/ Opaque object	Transparent/ Opaque object	Opaque object	Opaque object
Detection range regulation				Fixed	Fixed	Sensitivity adjuster	Fixed
Response time				DC:1ms AC:30ms	DC:1ms AC:30ms	DC:1ms AC:30ms	DC:1ms AC:30ms
Illustration							



Characteristic Parameters

Delay distance	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below ; Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type:13mA below ; A type:1.7mA below ; D type: 0.8mA below
Control output	N.P type:300mA below ; A type: 400mA below ; D type: 200mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection; A type: surge absorption
Ambient temperature & humidity	During operation,storage: individually-30 ~ +65℃(no freeze,no drew), During operation,storage: Individually35~95%RH
Insulation impedance	50 MΩ above (DC500 Meg-ohmmeter) between charging part and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging part and housing
Temperature influence	Temperature range -30 ~ +65℃,at +23℃,±15% detection distance ; temperature range-25 ~ +60℃,at+23℃,±10% detection distance
Voltage influence	Inside ±15% rated supply voltage range, at rated supply voltage value; inside ±10% detection distance
Protection structure	IP67 (IEC specification)
Material	Housing: Nickel plated brass; Detection surface: ABS

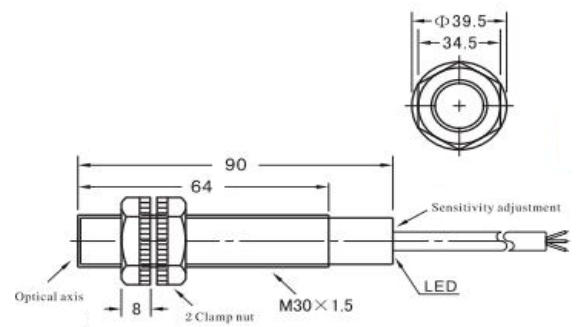
HE3F3 Photoelectric Proximity Sensor Switch

The latest high frequency, strong anti-interference photoelectric switch series

- Power supply reversal connection protection; short-circuit protection, can directly connect with PLC
- Used in common places with medium environment resistance
- Red LED indicates that it's available to detect the sensor operating state
- IP67 protection structure(IEC specification)
- Read the "Matters needing attention" of the product instruction before use

Type and Specification

Dimension				M30*1.5			
Detection method				Diffuse type		Feedback reflex type	Though beam type
Type	DC type	NPN	NO	HE3F3-DS50N1	HE3F3-DS70N1	HE3F3-R4N1	HE3F3-10DN1-10L
			NC	HE3F3-DS50N2	HE3F3-DS70N2	HE3F3-R4N2	HE3F3-10DN2-10L
			NO+NC	HE3F3-DS50N3	HE3F3-DS70N3	HE3F3-R4N3	HE3F3-10DN3-10L
		PNP	NO	HE3F3-DS50P1	HE3F3-DS70P1	HE3F3-R4P1	HE3F3-10DP1-10L
			NC	HE3F3-DS50P2	HE3F3-DS70P2	HE3F3-R4P2	HE3F3-10DP2-10L
			NO+NC	HE3F3-DS50P3	HE3F3-DS70P3	HE3F3-R4P3	HE3F3-10DP3-10L
	AC type	Two-wire	NO	HE3F3-DS50A1	HE3F3-DS70A1	HE3F3-R4A1	HE3F3-10DA1-10A
			NC	HE3F3-DS50A2	HE3F3-DS70A2	HE3F3-R4A2	HE3F3-10DA2-10A
Detection range				10-50cm	10-70cm	4m±10%	10m±10%
Detection target				Transparent/ Opaque object	Transparent/ Opaque object	Opaque object	Opaque object
Detection range regulation				Sensitivity adjuster	Sensitivity adjuster	Sensitivity adjuster	Fixed
Response time				DC:1ms AC:30ms	DC:1ms AC:30ms	DC:1ms AC:30ms	DC:1ms AC:30ms



Characteristic Parameters

Delay distance	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below ; Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type:13mA below; A type:1.7mA below ; D type: 0.8mA below
Control output	N.P type:300mA below; A type: 400mA below ; D type: 200mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection; A type: surge absorption
Ambient temperature & humidity	During operation,storage: individually-30 ~ +65℃(no freeze,no drew), During operation,storage: Individually35~95%RH
Insulation impedance	50 MΩ above (DC500 Meg-ohmmeter) between charging part and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging part and housing
Temperature influence	Temperature range -30 ~ +65℃,at +23℃,±15% detection distance ; temperature range-25 ~ +60℃,at+23℃,±10% detection distance
Voltage influence	Inside ±15% rated supply voltage range, at rated supply voltage value; inside ±10% detection distance
Protection structure	IP67 (IEC specification)
Material	Housing: Nickel plated brass; Detection surface: ABS

E3F1 Photoelectric Proximity Sensor Switch

The columned can with various domestic same species directly replaced

- Power supply reversal connection protection; short-circuit protection, can directly connect with PLC
- Newly added current over-load protection
- Long service life, high reliability and strong resistance property to environment
- Red LED indicates that it's available to detect the sensor operating state
- Newly added metal housing to improve the installation intensity
- Countermeasure to improve the housing intensity and to solve disconnection
- IP67 protection structure(IEC specification)
- Read the "Matters needing attention" of the product instruction before use

Type and Specification

Dimension				M12*1			
Detection method				Diffuse type		Feedback reflex type	Though beam type
Type	DC type	NPN	NO	E3F1-DS5C4	E3F1-DS8C4	E3F1-R1NK	E3F1-3DN1-3L
			NC	E3F1-DS5B2	E3F1-DS8B2	E3F1-R1N2	E3F1-3DN2-3L
			NO+NC				
		PNP	NO	E3F1-DS5P1	E3F1-DS8P1	E3F1-R1PK	E3F1-3DP1-3L
			NC	E3F1-DS5P2	E3F1-DS8P2	E3F1-R1P2	E3F1-3DP2-3L
			NO+NC				
	AC type	Two-wire	NO				
			NC				
		Three-wire No					
		Relay output					
Detection range				5cm±10%	8cm±10%	1m±10%	3m±10%
Detection target				Transparent/ Opaque object	Transparent/ Opaque object	Opaque object	Opaque object
Detection range regulation				Fixed	Fixed	Sensitivity adjuster	Fixed
Response time				1ms	1ms	1ms	1ms
Illustration				Chart 1		Chart 2	Chart 3

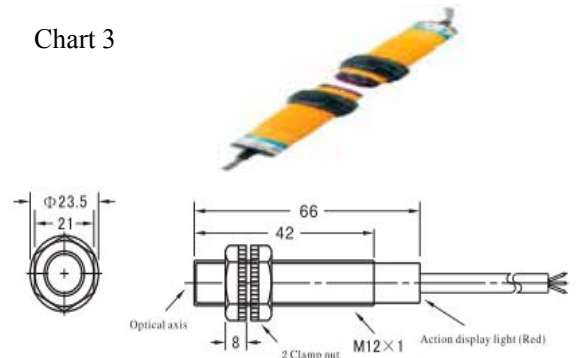
Chart 1



Chart 2



Chart 3



Characteristic Parameters

Connection delay	1.5ms
Light Source	Infrared light 660nm
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below ; Ac type: AC110-220V (90-250V) 50/60Hz
Consumption current	N.P type:20mA below; A type:1.7mA below
Control output	N.P type:300mA below ; A type: 400mA below ; J type:2A below(contact service life: 0.1 million times)
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection; A type: surge absorption
Ambient temperature & humidity	During operation,storage: individually-30 ~ +65℃(no freeze,no drew), During operation,storage: Individually35~95%RH
Insulation impedance	50 MΩ above (DC500 Meg-ohmmeter) between charging part and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging part and housing
Temperature influence	Temperature range -30 ~ +65℃,at +23℃,±15% detection distance ; temperature range-25 ~ +60℃,at+23℃,±10% detection distance
Voltage influence	Inside ±15% rated supply voltage range, at rated supply voltage value; inside ±10% detection distance
Protection structure	IP67 (IEC specification)
Material	Housing: Nickel plated brass (ABS) ; Detection surface (lens) : PMMA

E3F Photoelectric Proximity Sensor Switch

The columned can with various domestic same species directly replaced

- Power supply reversal connection protection; short-circuit protection; can directly connect with PLC
- Newly added current over-load protection
- Long service life, high reliability and strong resistance property to environment
- Red LED indicates that it's available to detect the sensor operating state
- Newly added metal housing to improve the installation intensity
- Countermeasure to improve the housing intensity and to solve disconnection
- IP67 protection structure(IEC specification)
- Read the "Matters needing attention" of the product instruction before use

Type and Specification

Dimension				M18*1				
Detection method				Diffuse type			Feedback reflex type	Though beam type
Type	DC type	NPN	NO	E3F-DS10C4	E3F-DS20C4	E3F-DS30C4	E3F-R2NK	E3F-SDN1-5L
			NC	E3F-DS10B2	E3F-DS20B2	E3F-DS30B2	E3F-R2N2	E3F-SDN2-5L
			NO+NC	E3F-DS10C3	E3F-DS20C3	E3F-DS30C3	E3F-R2N3	E3F-SDN3-5L
		PNP	NO	E3F-DS10P1	E3F-DS20P1	E3F-DS30P1	E3F-R2PK	E3F-SDP1-5L
			NC	E3F-DS10P2	E3F-DS20P2	E3F-DS30P2	E3F-R2P2	E3F-SDP2-5L
			NO+NC	E3F-DS10P3	E3F-DS20P3	E3F-DS30P3	E3F-R2P3	E3F-SDP3-5L
	AC type	Two- wire	NO	E3F-DS10Y1	E3F-DS20Y1	E3F-DS30Y1	E3F-R2Y1	E3F-SDY1-5LY
			NC	E3F-DS10Y2	E3F-DS20Y2	E3F-DS30Y2	E3F-R2Y2	E3F-SDY2-5LY
		Three-wire No						
		Relay output						
Detection range				10cm±10%	10-20cm±10%	10-30cm±10%	2m±10%	5m±10%
Detection target				Transparent/ Opaque object	Transparent/ Opaque object	Transparent/ Opaque object	Opaque object	Opaque object
Detection range regulation				Fixed	Sensitivity adjuster	Sensitivity adjuster	Sensitivity adjuster	Fixed
Response time				1ms	1ms	1ms	1ms	1ms
Illustration				Chart 1			Chart 2	Chart 3

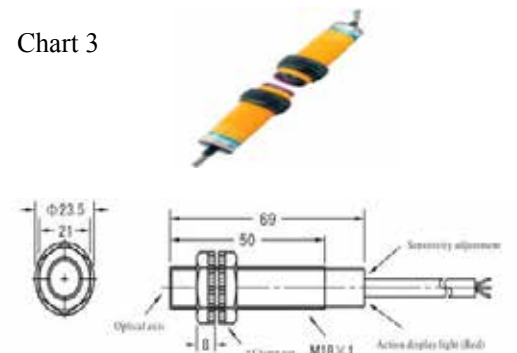
Chart 1



Chart 2



Chart 3



Characteristic Parameters

Connection delay	1.5ms
Light Source	Infrared light 660nm
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below ; Ac type: AC110-220V (90-250V) 50/60Hz
Consumption current	N.P type:20mA below; A type:1.7mA below
Control output	N.P type:300mA below; A type: 400mA below ; J type:2A below(contact service life: 0.1 million times)
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection; A type: surge absorption
Ambient temperature & humidity	During operation,storage: individually-30 ~ +65℃(no freeze,no drew), During operation,storage: Individually35~95%RH
Insulation impedance	50 MΩ above (DC500 Meg-ohmmeter) between charging part and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging part and housing
Temperature influence	Temperature range -30 ~ +65℃,at +23℃,±15% detection distance ; temperature range-25 ~ +60℃,at+23℃,±10% detection distance
Voltage influence	Inside ±15% rated supply voltage range, at rated supply voltage value; inside ±10% detection distance
Protection structure	IP67 (IEC specification)
Material	Housing: Nickel plated brass (ABS) ; Detection surface (lens) : PMMA

E3F3 Photoelectric Proximity Sensor Switch

The columned can with various domestic same species directly replaced

- Power supply reversal connection protection; short-circuit protection, can directly connect with PLC
- Newly added current over-load protection
- Long service life, high reliability and strong resistance property to environment
- Red LED indicates that it's available to detect the sensor operating state
- Newly added metal housing to improve the installation intensity
- Countermeasure to improve the housing intensity and to solve disconnection
- IP67 protection structure(IEC specification)
- Read the "Matters needing attention" of the product instruction before use

Type and Specification

Dimension				M30*1.5			
Detection method				Diffuse type		Feedback reflex type	Though beam type
Type	DC type	NPN	NO	E3F3-DS50N1	E3F3-DS70N1	E3F3-R4NK	E3F3-10DN1-10L
			NC	E3F3-DS50N2	E3F3-DS70N2	E3F3-R4N2	E3F3-10DN2-10L
			NO+NC	E3F3-DS50N3	E3F3-DS70N3	E3F3-R4N3	E3F3-10DN3-10L
		PNP	NO	E3F3-DS50P1	E3F3-DS70P1	E3F3-R4PK	E3F3-10DP1-10L
			NC	E3F3-DS50P2	E3F3-DS70P2	E3F3-R4P2	E3F3-10DP2-10L
			NO+NC	E3F3-DS50P3	E3F3-DS70P3	E3F3-R4P3	E3F3-10DP3-10L
	AC type	Two- wire	NO	E3F-DS50Y1	E3F-DS70Y1	E3F3-R4Y1	E3F-10DY1-10LY
			NC	E3F-DS50Y2	E3F-DS70Y2	E3F3-R4Y2	E3F-10DY2-10LY
		Three-wire No					
		Relay output					
Detection range			50cm±10%	70cm±10%	4m±10%	10m±10%	
Detection target			Transparent/ Opaque object	Transparent/ Opaque object	Opaque object	Opaque object	
Detection range regulation			Sensitivity adjuster	Sensitivity adjuster	Sensitivity adjuster	Fixed	
Response time			1ms	1ms	1ms	1ms	
Illustration			Chart 1		Chart 2	Chart 3	

Characteristic Parameters

Connection delay	1.5ms
Light Source	Infrared light 660nm
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below ; Ac type: AC110-220V (90-250V) 50/60Hz
Consumption current	N.P type:20mA below ; A type:1.7mA below
Control output	N.P type:300mA below ; A type: 400mA below ; J type:2A below(contact service life: 0.1 million times)
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection; A type: surge absorption
Ambient temperature & humidity	During operation,storage: individually-30 ~ +65℃ (no freeze,no drew), During operation,storage: Individually35~95%RH
Insulation impedance	50 MΩ above (DC500 Meg-ohmmeter) between charging part and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging part and housing
Temperature influence	Temperature range -30 ~ +65℃,at +23℃,±15% detection distance ; temperature range-25 ~ +60℃,at+23℃,±10% detection distance
Voltage influence	Inside ±15% rated supply voltage range, at rated supply voltage value; inside ±10% detection distance
Protection structure	IP67 (IEC specification)
Material	Housing: Nickel plated brass (ABS) ; Detection surface (lens) : PMMA

Chart 1

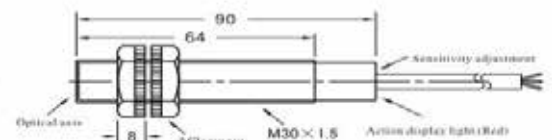


Chart 2

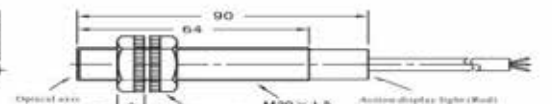
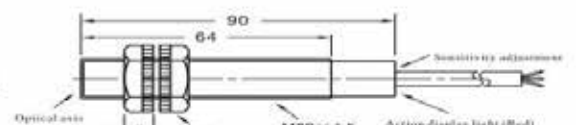


Chart 3



E3F1 Photoelectric Proximity Sensor Switch

The columned can with various domestic same species directly replaced

- Power supply reversal connection protection; short-circuit protection; can directly connect with PLC
- Newly added current over-load protection
- Long service life, high reliability and strong resistance property to environment
- Red LED indicates that it's available to detect the sensor operating state
- Newly added metal housing to improve the installation intensity
- Countermeasure to improve the housing intensity and to solve disconnection
- IP67 protection structure(IEC specification)
- Read the "Matters needing attention" of the product instruction before use

Type and Specification

Dimension				M12*1			
Detection method				Diffuse type		Feedback reflex type	Though beam type
Type	DC type	NPN	NO	E3F1-DS5C4-G	E3F1-DS8C4-G	E3F1-R1NK-G	E3F1-3DN1-3L-G
			NC	E3F1-DS5B2-G	E3F1-DS8B2-G	E3F1-R1N2-G	E3F1-3DN2-3L-G
			NO+NC				
		PNP	NO	E3F1-DS5P1-G	E3F1-DS8P1-G	E3F1-R1PK-G	E3F13DP1-3L-G
			NC	E3F1-DS5P2-G	E3F1-DS8P2-G	E3F1-R1P2-G	E3F1-3DP2-3L-G
			NO+NC				
	AC type	Two- wire	NO				
			NC				
		Three-wire No					
		Relay output					
Detection range				5cm±10%	8cm±10%	1m±10%	3m±10%
Detection target				Transparent/ Opaque object	Transparent/ Opaque object	Opaque object	Opaque object
Detection range regulation				Fixed	Fixed	Sensitivity adjuster	Fixed
Response time				1ms	1ms	1ms	1ms
Illustration				Chart 1		Chart 2	Chart 3

Chart 1

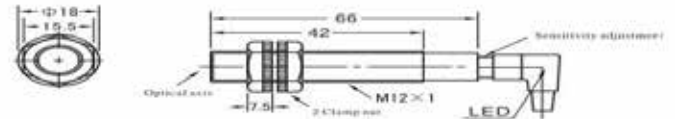


Chart 2

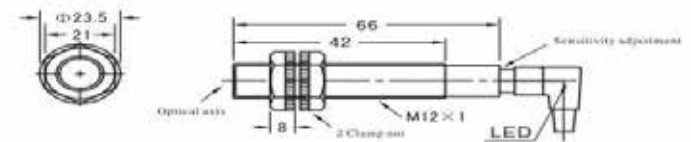
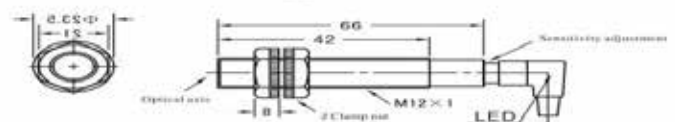


Chart 3



Characteristic Parameters

Connection delay	1.5ms
Light Source	Infrared light 660nm
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below ; Ac type: AC110-220V (90-250V) 50/60Hz
Consumption current	N.P type:20mA below; A type:1.7mA below
Control output	N.P type:300mA below ; A type: 400mA below ; J type:2A below(contact service life: 0.1 million times)
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection; A type: surge absorption
Ambient temperature & humidity	During operation,storage: individually-30 ~ +65℃(no freeze,no drew), During operation,storage: Individually35~95%RH
Insulation impedance	50 MΩ above (DC500 Meg-ohmmeter) between charging part and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging part and housing
Temperature influence	Temperature range -30 ~ +65℃,at +23℃,±15% detection distance ; temperature range-25 ~ +60℃,at+23℃,±10% detection distance
Voltage influence	Inside ±15% rated supply voltage range, at rated supply voltage value; inside ±10% detection distance
Protection structure	IP67 (IEC specification)
Material	Housing: Nickel plated brass (ABS) ; Detection surface (lens) : PMMA

E3F Photoelectric Proximity Sensor Switch

The columned can with various domestic same species directly replaced

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- Newly added current over-load protection
- Long service life, high reliability and strong resistance property to environment
- Red LED indicates that it's available to detect the sensor operating state
- Newly added metal housing to improve the installation intensity
- Countermeasure to improve the housing intensity and to solve disconnection
- IP67 protection structure(IEC specification)
- Read the "Matters needing attention" of the product instruction before use

Type and Specification

Dimension				M18*1				
Detection method				Diffuse type			Feedback reflex type	Though beam type
Type	DC type	NPN	NO	E3F-DS10C4-G	E3F-DS20C4-G	E3F-DS30C4-G	E3F-R2NK-G	E3F-5DN1-5L-G
			NC	E3F-DS10B2-G	E3F-DS20B2-G	E3F-DS30B2-G	E3F-R2N2-G	E3F-5DN2-5L-G
			NO+NC	E3F-DS10C3-G	E3F-DS20C3-G	E3F-DS30C3-G	E3F-R2N3-G	E3F-5DN3-5L-G
		PNP	NO	E3F-DS10P1-G	E3F-DS20P1-G	E3F-DS30P1-G	E3F-R2PK-G	E3F-5DP1-5L-G
			NC	E3F-DS10P2-G	E3F-DS20P2-G	E3F-DS30P2-G	E3F-R2P2-G	E3F-5DP2-5L-G
			NO+NC	E3F-DS10P3-G	E3F-DS20P3-G	E3F-DS30P3-G	E3F-R2P3-G	E3F-5DP3-5L-G
	AC type	Two-wire	NO	E3F-DS10Y1-G	E3F-DS20Y1-G	E3F-DS30Y1-G	E3F-R2Y1-G	E3F-5DY1-5LY-G
			NC	E3F-DS10Y2-G	E3F-DS20Y2-G	E3F-DS30Y2-G	E3F-R2Y2-G	E3F-5DY2-5LY-G
		Three-wire No						
		Relay output						
Detection range				10cm±10%	10-20cm±10%	10-30cm±10%	2m±10%	5m±10%
Detection target				Transparent/ Opaque object	Transparent/ Opaque object	Transparent/ Opaque object	Opaque object	Opaque object
Detection range regulation				Fixed	Sensitivity adjuster	Sensitivity adjuster	Sensitivity adjuster	Fixed
Response time				1ms	1ms	1ms	1ms	1ms
Illustration				Chart 1			Chart 2	Chart 3

Chart 1

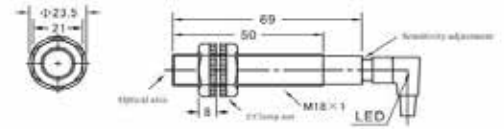


Chart 2

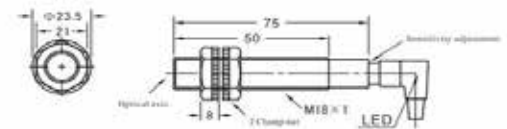
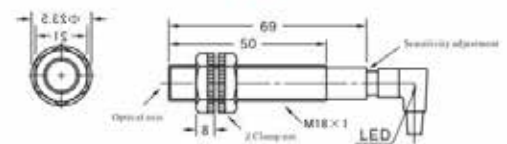


Chart 3



Characteristic Parameters

Connection delay	1.5ms
Light Source	Infrared light 660nm
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below ; Ac type: AC110-220V (90-250V) 50/60Hz
Consumption current	N.P type:20mA below; A type:1.7mA below
Control output	N.P type:300mA below; A type: 400mA below ; J type:2A below(contact service life: 0.1 million times)
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection; A type: surge absorption
Ambient temperature & humidity	During operation,storage: individually-30 ~ +65℃(no freeze,no drew), During operation,storage: Individually35~95%RH
Insulation impedance	50 MΩ above (DC500 Meg-ohmmeter) between charging part and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging part and housing
Temperature influence	Temperature range -30 ~ +65℃,at +23℃,±15% detection distance ; temperature range-25 ~ +60℃,at+23℃,±10% detection distance
Voltage influence	Inside ±15% rated supply voltage range, at rated supply voltage value; inside ±10% detection distance
Protection structure	IP67 (IEC specification)
Material	Housing: Nickel plated brass (ABS) ; Detection surface (lens) : PMMA

E3F3 Photoelectric Proximity Sensor Switch

The columned can with various domestic same species directly replaced

- Power supply reversal connection protection; short-circuit protection, can directly connect with PLC
- Newly added current over-load protection
- Long service life, high reliability and strong resistance property to environment
- Red LED indicates that it's available to detect the sensor operating state
- Newly added metal housing to improve the installation intensity
- Countermeasure to improve the housing intensity and to solve disconnection
- IP67 protection structure(IEC specification)
- Read the "Matters needing attention" of the product instruction before use

Type and Specification

Dimension				M30*1.5			
Detection method				Diffuse type		Feedback reflex	Though beam type
Type	DC type	NPN	NO	E3F3-DS50N1-G	E3F3-DS70N1-G	E3F3-R4NK-G	E3F3-10DN1-10L-G
			NC	E3F3-DS50N2-G	E3F3-DS70N2-G	E3F3-R4N2-G	E3F3-10DN2-10L-G
			NO+NC	E3F3-DS50N3-G	E3F3-DS70N3-G	E3F3-R4N3-G	E3F3-10DN3-10L-G
		PNP	NO	E3F3-DS50P1-G	E3F3-DS70P1-G	E3F3-R4PK-G	E3F3-10DP1-10L-G
			NC	E3F3-DS50P2-G	E3F3-DS70P2-G	E3F3-R4P2-G	E3F3-10DP2-10L-G
			NO+NC	E3F3-DS50P3-G	E3F3-DS70P3-G	E3F3-R4P3-G	E3F3-10DP3-10L-G
	AC type	Two- wire	NO	E3F-DS50Y1-G	E3F-DS70Y1-G	E3F3-R4Y1-G	E3F-10DY1-10LY-G
			NC	E3F-DS50Y2-G	E3F-DS70Y2-G	E3F3-R4Y2-G	E3F-10DY2-10LY-G
		Three-wire No					
		Relay output					
Detection range				50cm±10%	70cm±10%	4m±10%	10m±10%
Detection target				Transparent/Opaque object	Transparent/Opaque object	Opaque object	Opaque object
Detection range regulation				Sensitivity adjuster	Sensitivity adjuster	Sensitivity adjuster	Fixed
Response time				1ms	1ms	1ms	1ms
Illustration				Chart 1		Chart 2	Chart 3

Characteristic Parameters

Connection delay	1.5ms
Light Source	Infrared light 660nm
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below ; Ac type: AC110-220V (90-250V) 50/60Hz
Consumption current	N.P type:20mA below; A type:1.7mA below
Control output	N.P type:300mA below; A type: 400mA below ; J type:2A below(contact service life: 0.1 million times)
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection; A type: surge absorption
Ambient temperature & humidity	During operation,storage: individually-30 ~ +65℃(no freeze,no drew), During operation,storage: Individually35~95%RH
Insulation impedance	50 MΩ above (DC500 Meg-ohmmeter) between charging part and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging part and housing
Temperature influence	Temperature range -30 ~ +65℃,at +23℃,±15% detection distance ; temperature range-25 ~ +60℃,at+23℃,±10% detection distance
Voltage influence	Inside ±15% rated supply voltage range, at rated supply voltage value; inside ±10% detection distance
Protection structure	IP67 (IEC specification)
Material	Housing: Nickel plated brass (ABS) ; Detection surface (lens) : PMMA

Chart 1



Chart 2



Chart 3



E3F3 Photoelectric Proximity Sensor Switch

The columned can with various domestic same species directly replaced

- Power supply reversal connection protection; short-circuit protection, can directly connect with PLC
- Newly added current over-load protection
- Long service life, high reliability and strong resistance property to environment
- Red LED indicates that it's available to detect the sensor operating state
- Newly added metal housing to improve the installation intensity
- Countermeasure to improve the housing intensity and to solve disconnection
- IP67 protection structure(IEC specification)
- Read the "Matters needing attention" of the product instruction before use

Type and Specification

Dimension				M18*1			
Detection method				Diffuse type		Feedback reflex type	Though beam type
Type	DC type	NPN	NO	E3F3-D11	E3F3-D12	E3F3-R11	E3F3-T11
			NC	E3FE-D61	E3F3-D62	E3F3-R61	E3F3-T61
			NO+NC				
		PNP	NO	E3FE-D31	E3F3-D32	E3F3-R31	E3F3-T31
			NC	E3FE-D81	E3F3-D82	E3F3-R81	E3F3-T81
			NO+NC				
Detection range			10cm±10%	10-30cm±10%	3cm±10%	5cm±10%	
Detection target			Transparent /Opaque object	Transparent/ Opaque object	Transparent/ Opaque object	Transparent/Opaque object	
Detection range regulation			Sensitivity adjuster	Sensitivity adjuster	Sensitivity adjuster	Fixed	
Response time			1ms	1ms	1ms	1ms	



Characteristic Parameters

Connection delay	1.5ms
Light Source	Infrared light 660nm
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below ; Ac type: AC110-220V (90-250V) 50/60Hz
Consumption current	N.P type:20mA below; A type:1.7mA below
Control output	N.P type:300mA below ; A type: 400mA below ; J type:2A below(contact service life: 0.1 million times)
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection; A type: surge absorption
Ambient temperature & humidity	During operation,storage: individually-30 ~ +65℃(no freeze,no drew), During operation,storage: Individually35~95%RH
Insulation impedance	50 MΩ above (DC500 Meg-ohmmeter) between charging part and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging part and housing
Temperature influence	Temperature range -30 ~ +65℃,at +23℃,±15% detection distance ; temperature range-25 ~ +60℃,at+23℃,±10% detection distance
Voltage influence	Inside ±15% rated supply voltage range, at rated supply voltage value; inside ±10% detection distance
Protection structure	IP67 (IEC specification)
Material	Housing: Nickel plated brass (ABS) ; Detection surface (lens) : PMMA

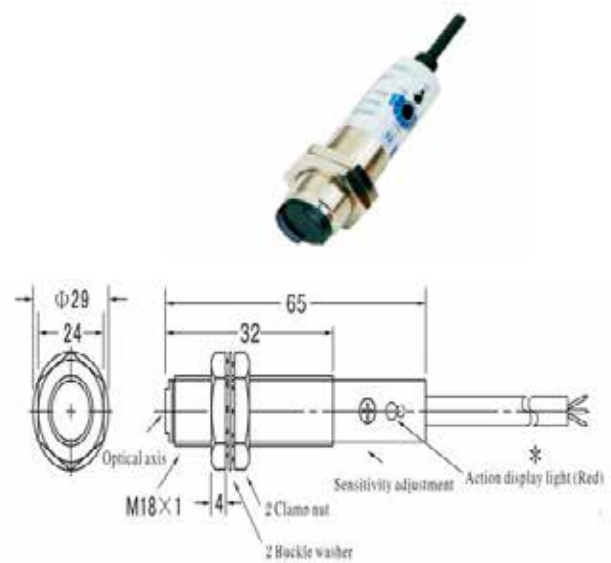
CDD Photoelectric Proximity Sensor Switch

The columned can with various domestic same species directly replaced

- Power supply reversal connection protection; short-circuit protection, can directly connect with PLC
- Newly added current over-load protection
- Long service life, high reliability and strong resistance property to environment
- Red LED indicates that it's available to detect the sensor operating state
- Newly added metal housing to improve the installation intensity
- Countermeasure to improve the housing intensity and to solve disconnection
- IP67 protection structure(IEC specification)
- Read the "Matters needing attention" of the product instruction before use

Type and Specification

Dimension				M18*1
Detection method				Diffuse type
Type	DC type	NPN	NO	
			NC	
			NO+NC	CDD-11N(40N)
		PNP	NO	
			NC	
			NO+NC	CDD-11P(40P)
Detection range				10-30cm±10%
Detection target				Transparent/Opaque object
Detection range regulation				Sensitivity adjuster
Response time				1ms



Characteristic Parameters

Connection delay	1.5ms
Light Source	Infrared light 660nm
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below ; Ac type: AC110-220V (90-250V) 50/60Hz
Consumption current	N.P type:20mA below; A type:1.7mA below
Control output	N.P type:300mA below ; A type: 400mA below ; J type:2A below(contact service life: 0.1 million times)
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection; A type: surge absorption
Ambient temperature & humidity	During operation,storage: individually-30 ~ +65℃(no freeze,no drew), During operation,storage: Individually35~95%RH
Insulation impedance	50 MΩ above (DC500 Meg-ohmmeter) between charging part and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging part and housing
Temperature influence	Temperature range -30 ~ +65℃,at +23℃,±15% detection distance ; temperature range-25 ~ +60℃,at+23℃,±10% detection distance
Voltage influence	Inside ±15% rated supply voltage range, at rated supply voltage value; inside ±10% detection distance
Protection structure	IP67 (IEC specification)
Material	Housing: Nickel plated brass (ABS) ; Detection surface (lens) : PMMA

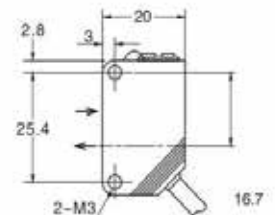
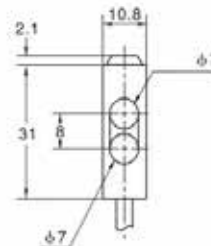
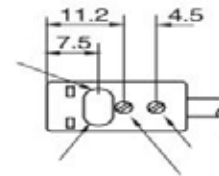
E3Z Photoelectric Proximity Sensor Switch

The columned can with various domestic same species directly replaced

- Power supply reversal connection protection; short-circuit protection, can directly connect with PLC
- Newly added current over-load protection
- Long service life, high reliability and strong resistance property to environment
- Red LED indicates that it's available to detect the sensor operating state
- Newly added metal housing to improve the installation intensity
- Countermeasure to improve the housing intensity and to solve disconnection
- IP67 protection structure(IEC specification)
- Read the "Matters needing attention" of the product instruction before use

Type and Specification

Dimension				31*20*10.8		
Detection method				Diffuse type	Feedback reflex	Though beam type
Type	DC type	NPN	NO	E3Z-D61	E3Z-R61	E3Z-T61
			NC			
			NO+NC			
		PNP	NO	E3Z-D81	E3Z-R81	E3Z-T81
			NC			
			NO+NC			
Detection range				5-100mm	4cm±10%	15cm±10%
Detection target				Transparent/Opaque object	Transparent/Opaque object	Transparent/Opaque object
Detection range regulation				Sensitivity adjuster	Sensitivity adjuster	Fixed
Response time				1ms	1ms	1ms



Characteristic Parameters

Connection delay	1.5ms
Light Source	Infrared light 660nm
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below ; Ac type: AC110-220V (90-250V) 50/60Hz
Consumption current	N.P type:20mA below ; A type:1.7mA below
Control output	N.P type:300mA below ; A type: 400mA below ; J type:2A below(contact service life: 0.1 million times)
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection ; A type: surge absorption
Ambient temperature & humidity	During operation,storage: individually-30 ~ +65℃(no freeze,no drew), During operation,storage: Individually35~95%RH
Insulation impedance	50 MΩ above (DC500 Meg-ohmmeter) between charging part and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging part and housing
Temperature influence	Temperature range -30 ~ +65℃,at +23℃,±15% detection distance ; temperature range-25 ~ +60℃,at+23℃,±10% detection distance
Voltage influence	Inside ±15% rated supply voltage range, at rated supply voltage value; inside ±10% detection distance
Protection structure	IP67 (IEC specification)
Material	Housing: Nickel plated brass (ABS) ; Detection surface (lens) : PMMA

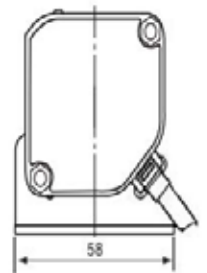
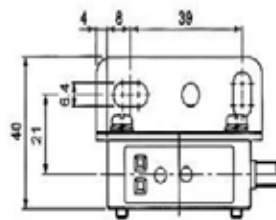
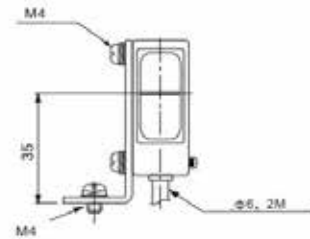
E3JK Photoelectric Proximity Sensor Switch

The columned can with various domestic same species directly replaced

- Power supply reversal connection protection; short-circuit protection, can directly connect with PLC
- Newly added current over-load protection
- Long service life, high reliability and strong resistance property to environment
- Red LED indicates that it's available to detect the sensor operating state
- Newly added metal housing to improve the installation intensity
- Countermeasure to improve the housing intensity and to solve disconnection
- IP67 protection structure(IEC specification)
- Read the "Matters needing attention" of the product instruction before use

Type and Specification

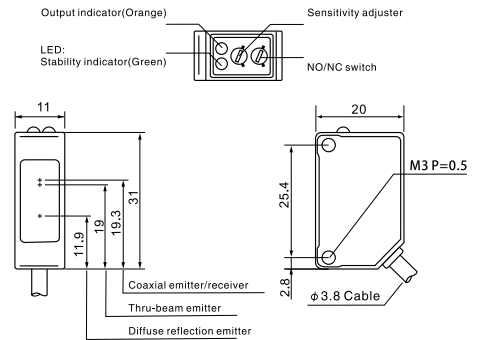
Dimension			18*50*50					
Detection method			Diffuse type		Feedback reflection type		Though beam type	
Type	DC type	NPN、NO、 NC adjustable	E3JK-DN11 -C	E3JK-DN12 -C	E3JK-RN11 -C	E3JK-RN12 -C	E3JK-TN11 -C	E3JK-TN12 -C
		PNP、NO、 NC adjustable	E3JK-DP11 C	E3JK-DP12 -C	E3JK-RP11 -C	E3JK-RP12 -C	E3JK-TP11 -C	E3JK-TP12 C
		Relay output Adjust light pass through the dark	E3JK-DR11 -C	E3JK-DR12 -C	E3JK-RR11 -C	E3JK-RR12 -C	E3JK-TR11 -C	E3JK-TR12 -C
	Detection range		2.5m±10%	30cm±10%	6m±10%	5m±10%	40m±10%	5m±10%
Detection target			Transparent/Opaque object		Opaque object		Opaque object	
Detection range regulation			Sensitivity adjuster		Sensitivity adjuster		Fixed	
Response time			1/30ms		1/30ms		1/30ms	



Characteristic Parameters

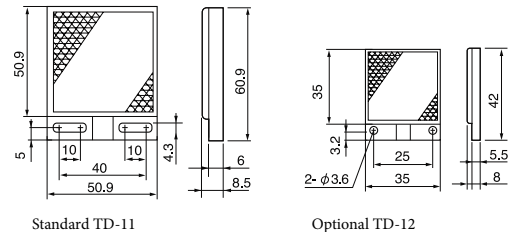
Connection delay	1.5ms
Light Source	Infrared light 660nm
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below ; Ac type: AC110-220V (90-250V) 50/60Hz
Consumption current	N.P type:20mA below; A type:1.7mA below
Control output	N.P type:300mA below ; A type: 400mA below ; J type:2A below(contact service life: 0.1 million times)
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection; A type: surge absorption
Ambient temperature & humidity	During operation,storage: individually-30 ~ +65℃(no freeze,no drew), During operation,storage: Individually35~95%RH
Insulation impedance	50 MΩ above (DC500 Meg-ohmmeter) between charging part and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging part and housing
Temperature influence	Temperature range -30 ~ +65℃,at +23℃,±15% detection distance ; temperature range-25 ~ +60℃,at+23℃,±10% detection distance
Voltage influence	Inside ±15% rated supply voltage range, at rated supply voltage value; inside ±10% detection distance
Protection structure	IP67 (IEC specification)
Material	Housing: Nickel plated brass (ABS) ; Detection surface (lens) : PMMA

EST - 200 Transparent Detection

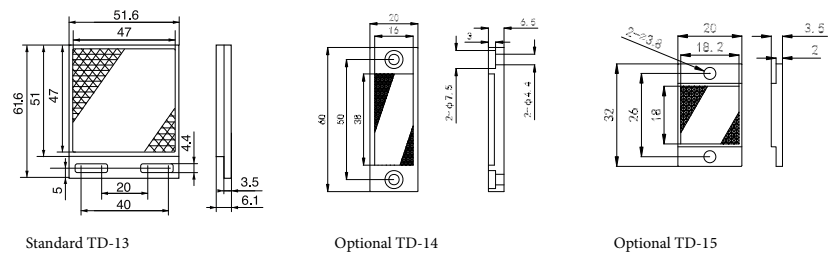


Noted:
Coaxial products only have one orange LED output indicator.

EST - 200 Reflector:



EST - X200 Reflector:



Characteristic Parameters

Sensing type		Retro-reflection	
	General Type		Coaxial beam
Sensing distance	1 ~ 200 cm		0 ~ 200 cm
Beam size	Ø 300 mm / 200 cm		Ø 60 mm / 200 cm
Output type		NPN / PNP Open-collector, ≤ 100mA/30V DC	
Switch type		Selectable L.on/D.on	
Indicator	Motion indicator: Green	Output indicator: Orange	Output indicator: Orange
Response time		0.5 ms	
Light source		Red light LED (66nm)	
Operating voltage		10~30V DC ±10%	
Current consumption		<20mA	
Ambient brightness		Sunlight ≤ 10000 Lux, Incandescent lamp ≤ 3000 Lux	
Ambient temperature		-25°C~+55°C, No freezing	
Ambient humidity		35%~85%RH, No condensation	
Degree of protection		IP67	
Connection method		2M 3 core cable	
Material		PBT+Fiberglass (Housing); PMMA (Lens)	
Accessories		Bracket	
Model No.	NPN	EST-200N	EST-X200N
	PNP	EST-200P	EST-X200P

BEN Photoelectric Proximity Sensor Switch

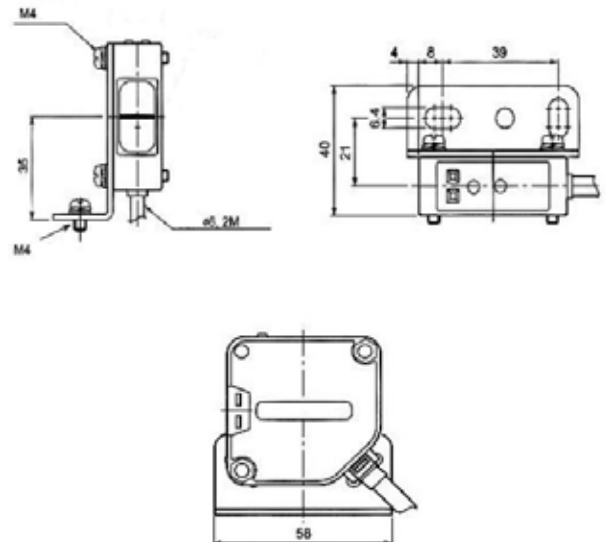
The columned can with various domestic same species directly replaced

- Power supply reversal connection protection; short-circuit protection, can directly connect with PLC
- Newly added current over-load protection
- Long service life, high reliability and strong resistance property to environment
- Red LED indicates that it's available to detect the sensor operating state
- Newly added metal housing to improve the installation intensity
- Countermeasure to improve the housing intensity and to solve disconnection
- IP67 protection structure(IEC specification)
- Read the "Matters needing attention" of the product instruction before use



Type and Specification

Dimension			18*50*50		
Detection method			Diffuse type	Feedback reflection type	Though beam type
Type	DC type	NPN、NO、NC adjustable			
		PNP、NO、NC adjustable			
	Relay output Adjust light pass through the dark		BEN300-DFR	BEN5M-MFR	BEN10M-TFR
Detection range			30cm±10%	5m±10%	10m±10%
Detection target			Transparent/Opaque object	Opaque object	Opaque object
Detection range regulation			Sensitivity adjuster	Sensitivity adjuster	Fixed
Response time			30ms	30ms	30ms



Characteristic Parameters

Connection delay	1.5ms
Light Source	Infrared light 660nm
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below ; AC type: AC110-220V (90-250V) 50/60Hz
Consumption current	N.P type:20mA below ; A type:1.7mA below
Control output	N.P type:300mA below ; A type: 400mA below ; J type:2A below(contact service life: 0.1 million times)
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection; A type: surge absorption
Ambient temperature & humidity	During operation,storage: individually-30 ~ +65℃(no freeze,no drew), During operation,storage: Individually35~95%RH
Insulation impedance	50 MΩ above (DC500 Meg-ohmmeter) between charging part and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging part and housing
Temperature influence	Temperature range -30 ~ +65℃,at +23℃,±15% detection distance ; temperature range-25 ~ +60℃,at+23℃,±10% detection distance
Voltage influence	Inside ±15% rated supply voltage range, at rated supply voltage value; inside ±10% detection distance
Protection structure	IP67 (IEC specification)
Material	Housing: Nickel plated brass (ABS) ; Detection surface (lens) : PMMA

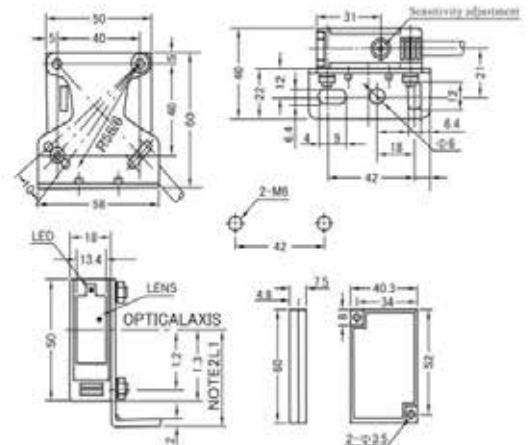
E3JK Photoelectric Proximity Sensor Switch

Square model can with various domestic same species directly replaced

- Multiple functions ,built-in relay,can drive high current load
- Cabling type and connection terminal type
- Long service life, high reliability and strong resistance property to environment
- Red LED indicates that it's available to detect the sensor operating state
- Countermeasure to improve the housing intensity and to solve disconnection
- Can provide time-delay output type
- IP65 protection structure(IEC specification)
- Read the "Matters needing attention" of the product instruction before use

Type and Specification

Dimension			18*50*50			
Detection method			Diffuse type		Feedback reflection type	Though beam type
Type	Relay output	DC illuminate	E3JK-DS30M1	E3JK-DS50M1	E3JK-R4M1	E3JK-5DM1-5L
		AC illuminate	E3JK-DS30M1	E3JK-DS50M1	E3JK-R4M1	E3JK-5DM1-5L
		DC non-illuminate	E3JK-DS30M2	E3JK-DS50M2	E3JK-R4M2	E3JK-5DM2-5L
		AC non-illuminate	E3JK-DS30M2	E3JK-DS50M2	E3JK-R4M2	E3JK-5DM2-5L
Detection range			30cm±10%	50cm±10%	4cm±10%	5m±10%
Detection target			Transparent/Opaque object	Transparent/Opaque object	Opaque object	Opaque object
Detection range regulation			Sensitivity adjuster	Sensitivity adjuster	Sensitivity adjuster	Fixed
Response time			30ms	30ms	30ms	30ms



Characteristic Parameters

Connection delay	1.5ms
Light Source	Infrared light 660nm
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below ; AC type: AC110-220V (90-250V) 50/60Hz; DC & AC type: DC12~24V/AC24~240V,50/60Hz
Power current	3 A below
Control output	2A below(contact service life: 0.1 million times)
Impulsion and vibration are allowed	B≤30g, T≤11ms, f≤55Hz, a≤1mm
Ambient temperature & humidity	During operation,storage: individually-30 ~ +65℃(no freeze,no drew), During operation,storage: Individually35~95%RH
Insulation impedance	50 MΩ above (DC500 Meg-ohmmeter) between charging part and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging part and housing
Temperature influence	Temperature range -30 ~ +65℃,at +23℃,±15% detection distance ; temperature range-25 ~ +60℃,at+23℃,±10% detection distance
Voltage influence	Inside ±15% rated supply voltage range, at rated supply voltage value; inside ±10% detection distance
Protection structure	IP67 (IEC specification)
Material	Housing: Aluminum die-casting; Detection surface (lens) : PMMA

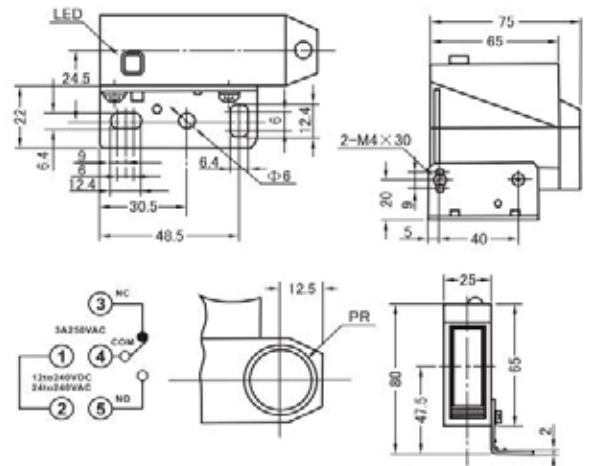
E3JM Photoelectric Proximity Sensor Switch

Square model can with various domestic same species directly replaced

- Multiple functions ,built-in relay,can drive high current load
- Cabling type and connection terminal type
- Long service life, high reliability and strong resistance property to environment
- Red LED indicates that it's available to detect the sensor operating state
- Countermeasure to improve the housing intensity and to solve disconnection
- Can provide time-delay output type
- IP65 protection structure(IEC specification)
- Read the "Matters needing attention" of the product instruction before use

Type and Specification

Dimension			25*65*75		
Detection method			Diffuse type	Feedback reflection type	Though beam type
Type	Relay output	DC illuminate	E3JM-DS70M4	E3JM-R4M4	E3JM-10DM4-10L
		AC illuminate	E3JM-DS70M4	E3JM-R4M4	E3JM-10DM4-10L
		DC non-illuminate	E3JM-DS70M2	E3JM-R4M2	E3JM-10DM2-10L
		AC non-illuminate	E3JM-DS70M2	E3JM-R4M2	E3JM-10DM2-10L
Detection range			70cm±10%	4cm±10%	10m±10%
Detection target			Transparent/ Opaque object	Opaque object	Opaque object
Detection range regulation			Sensitivity adjuster	Sensitivity adjuster	Fixed
Response time			30ms	30ms	30ms



Characteristic Parameters

Connection delay	1.5ms
Light Source	Infrared light 660nm
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below ； AC type: AC110-220V (90-250V) 50/60Hz; DC & AC type: DC12~24V/AC24~240V,50/60Hz
Power current	3 A below
Control output	2A below(contact service life: 0.1 million times)
Impulsion and vibration are allowed	B≤30g, T≤11ms, f≤55Hz, a≤1mm
Ambient temperature & humidity	During operation,storage: individually-30 ~ +65℃(no freeze,no drew), During operation,storage: Individually35~95%RH
Insulation impedance	50 MΩ above (DC500 Meg-ohmmeter) between charging part and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging part and housing
Temperature influence	Temperature range -30 ~ +65℃,at +23℃,±15% detection distance ； temperature range-25 ~ +60℃,at+23℃,±10% detection distance
Voltage influence	Inside ±15% rated supply voltage range, at rated supply voltage value; inside ±10% detection distance
Protection structure	IP67 (IEC specification)
Material	Housing: Aluminum die-casting; Detection surface (lens) : PMMA

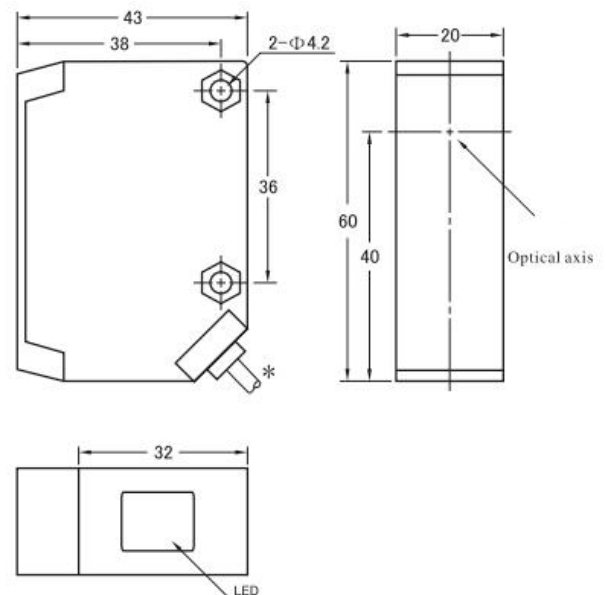
E3K Photoelectric Proximity Sensor Switch

Square model can with various domestic same species directly replaced

- Multiple functions ,built-in relay,can drive high current load
- Cabling type and connection terminal type
- Long service life, high reliability and strong resistance property to environment
- Red LED indicates that it's available to detect the sensor operating state
- Countermeasure to improve the housing intensity and to solve disconnection
- Can provide time-delay output type
- IP65 protection structure(IEC specification)
- Read the "Matters needing attention" of the product instruction before use

Type and Specification

Dimension			20*43*60		
Detection method			Diffuse type	Feedback reflection type	Though beam type
Type	Relay output	DC illuminate	E3K60-DS70M1	E3K60-R4M1	E3K60-5DM1-5L
		AC illuminate	E3K60-DS70M1	E3K60-R4M1	E3K60-5DM1-5L
		DC non-illuminate	E3K60-DS70M2	E3K60-R4M2	E3K60-5DM2-5L
		AC non-illuminate	E3K60-DS70M2	E3K60-R4M2	E3K60-5DM2-5L
Detection range			70cm±10%	4cm±10%	5m±10%
Detection target			Transparent/Opaque object	Opaque object	Opaque object
Detection range regulation			Sensitivity adjuster	Sensitivity adjuster	Fixed
Response time			30ms	30ms	30ms



Characteristic Parameters

Connection delay	1.5ms
Light Source	Infrared light 660nm
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below ; AC type: AC110-220V (90-250V) 50/60Hz; DC & AC type: DC12~24V/AC24~240V,50/60Hz
Power current	3 A below
Control output	2A below(contact service life: 0.1 million times)
Impulsion and vibration are allowed	B≤30g, T≤11ms, f≤55Hz, a≤1mm
Ambient temperature & humidity	During operation,storage: individually-30 ~ +65℃(no freeze,no drew), During operation,storage: Individually35~95%RH
Insulation impedance	50 MΩ above (DC500 Meg-ohmmeter) between charging part and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging part and housing
Temperature influence	Temperature range -30 ~ +65℃,at +23℃,±15% detection distance ; temperature range-25 ~ +60℃,at+23℃,±10% detection distance
Voltage influence	Inside ±15% rated supply voltage range, at rated supply voltage value; inside ±10% detection distance
Protection structure	IP67 (IEC specification)
Material	Housing: Aluminum die-casting; Detection surface (lens) : PMMA

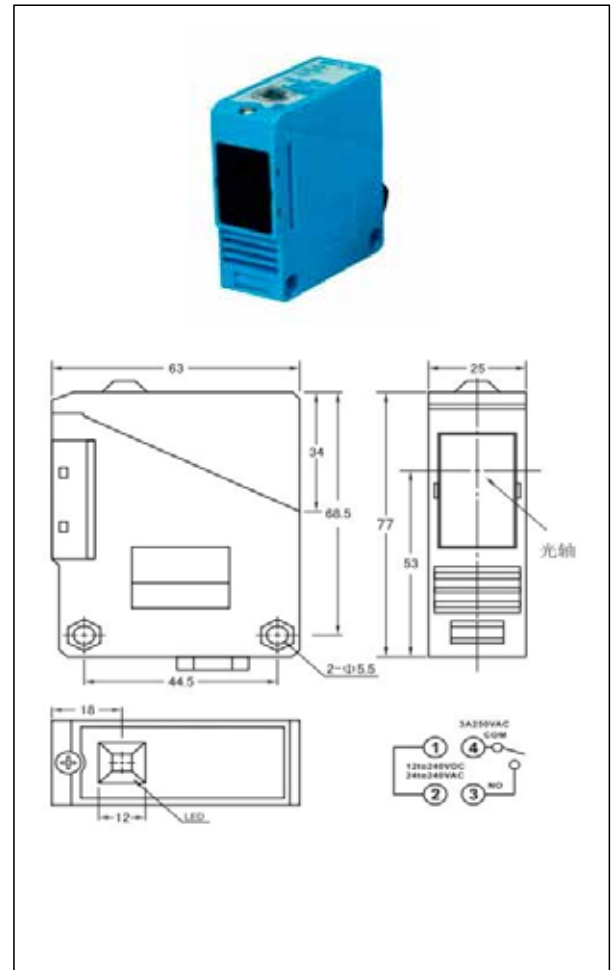
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- Cabling type and connection terminal type
- Long service life, high reliability and strong resistance property to environment
- Red LED indicates that it's available to detect the sensor operating state
- Countermeasure to improve the housing intensity and to solve disconnection
- Can provide time-delay output type
- IP65 protection structure(IEC specification)
- Read the "Matters needing attention" of the product instruction before use

Type and Specification

Dimension			26*63*78		
Detection method			Diffuse type	Feedback reflection type	Though beam type
Type	Relay output	DC illuminate	E3K78-DS80M1	E3K78-R4M1	E3K78-5DM1-5L
		AC illuminate	E3K78-DS80M1	E3K78-R4M1	E3K78-5DM1-5L
		DC non-illuminate	E3K78-DS80M2	E3K78-R4M2	E3K78-5DM2-5L
		AC non-illuminate	E3K78-DS80M2	E3K78-R4M2	E3K78-5DM2-5L
Detection range			80cm±10%	4cm±10%	5m±10%
Detection target			Transparent/Opaque object	Opaque object	Opaque object
Detection range regulation			Sensitivity adjuster	Sensitivity adjuster	Fixed
Response time			30ms	30ms	30ms



Characteristic Parameters

Connection delay	1.5ms
Light Source	Infrared light 660nm
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below ; AC type: AC110-220V (90-250V) 50/60Hz; DC & AC type: DC12~24V/AC24~240V,50/60Hz
Power current	3 A below
Control output	2A below(contact service life: 0.1 million times)
Impulsion and vibration are allowed	B≤30g, T≤11ms, f≤55Hz, a≤1mm
Ambient temperature & humidity	During operation,storage: individually-30 ~ +65℃(no freeze,no drew), During operation,storage: Individually35~95%RH
Insulation impedance	50 MΩ above (DC500 Meg-ohmmeter) between charging part and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging part and housing
Temperature influence	Temperature range -30 ~ +65℃,at +23℃,±15% detection distance ; temperature range-25 ~ +60℃,at+23℃,±10% detection distance
Voltage influence	Inside ±15% rated supply voltage range, at rated supply voltage value; inside ±10% detection distance
Protection structure	IP67 (IEC specification)
Material	Housing: Aluminum die-casting; Detection surface (lens) : PMMA

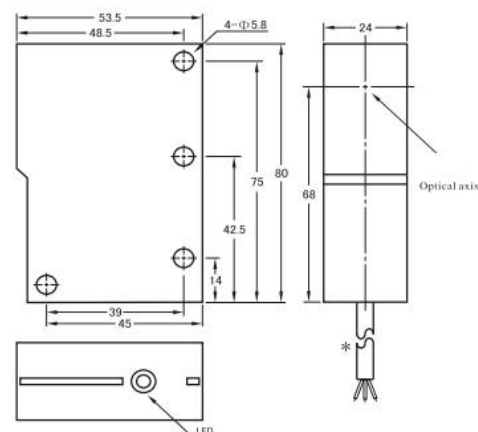
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- Countermeasure to improve the housing intensity and to solve disconnection
- Can provide time-delay output type
- IP65 protection structure(IEC specification)
- Read the "Matters needing attention" of the product instruction before use

Type and Specification

Dimension			24*53.5*80		
Detection method			Diffuse type	Feedback reflection type	Though beam type
Type	Relay output	DC illuminate	E3K80-DS80M1	E3K80-R4M1	E3K80-5DM1-5L
		AC illuminate	E3K80-DS80M1	E3K80-R4M1	E3K80-5DM1-5L
		DC non-illuminate	E3K80-DS80M2	E3K80-R4M2	E3K80-5DM2-5L
		AC non-illuminate	E3K80-DS80M2	E3K80-R4M2	E3K80-5DM2-5L
Detection range			80cm±10%	4cm±10%	5m±10%
Detection target			Transparent/Opaque object	Opaque object	Opaque object
Detection range regulation			Sensitivity adjuster	Sensitivity adjuster	Fixed
Response time			30ms	30ms	30ms
Illustration					



Characteristic Parameters

Connection delay	1.5ms
Light Source	Infrared light 660nm
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below ; AC type: AC110-220V (90-250V) 50/60Hz; DC & AC type: DC12~24V/AC24~240V,50/60Hz
Power current	3 A below
Control output	2A below(contact service life: 0.1 million times)
Impulsion and vibration are allowed	B≤30g, T≤11ms, f≤55Hz, a≤1mm
Ambient temperature & humidity	During operation,storage: individually-30 ~ +65℃(no freeze,no dew), During operation,storage: Individually35~95%RH
Insulation impedance	50 MΩ above (DC500 Meg-ohmmeter) between charging part and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging part and housing
Temperature influence	Temperature range -30 ~ +65℃,at +23℃,±15% detection distance ; temperature range-25 ~ +60℃,at+23℃,±10% detection distance
Voltage influence	Inside ±15% rated supply voltage range, at rated supply voltage value; inside ±10% detection distance
Protection structure	IP67 (IEC specification)
Material	Housing: Aluminum die-casting; Detection surface (lens) : PMMA

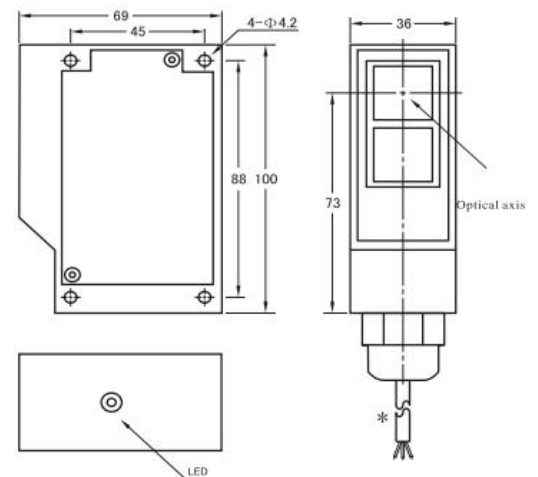
E3K Photoelectric Proximity Sensor Switch

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- Cabling type and connection terminal type
- Long service life, high reliability and strong resistance property to environment
- Red LED indicates that it's available to detect the sensor operating state
- Countermeasure to improve the housing intensity and to solve disconnection
- Can provide time-delay output type
- IP65 protection structure(IEC specification)
- Read the "Matters needing attention" of the product instruction before use

Type and Specification

Dimension			36*69*100		
Detection method			Diffuse type	Feedback reflection type	Though beam type
Type	Relay output	DC illuminate	E3K100-DS100M1	E3K100-R4M1	E3K100-10DM1-10L
		AC illuminate	E3K100-DS100M1	E3K100-R4M1	E3K100-10DM1-10L
		DC non-illuminate	E3K100-DS100M2	E3K100-R4M2	E3K100-10DM2-10L
		AC non-illuminate	E3K100-DS100M2	E3K100-R4M2	E3K100-10DM2-10L
Detection range			100cm±10%	4cm±10%	10m±10%
Detection target			Transparent/ Opaque object	Opaque object	Opaque object
Detection range regulation			Sensitivity adjuster	Sensitivity adjuster	Fixed
Response time			30ms	30ms	30ms



(GDK-3)

Characteristic Parameters

Connection delay	1.5ms
Light Source	Infrared light 660nm
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below ; AC type: AC110-220V (90-250V) 50/60Hz; DC & AC type: DC12~24V/AC24~240V,50/60Hz
Power current	3 A below
Control output	2A below(contact service life: 0.1 million times)
Impulsion and vibration are allowed	B≤30g, T≤11ms, f≤55Hz, a≤1mm
Ambient temperature & humidity	During operation,storage: individually-30 ~ +65℃(no freeze,no drew), During operation,storage: Individually35~95%RH
Insulation impedance	50 MΩ above (DC500 Meg-ohmmeter) between charging part and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging part and housing
Temperature influence	Temperature range -30 ~ +65℃,at +23℃,±15% detection distance ; temperature range-25 ~ +60℃,at+23℃,±10% detection distance
Voltage influence	Inside ±15% rated supply voltage range, at rated supply voltage value; inside ±10% detection distance
Protection structure	IP67 (IEC specification)
Material	Housing: Aluminum die-casting; Detection surface (lens) : PMMA

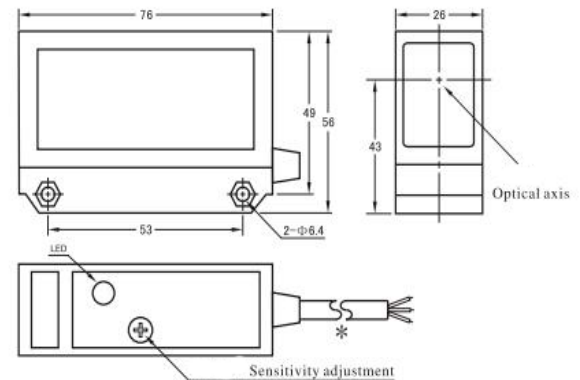
E3K Photoelectric Proximity Sensor Switch

Square model can with various domestic same species directly replaced

- Power supply reversal connection protection; short-circuit protection, can directly connect with PLC
- Newly added current over-load protection
- Long service life, high reliability and strong resistance property to environment
- Red LED indicates that it's available to detect the sensor operating state
- Newly added metal housing to improve the installation intensity
- Countermeasure to improve the housing intensity and to solve disconnection
- IP65 protection structure(IEC specification)
- Read the "Matters needing attention" of the product instruction before use

Type and Specification

Dimension			26*56*76		
Detection method			Diffuse type	Feedback reflection type	Though beam type
Type	Relay output	DC illuminate	E3K76-DS60M1	E3K76-R2M1	E3K76-5DM1-5L
		AC illuminate	E3K76-DS60M1	E3K76-R2M1	E3K76-5DM1-5L
		DC non-illuminate	E3K76-DS60M2	E3K76-R2M2	E3K76-5DM2-5L
		AC non-illuminate	E3K76-DS60M2	E3K76-R2M2	E3K76-5DM2-5L
Detection range			60cm±10%	2m±10%	5m±10%
Detection target			Transparent/Opaque object	Opaque object	Opaque object
Detection range regulation			Sensitivity adjuster	Sensitivity adjuster	Fixed
Response time			30ms	30ms	30ms



Characteristic Parameters

Connection delay	1.5ms
Light Source	Infrared light 660nm
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below ; Ac type: AC110-220V (90-250V) 50/60Hz
Consumption current	N.P type:20mA below; A type:1.7mA below
Control output	N.P type:300mA below; A type: 400mA below ; J type:2A below(contact service life: 0.1 million times)
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection; A type: surge absorption
Ambient temperature & humidity	During operation,storage: individually-30 ~ +65℃(no freeze,no drew), During operation,storage: Individually35~95%RH
Insulation impedance	50 MΩ above (DC500 Meg-ohmmeter) between charging part and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging part and housing
Temperature influence	Temperature range -30 ~ +65℃,at +23℃,±15% detection distance ; temperature range-25 ~ +60℃,at+23℃,±10% detection distance
Voltage influence	Inside ±15% rated supply voltage range, at rated supply voltage value; inside ±10% detection distance
Protection structure	IP65 (IEC specification)
Material	Housing: Aluminum die-casting (ABS) ; Detection surface (lens) : PMMA

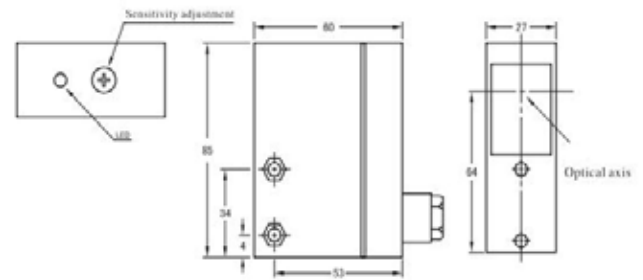
E3K Photoelectric Proximity Sensor Switch

Square model can with various domestic same species directly replaced

- Power supply reversal connection protection; short-circuit protection, can directly connect with PLC
- Newly added current over-load protection
- Long service life, high reliability and strong resistance property to environment
- Red LED indicates that it's available to detect the sensor operating state
- Newly added metal housing to improve the installation intensity
- Countermeasure to improve the housing intensity and to solve disconnection
- IP65 protection structure(IEC specification)
- Read the "Matters needing attention" of the product instruction before use

Type and Specification

Dimension			27*60*85		
Detection method			Diffuse type	Feedback reflection type	Though beam type
Type	Relay output	DC illuminate	E3K85-DS60M1	E3K85-R2M1	E3K85-5DM1-5L
		AC illuminate	E3K86-DS60M1	E3K85-R2M1	E3K85-5DM1-5L
		DC non-illuminate	E3K87-DS60M2	E3K85-R2M2	E3K85-5DM2-5L
		AC non-illuminate	E3K88-DS60M2	E3K85-R2M2	E3K85-5DM2-5L
Detection range			60cm±10%	2m±10%	5m±10%
Detection target			Transparent/ Opaque object	Opaque object	Opaque object
Detection range regulation			Sensitivity adjuster	Sensitivity adjuster	Fixed
Response time			30ms	30ms	30ms



Characteristic Parameters

Connection delay	1.5ms
Light Source	Infrared light 660nm
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below ; Ac type: AC110-220V (90-250V) 50/60Hz
Consumption current	N.P type:20mA below; A type:1.7mA below
Control output	N.P type:300mA below; A type: 400mA below ; J type:2A below(contact service life: 0.1 million times)
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection; A type: surge absorption
Ambient temperature & humidity	During operation,storage: individually-30 ~ +65℃(no freeze,no drew), During operation,storage: Individually35~95%RH
Insulation impedance	50 MΩ above (DC500 Meg-ohmmeter) between charging part and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging part and housing
Temperature influence	Temperature range -30 ~ +65℃,at +23℃,±15% detection distance ; temperature range-25 ~ +60℃,at+23℃,±10% detection distance
Voltage influence	Inside ±15% rated supply voltage range, at rated supply voltage value; inside ±10% detection distance
Protection structure	IP65 (IEC specification)
Material	Housing: Aluminum die-casting (ABS) ; Detection surface (lens) : PMMA

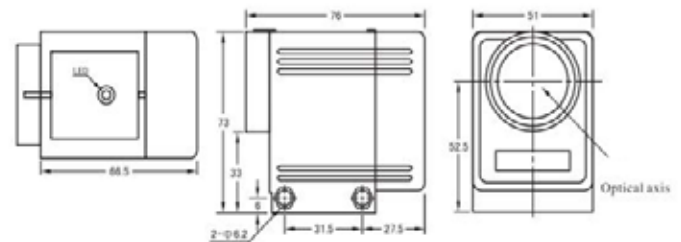
GDK Photoelectric Proximity Sensor Switch

Square model can with various domestic same species directly replaced

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- Red LED indicates that it's available to detect the sensor operating state
- Newly added metal housing to improve the installation intensity
- Countermeasure to improve the housing intensity and to solve disconnection
- IP65 protection structure(IEC specification)
- Read the "Matters needing attention" of the product instruction before use

Type and Specification

Dimension			51*76*73		
Detection method			Diffuse type	Though beam type	
Type	Relay output	DC illuminate	GKF-2	GDK-5	GDK-50
		AC illuminate	GKF-2	GDK-5	GDK-50
		DC non-illuminate			
		AC non-illuminate			
Detection range			50cm±10%	5m±10%	50cm±10%
Detection target			Transparent/Op aque object	Opaque object	Opaque object
Detection range regulation			Sensitivity adjuster	Fixed	Fixed
Response time			30ms	30ms	30ms



Characteristic Parameters

Connection delay	1.5ms
Light Source	Infrared light 660nm
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below ; Ac type: AC110-220V (90-250V) 50/60Hz
Consumption current	N.P type:20mA below; A type:1.7mA below
Control output	N.P type:300mA below; A type: 400mA below ; J type:2A below(contact service life: 0.1 million times)
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection; A type: surge absorption
Ambient temperature & humidity	During operation,storage: individually-30 ~ +65℃(no freeze,no drew), During operation,storage: Individually35~95%RH
Insulation impedance	50 MΩ above (DC500 Meg-ohmmeter) between charging part and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging part and housing
Temperature influence	Temperature range -30 ~ +65℃,at +23℃,±15% detection distance ; temperature range-25 ~ +60℃,at+23℃,±10% detection distance
Voltage influence	Inside ±15% rated supply voltage range, at rated supply voltage value; inside ±10% detection distance
Protection structure	IP65 (IEC specification)
Material	Housing: Aluminum die-casting (ABS) ; Detection surface (lens) : PMMA

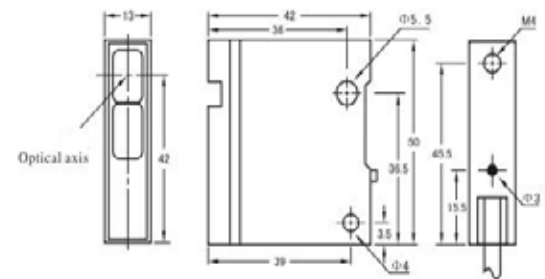
E3K Photoelectric Proximity Sensor Switch

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- Countermeasure to improve the housing intensity and to solve disconnection
- IP65 protection structure(IEC specification)
- Read the "Matters needing attention" of the product instruction before use

Type and Specification

Dimension				13*43.5*50		
Detection method				Diffuse type	Feedback reflection type	Though beam type
Type	DC type	NPN	NO	E3K50-DS30N1	E3K50-R2N1	E3K50-5DN1-5L
			NC	E3K50-DS30N1	E3K50-R2N1	E3K50-5DN1-5L
		PNP	NO	E3K50-DS30P2	E3K50-R2P2	E3K50-5DP2-5L
			NC	E3K50-DS30P2	E3K50-R2P2	E3K50-5DP2-5L
Detection range				30cm±10%	2m±10%	5m±10%
Detection target				Transparent/Opaque object	Opaque object	Opaque object
Detection range regulation				Sensitivity adjuster	Sensitivity adjuster	Fixed
Response time				1ms	1ms	1ms



Characteristic Parameters

Connection delay	1.5ms
Light Source	Infrared light 660nm
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below ; Ac type: AC110-220V (90-250V) 50/60Hz
Consumption current	N.P type:20mA below; A type:1.7mA below
Control output	N.P type:300mA below; A type: 400mA below ; J type:2A below(contact service life: 0.1 million times)
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection; A type: surge absorption
Ambient temperature & humidity	During operation,storage: individually-30 ~ +65℃(no freeze,no drew), During operation,storage: Individually35~95%RH
Insulation impedance	50 MΩ above (DC500 Meg-ohmmeter) between charging part and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging part and housing
Temperature influence	Temperature range -30 ~ +65℃,at +23℃,±15% detection distance ; temperature range-25 ~ +60℃,at+23℃,±10% detection distance
Voltage influence	Inside ±15% rated supply voltage range, at rated supply voltage value; inside ±10% detection distance
Protection structure	IP65 (IEC specification)
Material	Housing: Aluminum die-casting (ABS) ; Detection surface (lens) : PMMA

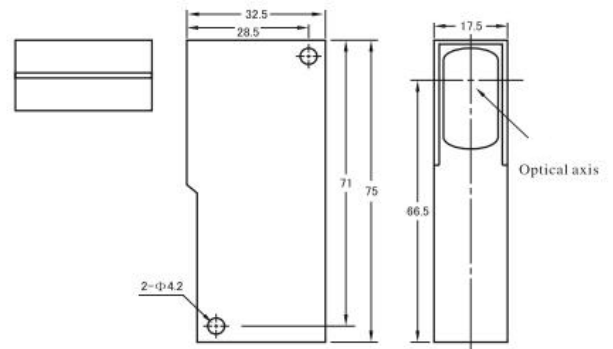
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Type and Specification

Dimension				17.5*32.5*75		
Detection method				Diffuse type	Feedback reflection type	Though beam type
Type	DC type	NPN	NO	E3K75-DS30N1	E3K75-R2N1	E3K75-SDN1-5L
			NC	E3K75-DS30N1	E3K75-R2N1	E3K75-SDN1-5L
		PNP	NO	E3K75-DS30P2	E3K75-R2P2	E3K75-SDP2-5L
			NC	E3K75-DS30P2	E3K75-R2P2	E3K75-SDP2-5L
Detection range				30cm±10%	2m±10%	5m±10%
Detection target				Transparent/Opaque object	Opaque object	Opaque object
Detection range regulation				Sensitivity adjuster	Sensitivity adjuster	Fixed
Response time				1ms	1ms	1ms



Characteristic Parameters

Connection delay	1.5ms
Light Source	Infrared light 660nm
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below ; Ac type: AC110-220V (90-250V) 50/60Hz
Consumption current	N.P type:20mA below; A type:1.7mA below
Control output	N.P type:300mA below; A type: 400mA below ; J type:2A below(contact service life: 0.1 million times)
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection; A type: surge absorption
Ambient temperature & humidity	During operation,storage: individually-30 ~ +65℃(no freeze,no drew), During operation,storage: Individually35~95%RH
Insulation impedance	50 MΩ above (DC500 Meg-ohmmeter) between charging part and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging part and housing
Temperature influence	Temperature range -30 ~ +65℃,at +23℃,±15% detection distance ; temperature range-25 ~ +60℃,at+23℃,±10% detection distance
Voltage influence	Inside ±15% rated supply voltage range, at rated supply voltage value; inside ±10% detection distance
Protection structure	IP65 (IEC specification)
Material	Housing: Aluminum die-casting (ABS) ; Detection surface (lens) : PMMA

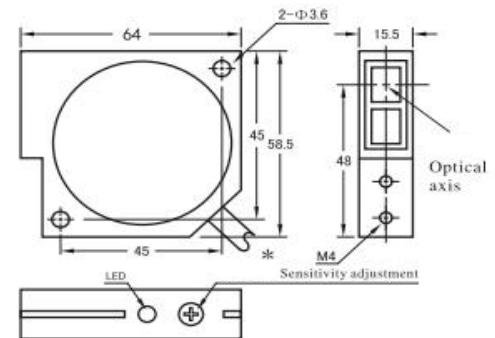
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Type and Specification

Dimension				15.5*58.5*64		
Detection method				Diffuse type	Feedback reflection type	Though beam type
Type	DC type	NPN	NO	E3K64-DS30N1	E3K64-R2N1	E3K64-5DN1-5L
			NC	E3K64-DS30N1	E3K64-R2N1	E3K64-5DN1-5L
		PNP	NO	E3K64-DS30P2	E3K64-R2P2	E3K64-5DP2-5L
			NC	E3K64-DS30P2	E3K64-R2P2	E3K64-5DP2-5L
Detection range				30cm±10%	2m±10%	5m±10%
Detection target				Transparent/Opaque object	Opaque object	Opaque object
Detection range regulation				Sensitivity adjuster	Sensitivity adjuster	Fixed
Response time				1ms	1ms	1ms



Characteristic Parameters

Connection delay	1.5ms
Light Source	Infrared light 660nm
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below ; Ac type: AC110-220V (90-250V) 50/60Hz
Consumption current	N.P type:20mA below; A type:1.7mA below
Control output	N.P type:300mA below; A type: 400mA below ; J type:2A below(contact service life: 0.1 million times)
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection; A type: surge absorption
Ambient temperature & humidity	During operation,storage: individually-30 ~ +65℃(no freeze,no drew), During operation,storage: Individually35~95%RH
Insulation impedance	50 MΩ above (DC500 Meg-ohmmeter) between charging part and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging part and housing
Temperature influence	Temperature range -30 ~ +65℃,at +23℃,±15% detection distance ; temperature range-25 ~ +60℃,at+23℃,±10% detection distance
Voltage influence	Inside ±15% rated supply voltage range, at rated supply voltage value; inside ±10% detection distance
Protection structure	IP65 (IEC specification)
Material	Housing: Aluminum die-casting (ABS) ; Detection surface (lens) : PMMA

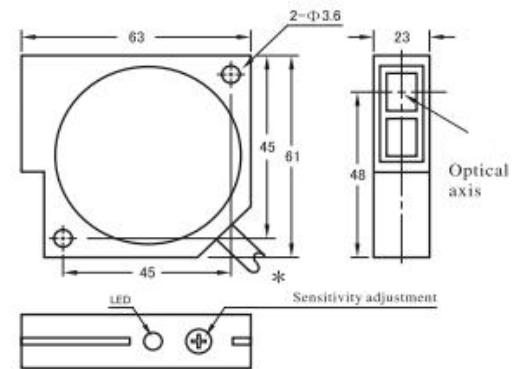
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Type and Specification

Dimension				23*61*63		
Detection method				Diffuse type	Feedback reflection type	Though beam type
Type	DC	NPN	NO	E3K63-DS50N1	E3K63-R2N1	E3K63-5DN1-5L
			NC	E3K63-DS50N1	E3K63-R2N1	E3K63-5DN1-5L
	type	PNP	NO	E3K63-DS50P2	E3K63-R2P2	E3K63-5DP2-5L
			NC	E3K63-DS50P2	E3K63-R2P2	E3K63-5DP2-5L
Detection range				50cm±10%	2m±10%	5m±10%
Detection target				Transparent/ Opaque object	Opaque object	Opaque object
Detection range regulation				Sensitivity adjuster	Sensitivity adjuster	Fixed
Response time				1ms	1ms	1ms



Characteristic Parameters

Connection delay	1.5ms
Light Source	Infrared light 660nm
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below ; Ac type: AC110-220V (90-250V) 50/60Hz
Consumption current	N.P type:20mA below; A type:1.7mA below
Control output	N.P type:300mA below; A type: 400mA below ; J type:2A below(contact service life: 0.1 million times)
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection; A type: surge absorption
Ambient temperature & humidity	During operation,storage: individually-30 ~ +65℃(no freeze,no drew), During operation,storage: Individually35~95%RH
Insulation impedance	50 MΩ above (DC500 Meg-ohmmeter) between charging part and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging part and housing
Temperature influence	Temperature range -30 ~ +65℃,at +23℃,±15% detection distance ; temperature range-25 ~ +60℃,at+23℃,±10% detection distance
Voltage influence	Inside ±15% rated supply voltage range, at rated supply voltage value; inside ±10% detection distance
Protection structure	IP65 (IEC specification)
Material	Housing: Aluminum die-casting (ABS) ; Detection surface (lens) : PMMA

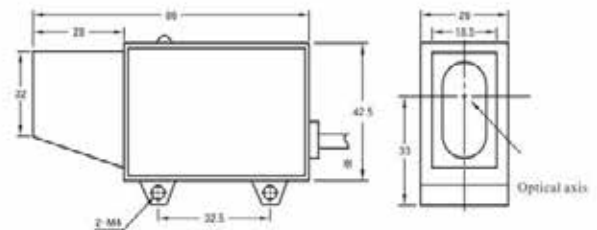
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Type and Specification

Dimension				26*45.5*86		
Detection method				Diffuse type	Feedback reflection type	Though beam type
Type	DC type	NPN	NO	E3K86-DS30N1	E3K86-R2N1	E3K86-5DN1-5L
			NC	E3K86-DS30N1	E3K86-R2N1	E3K86-5DN1-5L
		PNP	NO	E3K86-DS30P2	E3K86-R2P2	E3K86-5DP2-5L
			NC	E3K86-DS30P2	E3K86-R2P2	E3K86-5DP2-5L
Detection range				30cm±10%	2m±10%	5m±10%
Detection target				Transparent/ Opaque object	Opaque object	Opaque object
Detection range regulation				Sensitivity adjuster	Sensitivity adjuster	Fixed
Response time				1ms	1ms	1ms



Characteristic Parameters

Connection delay	1.5ms
Light Source	Infrared light 660nm
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below ; Ac type: AC110-220V (90-250V) 50/60Hz
Consumption current	N.P type:20mA below; A type:1.7mA below
Control output	N.P type:300mA below; A type: 400mA below ; J type:2A below(contact service life: 0.1 million times)
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection; A type: surge absorption
Ambient temperature & humidity	During operation,storage: individually-30 ~ +65℃(no freeze,no drew), During operation,storage: Individually35~95%RH
Insulation impedance	50 MΩ above (DC500 Meg-ohmmeter) between charging part and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging part and housing
Temperature influence	Temperature range -30 ~ +65℃,at +23℃,±15% detection distance ; temperature range-25 ~ +60℃,at+23℃,±10% detection distance
Voltage influence	Inside ±15% rated supply voltage range, at rated supply voltage value; inside ±10% detection distance
Protection structure	IP65 (IEC specification)
Material	Housing: Aluminum die-casting (ABS) ; Detection surface (lens) : PMMA

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- Read the "Matters needing attention" of the product instruction before use

Type and Specification

Dimension				15.5*21*41		
Detection method				Diffuse type	Feedback reflection type	Though beam type
Type	DC type	NPN	NO	E3S-DS10E4	E3S-R1E4	E3S-2DE4-2L
			NC	E3S-DS10E2	E3S-R1E2	E3S-2DE2-2L
			NO+NC			
		PNP	NO	E3S-DS10F4	E3S-R1F4	E3S-2DF4-2L
			NC	E3S-DS10F2	E3S-R1F2	E3S-2DF2-2L
			NO+NC			
	AC Type	Two- wire	NO			
			NC			
		Three-wire NO				
		Relay output				
Detection range				10cm±10%	1m±10%	2m±10%
Detection target				Transparent/Opaque object	Opaque object	Opaque object
Detection range regulation				Sensitivity adjuster	Fixed	Fixed
Response time				1ms	1ms	1ms
Illustration				Chart 1		

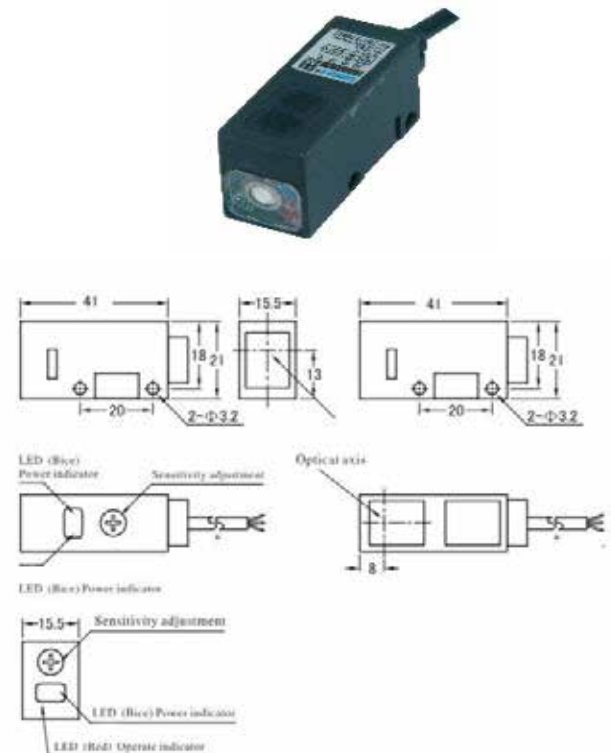


Chart 1

Characteristic Parameters

Connection delay	1.5ms
Light Source	Infrared light 660nm
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below ; Ac type: AC110-220V (90-250V) 50/60Hz
Consumption current	N.P type:20mA below; A type:1.7mA below
Control output	N.P type:300mA below; A type: 400mA below ; J type:2A below(contact service life: 0.1 million times)
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection; A type: surge absorption
Ambient temperature & humidity	During operation,storage: individually-30 ~ +65℃(no freeze,no drew), During operation,storage: Individually35~95%RH
Insulation impedance	50 MΩ above (DC500 Meg-ohmmeter) between charging part and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging part and housing
Temperature influence	Temperature range -30 ~ +65℃,at +23℃,±15% detection distance ; temperature range-25 ~ +60℃,at+23℃,±10% detection distance
Voltage influence	Inside ±15% rated supply voltage range, at rated supply voltage value; inside ±10% detection distance
Protection structure	IP65 (IEC specification)
Material	Housing: Aluminum die-casting (ABS) ; Detection surface (lens) : PMMA

E3S Photoelectric Proximity Sensor Switch

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- IP65 protection structure(IEC specification)
- Read the "Matters needing attention" of the product instruction before use

Type and Specification

Dimension				20*20*64		
Detection method				Diffuse type	Feedback reflection type	Though beam type
Type	DC type	NPN	NO	E3S-DS30N1	E3S-R2N1	E3S-5DN1-5L
			NC	E3S-DS30N2	E3S-R2N2	E3S-5DN2-5L
			NO+NC	E3S-DS30N3	E3S-R2N3	E3S-5DN3-5L
		PNP	NO	E3S-DS30P1	E3S-R2P1	E3S-5DP1-5L
			NC	E3S-DS30P2	E3S-R2P2	E3S-5DP2-5L
			NO+NC	E3S-DS30P3	E3S-R2P3	E3S-5DP3-5L
	AC Type	Two- wire	NO	E3S-DS30A1	E3S-R2A1	E3S-5A1
			NC	E3S-DS30A2	E3S-R2A2	E3S-5A2
		Three-wire NO				
		Relay output				
Detection range				30cm±10%	2m±10%	5m±10%
Detection target				Transparent/Opaque object	Opaque object	Opaque object
Detection range regulation				Sensitivity adjuster	Fixed	Fixed
Response time				DC:1ms AC:30ms	DC:1ms AC:30ms	DC:1ms AC:30ms
Illustration				Chart 1		

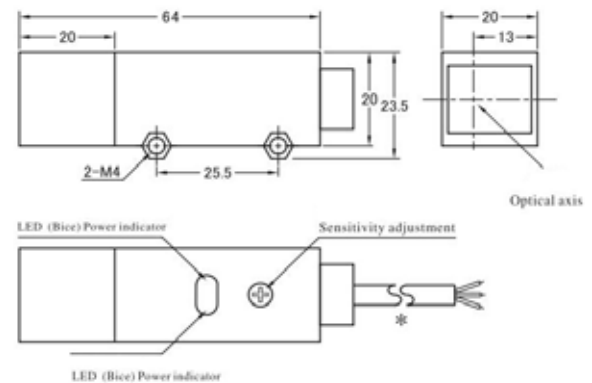


Chart 1

Characteristic Parameters

Connection delay	1.5ms
Light Source	Infrared light 660nm
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below ; Ac type: AC110-220V (90-250V) 50/60Hz
Consumption current	N.P type:20mA below; A type:1.7mA below
Control output	N.P type:300mA below; A type: 400mA below ; J type:2A below(contact service life: 0.1 million times)
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection; A type: surge absorption
Ambient temperature & humidity	During operation,storage: individually-30 ~ +65℃(no freeze,no drew), During operation,storage: Individually35~95%RH
Insulation impedance	50 MΩ above (DC500 Meg-ohmmeter) between charging part and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging part and housing
Temperature influence	Temperature range -30 ~ +65℃,at +23℃,±15% detection distance ; temperature range-25 ~ +60℃,at+23℃,±10% detection distance
Voltage influence	Inside ±15% rated supply voltage range, at rated supply voltage value; inside ±10% detection distance
Protection structure	IP65 (IEC specification)
Material	Housing: Aluminum die-casting (ABS) ; Detection surface (lens) : PMMA

E3K Photoelectric Proximity Sensor Switch

Square model can with various domestic same species directly replaced

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- Countermeasure to improve the housing intensity and to solve disconnection
- IP65 protection structure(IEC specification)
- Read the "Matters needing attention" of the product instruction before use

Type and Specification

Dimension				12*26*55		
Detection method				Diffuse type	Feedback reflection type	Though beam type type
Type	DC type	NPN	NO	E3K55-DS30N1	E3K55-R2N1	E3K55-SDN1-5L
			NC	E3K55-DS30N2	E3K55-R2N2	E3K55-SDN2-5L
			NO+NC			
		PNP	NO	E3K55-DS30P1	E3K55-R2P1	E3K55-SDP1-5L
			NC	E3K55-DS30P2	E3K55-R2P2	E3K55-SDP2-5L
			NO+NC			
	AC Type	Two-wire	NO	E3K55-DS30A1	E3K55-R2A1	E3K55-5A1
			NC	E3K55-DS30A2	E3K55-R2A2	E3K55-5A2
		Three-wire NO				
		Relay output				
Detection range				30cm±10%	2m±10%	5m±10%
Detection target				Transparent/Opaque object	Opaque object	Opaque object
Detection range regulation				Fixed	Fixed	Fixed
Response time				DC:1ms AC:30ms	DC:1ms AC:30ms	DC:1ms AC:30ms
Illustration				Chart 1		

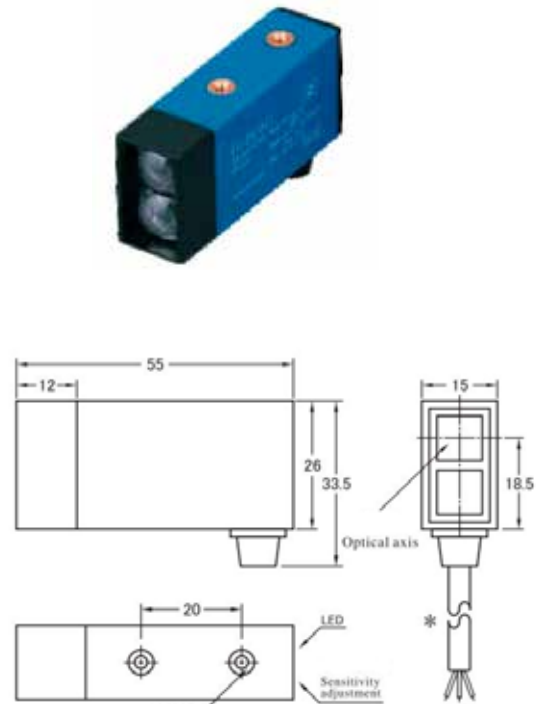


Chart 1

Characteristic Parameters

Connection delay	1.5ms
Light Source	Infrared light 660nm
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below ; Ac type: AC110-220V (90-250V) 50/60Hz
Consumption current	N.P type:20mA below; A type:1.7mA below
Control output	N.P type:300mA below; A type: 400mA below ; J type:2A below(contact service life: 0.1 million times)
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection; A type: surge absorption
Ambient temperature & humidity	During operation,storage: individually-30 ~ +65℃(no freeze,no drew), During operation,storage: Individually35~95%RH
Insulation impedance	50 MΩ above (DC500 Meg-ohmmeter) between charging part and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging part and housing
Temperature influence	Temperature range -30 ~ +65℃,at +23℃,±15% detection distance ; temperature range-25 ~ +60℃,at+23℃,±10% detection distance
Voltage influence	Inside ±15% rated supply voltage range, at rated supply voltage value; inside ±10% detection distance
Protection structure	IP65 (IEC specification)
Material	Housing: Aluminum die-casting (ABS) ; Detection surface (lens) : PMMA

E3K Photoelectric Proximity Sensor Switch

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- Countermeasure to improve the housing intensity and to solve disconnection
- IP65 protection structure(IEC specification)
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Type and Specification

Dimension				18*37*70		
Detection method				Diffuse type	Feedback reflection type	Though beam type type
Type	DC type	NPN	NO	E3K70-DS50N1	E3K70-R2N1	E3K70-5DN1-SL
			NC	E3K70-DS30N2	E3K70-R2N2	E3K70-5DN2-SL
			NO+NC			
		PNP	NO	E3K70-DS50P1	E3K70-R2P1	E3K70-5DP1-SL
			NC	E3K70-DS50P2	E3K70-R2P2	E3K70-5DP2-SL
			NO+NC			
	AC type	Two- wire	NO	E3K70-DS50A1	E3K70-R2A1	E3K70-5A1
			NC	E3K70-DS50A2	E3K70-R2A2	E3K70-5A2
		Three-wire NO				
		Relay output				
Detection range			50cm±10%	2m±10%	5m±10%	
Detection target			Transparent/Opaque object	Opaque object	Opaque object	
Detection range regulation			Sensitivity adjuster	Fixed	Fixed	
Response time			DC:1ms AC:30ms	DC:1ms AC:30ms	DC:1ms AC:30ms	
Illustration			Chart 1			

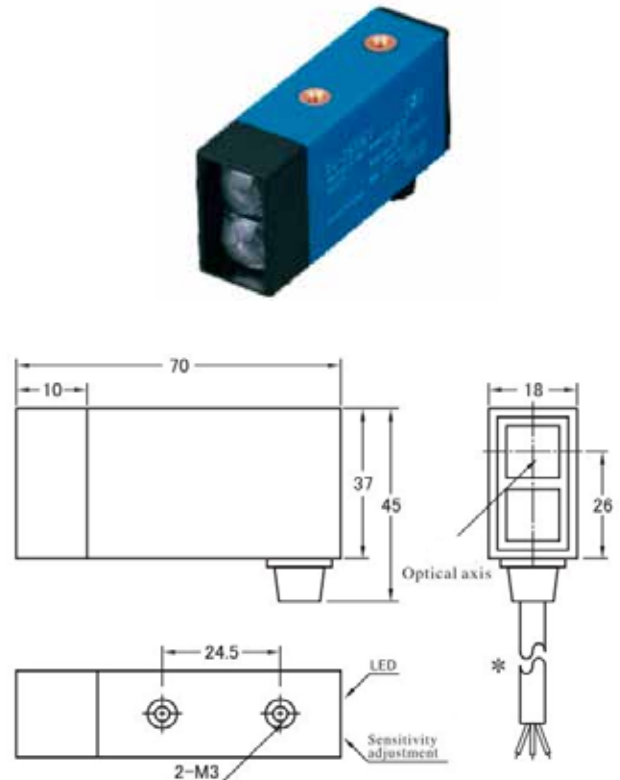


Chart 1

Characteristic Parameters

Connection delay	1.5ms
Light Source	Infrared light 660nm
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below ; Ac type: AC110-220V (90-250V) 50/60Hz
Consumption current	N.P type:20mA below ; A type:1.7mA below
Control output	N.P type:300mA below; A type: 400mA below ; J type:2A below(contact service life: 0.1 million times)
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection; A type: surge absorption
Ambient temperature & humidity	During operation,storage: individually-30 ~ +65℃(no freeze,no dew), During operation,storage: Individually35~95%RH
Insulation impedance	50 MΩ above (DC500 Meg-ohmmeter) between charging part and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging part and housing
Temperature influence	Temperature range -30 ~ +65℃,at +23℃,±15% detection distance ; temperature range-25 ~ +60℃,at+23℃,±10% detection distance
Voltage influence	Inside ±15% rated supply voltage range, at rated supply voltage value; inside ±10% detection distance
Protection structure	IP65 (IEC specification)
Material	Housing: Aluminum die-casting (ABS) ; Detection surface (lens) : PMMA

E3K Photoelectric Proximity Sensor Switch

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- Countermeasure to improve the housing intensity and to solve disconnection
- IP65 protection structure(IEC specification)
- Read the "Matters needing attention" of the product instruction before use

Type and Specification

Dimension				12*25*30		
Detection method				Diffuse type	Feedback reflection type	Though beam type type
Type	DC type	NPN	NO	E3K30-DS10N1	E3K30-R2N1	E3K30-3DN1-3L
			NC	E3K30-DS10N2	E3K30-R2N2	E3K30-3DN2-3L
			NO+NC			
		PNP	NO	E3K30-DS10P1	E3K30-R2P1	E3K30-3DP1-3L
			NC	E3K30-DS10P2	E3K30-R2P2	E3K30-3DP2-3L
			NO+NC			
	AC type	Two- wire	NO			
			NC			
		Three-wire NO				
		Relay output				
Detection range				10cm±10%	2m±10%	3m±10%
Detection target				Transparent/Opaque object	Opaque object	Opaque object
Detection range regulation				Fixed	Fixed	Fixed
Response time				1ms	1ms	1ms
Illustration				Chart 1		

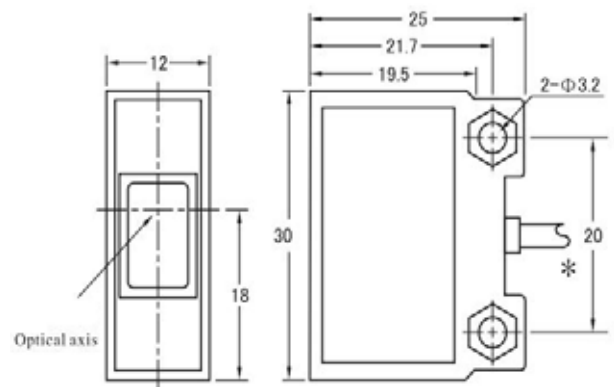


Chart 1

Characteristic Parameters

Connection delay	1.5ms
Light Source	Infrared light 660nm
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below ; Ac type: AC110-220V (90-250V) 50/60Hz
Consumption current	N.P type:20mA below; A type:1.7mA below
Control output	N.P type:300mA below; A type: 400mA below ; J type:2A below(contact service life: 0.1 million times)
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection; A type: surge absorption
Ambient temperature & humidity	During operation,storage: individually-30 ~ +65℃(no freeze,no dew), During operation,storage: Individually35~95%RH
Insulation impedance	50 MΩ above (DC500 Meg-ohmmeter) between charging part and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging part and housing
Temperature influence	Temperature range -30 ~ +65℃,at +23℃,±15% detection distance ; temperature range-25 ~ +60℃,at+23℃,±10% detection distance
Voltage influence	Inside ±15% rated supply voltage range, at rated supply voltage value; inside ±10% detection distance
Protection structure	IP65 (IEC specification)
Material	Housing: Aluminum die-casting (ABS) ; Detection surface (lens) : PMMA

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- Long service life, high reliability and strong resistance property to environment
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- Newly added metal housing to improve the installation intensity
- Countermeasure to improve the housing intensity and to solve disconnection
- IP65 protection structure(IEC specification)
- Read the "Matters needing attention" of the product instruction before use

Type and Specification

Dimension				16*28*51		
Detection method				Diffuse type	Feedback reflection type	Though beam type type
Type	DC type	NPN	NO	E3K51-DS30N1	E3K51-R2N1	E3K51-SDN1-5L
			NC	E3K51-DS30N2	E3K51-R2N2	E3K51-SDN2-5L
			NO+NC			
		PNP	NO	E3K51-DS30P1	E3K51-R2P1	E3K51-SDP1-5L
			NC	E3K51-DS30P2	E3K51-R2P2	E3K51-SDP2-5L
			NO+NC			
	AC type	Two- wire	NO	E3K51-DS30A1	E3K51-R2A1	E3K51-5DA1
			NC	E3K51-DS30A2	E3K51-R2A2	E3K51-5DA2
		Three-wire NO				
		Relay output				
Detection range				30cm±10%	2m±10%	5m±10%
Detection target				Transparent/Opaque object	Opaque object	Opaque object
Detection range regulation				Sensitivity adjuster	Fixed	Fixed
Response time				DC:1ms AC:30ms	DC:1ms AC:30ms	DC:1ms AC:30ms
Illustration				Chart 1		

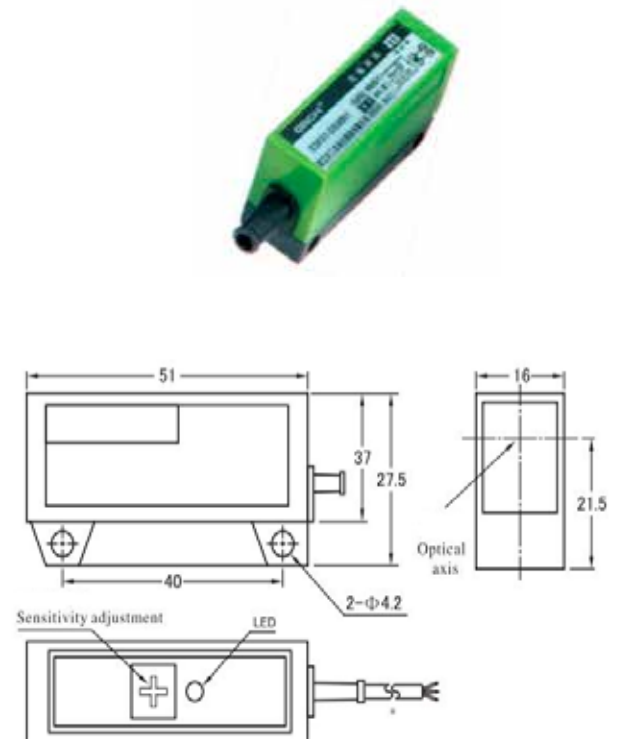


Chart 1

Characteristic Parameters

Connection delay	1.5ms
Light Source	Infrared light 660nm
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below ; Ac type: AC110-220V (90-250V) 50/60Hz
Consumption current	N.P type:20mA below; A type:1.7mA below
Control output	N.P type:300mA below; A type: 400mA below ; J type:2A below(contact service life: 0.1 million times)
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection; A type: surge absorption
Ambient temperature & humidity	During operation,storage: individually-30 ~ +65℃(no freeze,no drew), During operation,storage: Individually35~95%RH
Insulation impedance	50 MΩ above (DC500 Meg-ohmmeter) between charging part and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging part and housing
Temperature influence	Temperature range -30 ~ +65℃,at +23℃,±15% detection distance ; temperature range-25 ~ +60℃,at+23℃,±10% detection distance
Voltage influence	Inside ±15% rated supply voltage range, at rated supply voltage value; inside ±10% detection distance
Protection structure	IP65 (IEC specification)
Material	Housing: Aluminum die-casting (ABS) ; Detection surface (lens) : PMMA

E3S Photoelectric Proximity Sensor Switch

Square model can with various domestic same species directly replaced

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- Long service life, high reliability and strong resistance property to environment
- Red LED indicates that it's available to detect the sensor operating state
- Newly added metal housing to improve the installation intensity
- Countermeasure to improve the housing intensity and to solve disconnection
- IP66 protection structure(IEC specification)
- Read the "Matters needing attention" of the product instruction before use

Type and Specification

Dimension				16*25*55	25.5*45.5*75
Detection method				Slot type	Slot type
Type	DC type	NPN	NO	E3S-GS7N	E3S-GS10N
			NC	E3S-GS7N2	E3S-GS10N2
			NO+NC		
		PNP	NO	E3S-GS7P	E3S-GS10P
			NC	E3S-GS7P2	E3S-GS10P2
			NO+NC		
Detection range			7mm	10mm	
Detection target			Opaque object	Opaque object	
Detection range regulation			Sensitivity adjuster	Sensitivity adjuster	
Response time			1ms	1ms	
Illustration			Chart 1	Chart 2	

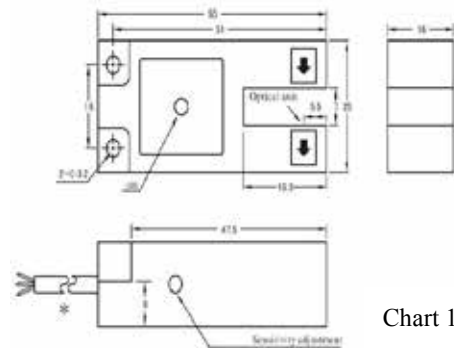


Chart 1

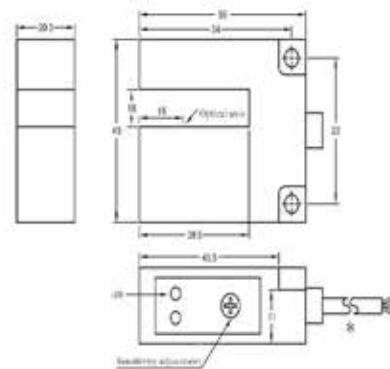


Chart 2

Characteristic Parameters

Connection delay	1.5ms
Light Source	Infrared light 660nm
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below ; Ac type: AC110-220V (90-250V) 50/60Hz
Consumption current	N.P type:20mA below; A type:1.7mA below
Control output	N.P type:300mA below; A type: 400mA below ; J type:2A below(contact service life: 0.1 million times)
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection; A type: surge absorption
Ambient temperature & humidity	During operation,storage: individually-30 ~ +65℃(no freeze,no drew), During operation,storage: Individually35~95%RH
Insulation impedance	50 MΩ above (DC500 Meg-ohmmeter) between charging part and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging part and housing
Temperature influence	Temperature range -30 ~ +65℃,at +23℃,± 15% detection distance ; temperature range-25 ~ +60℃,at+23℃,± 10% detection distance
Voltage influence	Inside ± 15% rated supply voltage range, at rated supply voltage value; inside ± 10% detection distance
Protection structure	IP65 (IEC specification)
Material	Housing: Aluminum die-casting (ABS) ; Detection surface (lens) : PMMA

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- Newly added metal housing to improve the installation intensity
- Countermeasure to improve the housing intensity and to solve disconnection
- IP66 protection structure(IEC specification)
- Read the "Matters needing attention" of the product instruction before use

Type and Specification

Dimension				16*35.5*40.5	20*52*72	20*52*72
Detection method				Slot type	Slot type	Slot type
Type	DC type	NPN	NO	E3S-GS15N	E3S-GS30E4	E3S-GS50E4
			NC	E3S-GS15N2	E3S-GS30E2	E3S-GS50E2
			NO+NC		E3S-GS30E42	E3S-GS50E42
		PNP	NO	E3S-GS15P	E3S-GS30F4	E3S-GS50F4
			NC	E3S-GS15P2	E3S-GS30F2	E3S-GS50F2
			NO+NC		E3S-GS30F42	E3S-GS50F42
Detection range			15mm	30mm	50mm	
Detection target			Opaque object	Opaque object	Opaque object	
Detection range regulation			Sensitivity adjuster	Sensitivity adjuster	Sensitivity adjuster	
Response time			1ms	1ms	1ms	
Illustration			Chart 1	Chart 2	Chart 3	

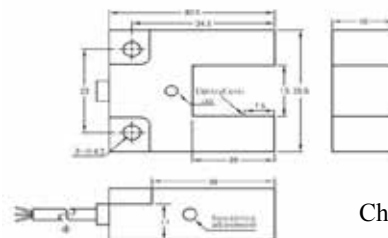


Chart 1

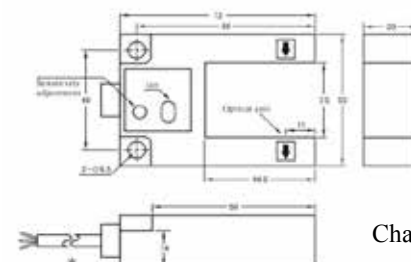


Chart 2

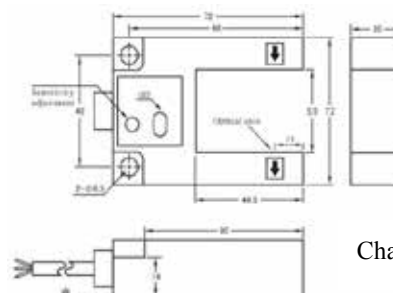


Chart 3



Characteristic Parameters

Connection delay	1.5ms
Light Source	Infrared light 660nm
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below ; Ac type: AC110-220V (90-250V) 50/60Hz
Consumption current	N.P type:20mA below; A type:1.7mA below
Control output	N.P type:300mA below; A type: 400mA below ; J type:2A below(contact service life: 0.1 million times)
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection; A type: surge absorption
Ambient temperature & humidity	During operation,storage: individually-30 ~ +65℃(no freeze,no drew), During operation,storage: Individually35~95%RH
Insulation impedance	50 MΩ above (DC500 Meg-ohmmeter) between charging part and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging part and housing
Temperature influence	Temperature range -30 ~ +65℃,at +23℃,±15% detection distance ; temperature range-25 ~ +60℃,at+23℃,±10% detection distance
Voltage influence	Inside ±15% rated supply voltage range, at rated supply voltage value; inside ±10% detection distance
Protection structure	IP65 (IEC specification)
Material	Housing: Aluminum die-casting (ABS) ; Detection surface (lens) : PMMA

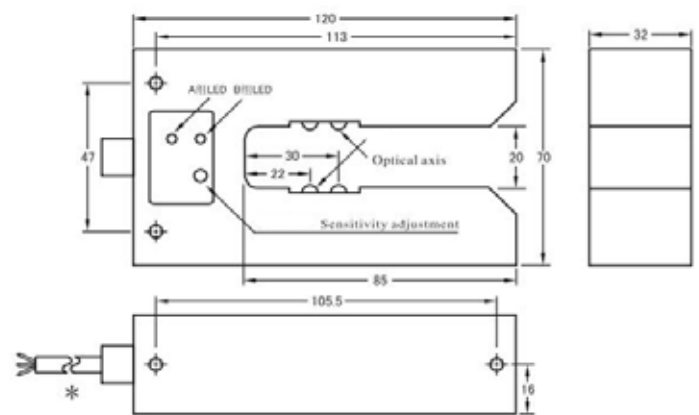
HF-HJ03 Photoelectric Proximity Sensor Switch

Square model can with various domestic same species directly replaced

- Power supply reversal connection protection; short-circuit protection, can directly connect with PLC
- Long service life, high reliability and strong resistance property to environment
- Red LED indicates that it's available to detect the sensor operating state
- Newly added metal housing to improve the installation intensity
- Countermeasure to improve the housing intensity and to solve disconnection
- IP66 protection structure(IEC specification)
- Read the "Matters needing attention" of the product instruction before use

Type and Specification

Dimension	32*70*120
Detection method	Slot type
Type	AC Type NO+NC HF-HJ03
Supply voltage	AC12-24V±10%
Edge detection control accuracy	<8mm
Photoelectric detection group number	2 groups
output signal	2 groups of independent contactless output AC12-24V
Detection target	Opaque object
Detection range regulation	Sensitivity adjuster
Response time	1-30ms



Characteristic Parameters

Connection delay	1.5ms
Light Source	Infrared light 660nm
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below ; Ac type: AC110-220V (90-250V) 50/60Hz
Consumption current	N.P type:20mA below; A type:1.7mA below
Control output	N.P type:300mA below; A type: 400mA below ; J type:2A below(contact service life: 0.1 million times)
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection; A type: surge absorption
Ambient temperature & humidity	During operation,storage: individually-30 ~ +65℃(no freeze,no drew), During operation,storage: Individually35~95%RH
Insulation impedance	50 MΩ above (DC500 Meg-ohmmeter) between charging part and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging part and housing
Temperature influence	Temperature range -30 ~ +65℃,at +23℃,±15% detection distance ; temperature range-25 ~ +60℃,at+23℃,±10% detection distance
Voltage influence	Inside ±15% rated supply voltage range, at rated supply voltage value; inside ±10% detection distance
Protection structure	IP65 (IEC specification)
Material	Housing: Aluminum die-casting (ABS) ; Detection surface (lens) : PMMA

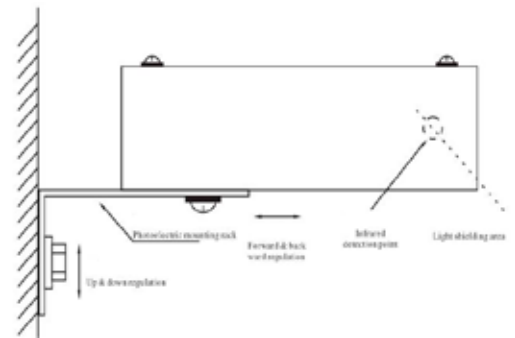
GD-CH050 Photoelectric Proximity Sensor Switch

Square model can with various domestic same species directly replaced

- Power supply reversal connection protection; short-circuit protection, can directly connect with PLC
- Long service life, high reliability and strong resistance property to environment
- Red LED indicates that it's available to detect the sensor operating state
- Newly added metal housing to improve the installation intensity
- Countermeasure to improve the housing intensity and to solve disconnection
- IP66 protection structure(IEC specification)
- Read the "Matters needing attention" of the product instruction before use

Type and Specification

Dimension	30*97*107
Detection method	Slot type
Type	GD-CH050
Work voltage	AC12V
Contact capacity	AC220V DC24V 12A
Number of poles	NO+NC
Ways of work	Translation, bright motion, delayed suction, continuous operation
Detection diameter	≤8mm
Action time	0-8 seconds adjustable
Number of probe set	1group



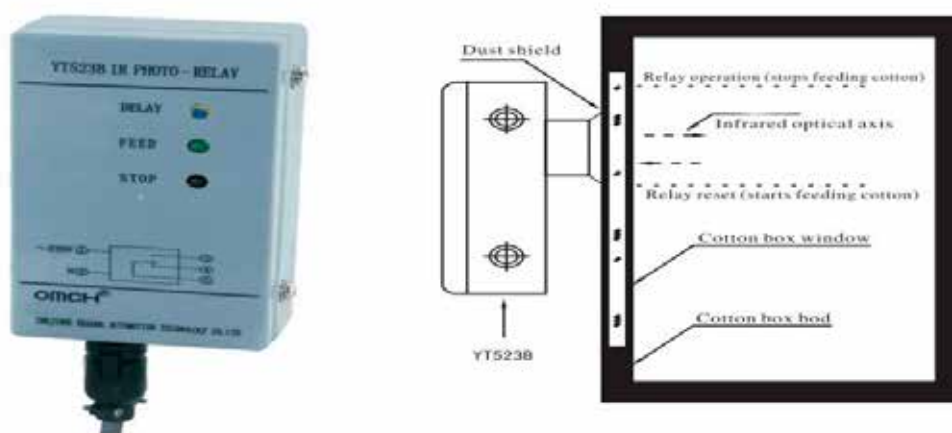
Characteristic Parameters

Connection delay	1.5ms
Light Source	Infrared light 660nm
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below ; Ac type: AC110-220V (90-250V) 50/60Hz
Consumption current	N.P type:20mA below; A type:1.7mA below
Control output	N.P type:300mA below; A type: 400mA below ; J type:2A below(contact service life: 0.1 million times)
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection; A type: surge absorption
Ambient temperature & humidity	During operation,storage: individually-30 ~ +65℃(no freeze,no drew), During operation,storage: Individually35~95%RH
Insulation impedance	50 MΩ above (DC500 Meg-ohmmeter) between charging part and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging part and housing
Temperature influence	Temperature range -30 ~ +65℃,at +23℃,±15% detection distance ; temperature range-25 ~ +60℃,at+23℃,±10% detection distance
Voltage influence	Inside ±15% rated supply voltage range, at rated supply voltage value; inside ±10% detection distance
Protection structure	IP65 (IEC specification)
Material	Housing: Aluminum die-casting (ABS) ; Detection surface (lens) : PMMA

YT523B infrared electrical relays (pure flower photoelectric switch)

Characteristic Parameters

Operate voltage	AC220V,50/60Hz
Operate method	Reflection, time-delay operation, continuous operation
Output capacity	Contact output AC220V-6A, DC28V-12A
Detection range	Adjustable between 10-18cm, the manufacture's set value is 50cm
Action time	Adjustable between 0.2-10 seconds, the manufacture's set value is 3 seconds
Operate environment	Temperature 0-45℃, humidity≤85%
Background illumination level	Incandescent lamp≤1×1000000LX, sun light≤5×1000000LX

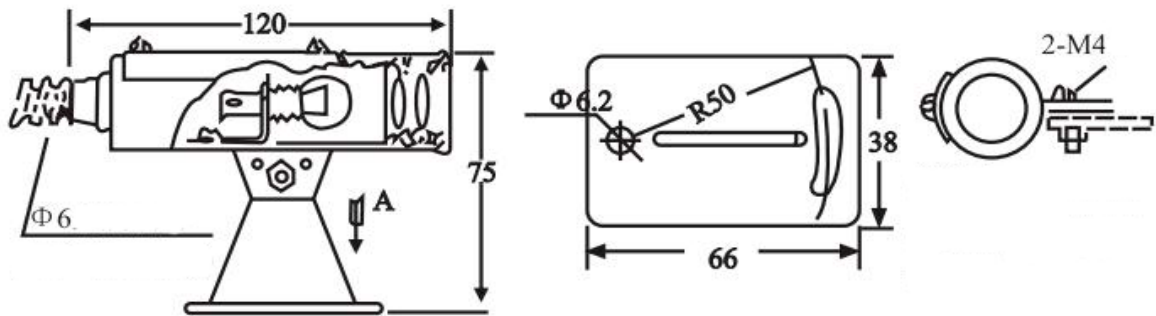


External and Installation Sketch

JQ-5Q photoelectric relays

Work environment

- Supply: AC50Hz, 220V $\pm$ 15%. (380V、110V、36V $\pm$ 15% available, need to be customized.)
- The relay can be operated reliably within 5m of the distance between the light head and the receiving head.
- Transistor amplifier input current < 30uA, relay should not operate, > 40uA relay should be reliable operation.
- The photoelectric relay provides two groups of switch type regular open and close contacts, the contact on and off capability JQX-4 AC220V 3A (resistive).
- Ambient humidity:-10°C~65°C
- Relative air humidity $\leq$ 80°C



YT671A electronic speed switch

Characteristic Parameters

Operate voltage	AV12V
Operate method	Relay contact undertakes switch output when the set value is reached
Output capacity	AC220V-6A、DC28V-12A Contact output AC220V-6A, DC28V-12A
Set range	450-1200 rotations per minute
Power consumption	≤0.3W



External and Installation Sketch



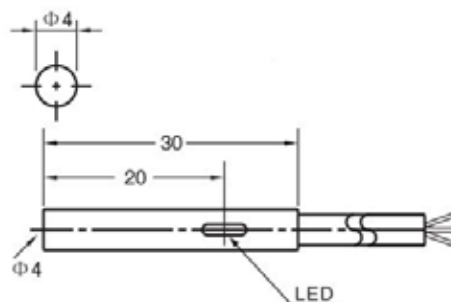
The latest high frequency, strong anti-interference proximity switch series

- Power supply reversal connection protection; short-circuit protection, can directly connect with PLC
- Used in common places with medium environment resistance
- Red LED indicates that it's available to detect the sensor operating state
- P67 protection structure (IEC specification)
- Read the "Matters needing attention" of the Product Instruction before use

● Type and Specification

Dimension				Φ4	
Mounting way				Screen shield type	
TYPE	TYPE	DC	NPN	NO	ALJ4A3-1-Z/N1
				NC	ALJ4A3-1-Z/N2
				NO+NC	
		PNP	NO	ALJ4A3-1-Z/P1	
			NC	ALJ4A3-1-Z/P2	
			NO+NC		
		Two Wire	NO	ALJ4A3-1-Z/D1	
			NC	ALJ4A3-1-Z/D2	
Detection distance				1mm±10%	
Set distance				0~0.7mm	
Standard detection object				iron5×5×1mm	
Response frequency				DC:2kHz AC:50Hz	

● External Dimension (Unit mm)



● Characteristic Parameters

Delay distance:	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type:13mA below D type:0.8mA below A type:1.7mA below
Control output	N.P type:300 mA below D type:200mA below A type:400mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection A type: surge absorption
Ambient temperature humidity	During operation,storage: individually-30~+65(No freeze,no drew), During operation,storage: Individually35~95%RH
Insulation resistance	50 MΩ about(DC500 megameter) between charging and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging and housing
Temperature influence	Temperature range -30~+65℃, at+23℃, ±15%detection distance Temperature range-25~+60℃, at+23℃, ±10%detection distance
Voltage influence	Inside+/-15%rated supply voltage range, at rated supply voltage value; Inside +/-10% detection distance
Protection structure	IP67 ICE specification
material	Housing: Nickel plated brass; Detection surface: ABS

The latest high frequency, strong anti-interference proximity switch series

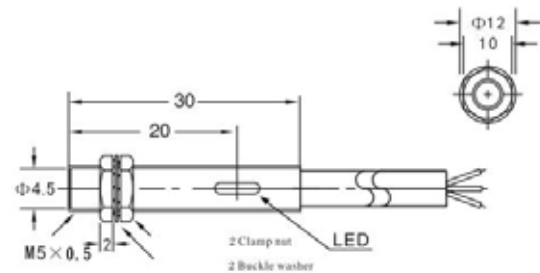
- Power supply reversal connection protection; short-circuit protection, can directly connect with PLC
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- Red LED indicates that it's available to detect the sensor operating state
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● Type and Specification

Dimension				M5	
Mounting way				Screen shield type	
TYPE	TYPE	DC	NPN	NO	ALJ5A3-1-Z/N1
				NC	ALJ5A3-1-Z/N2
				NO+NC	
		PNP	NO	ALJ5A3-1-Z/P1	
			NC	ALJ5A3-1-Z/P2	
			NO+NC		
		Two Wire	NO	ALJ5A3-1-Z/D1	
			NC	ALJ5A3-1-Z/D2	
Detection distance				1mm±10%	
Set distance				0~0.7mm	
Standard detection object				iron5×5×1mm	
Response frequency				DC:2kHz AC:50Hz	

● External Dimension (Unit mm)



● Characteristic Parameters

Delay distance:	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type:13mA below D type:0.8mA below A type:1.7mA below
Control output	N.P type:300 mA below D type:200mA below A type:400mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection A type: surge absorption
Ambient temperature humidity	During operation,storage: individually-30~+65(No freeze,no drew), During operation,storage: Individually35~95%RH
Insulation resistance	50 MΩ about(DC500 megameter) between charging and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging and housing
Temperature influence	Temperature range -30~+65℃, at+23℃, ±15%detection distance Temperature range-25~+60℃, at+23℃, ±10%detection distance
Voltage influence	Inside+/-15%rated supply voltage range, at rated supply voltage value; Inside +/-10% detection distance
Protection structure	IP67 ICE specification
material	Housing: Nickel plated brass; Detection surface: ABS



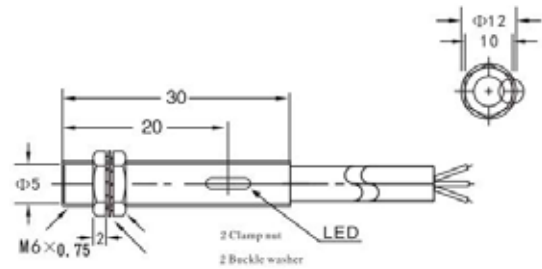
The latest high frequency, strong anti-interference proximity switch series

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- Used in common places with medium environment resistance
- Red LED indicates that it's available to detect the sensor operating state
- P67 protection structure (IEC specification)
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● Type and Specification

Dimension				M6
Mounting way				Screen shield type
TYPE	DC TYPE	NPN	NO	ALJ6A3-1-Z/N1
			NC	ALJ6A3-1-Z/N2
			NO+NC	
		PNP	NO	ALJ6A3-1-Z/P1
			NC	ALJ6A3-1-Z/P2
			NO+NC	
		Two Wire	NO	ALJ6A3-1-Z/D1
			NC	ALJ6A3-1-Z/D2
Detection distance				1.5mm±10%
Set distance				0~1.2mm
Standard detection object				iron5×5×1mm
Response frequency				DC:2kHz AC:50Hz

● External Dimension (Unit mm)



● Characteristic Parameters

Delay distance:	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type:13mA below D type:0.8mA below A type:1.7mA below
Control output	N.P type:300 mA below D type:200mA below A type:400mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection A type: surge absorption
Ambient temperature humidity	During operation,storage: individually-30~+65(No freeze,no drew), During operation,storage: Individually35~95%RH
Insulation resistance	50 MΩ about(DC500 megameter) between charging and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging and housing
Temperature influence	Temperature range -30~+65℃, at+23℃, ±15%detection distance Temperature range-25~+60℃, at+23℃, ±10%detection distance
Voltage influence	Inside+/-15%rated supply voltage range, at rated supply voltage value; Inside +/-10% detection distance
Protection structure	IP67 ICE specification
material	Housing: Nickel plated brass; Detection surface: ABS

The latest high frequency, strong anti-interference proximity switch series

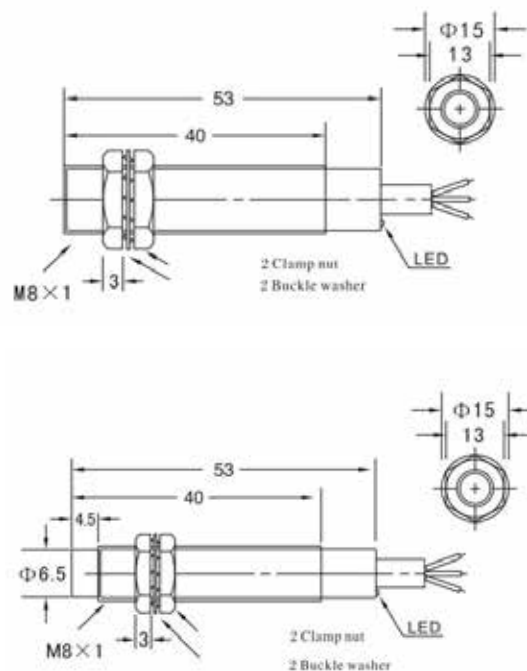


- Power supply reversal connection protection; short-circuit protection, can directly connect with PLC
- Used in common places with medium environment resistance
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- Read the "Matters needing attention" of the Product Instruction before use

• Type and Specification

Dimension				M8	
Mounting way				Screen shield type	Non-Screen shield type
TYPE	TYPE	NPN	NO	ALJ8A3-1-Z/N1	ALJ8A3-2-Z/N1
			NC	ALJ8A3-1-Z/N2	ALJ8A3-2-Z/N2
			NO+NC	ALJ8A3-1-Z/N3	ALJ8A3-2-Z/N3
		PNP	NO	ALJ8A3-1-Z/P1	ALJ8A3-2-Z/P1
			NC	ALJ8A3-1-Z/P2	ALJ8A3-2-Z/P2
			NO+NC	ALJ8A3-1-Z/P3	ALJ8A3-2-Z/P3
		Two Wire	NO	ALJ8A3-1-Z/D1	ALJ8A3-2-Z/D1
			NC	ALJ8A3-1-Z/D2	ALJ8A3-2-Z/D2
		AC	Two Wire	NO	ALJ8A3-1-J/A1
	NC			ALJ8A3-1-J/A2	ALJ8A3-2-J/A2
TYPE	3 wire		NO+NC		
Detection distance				1.5mm±10%	2mm±10%
Set distance				0~1.2mm	0~1.6mm
Standard detection object				iron8×8×1mm	iron12×12×1mm
Response frequency				DC:2kHz AC:50Hz	DC:2kHz AC:50Hz

• External Dimension (Unit mm)



• Characteristic Parameters

Delay distance	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type:13mA below D type:0.8mA below A type:1.7mA below
Control output	N.P type:300 mA below D type:200mA below A type:400mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection A type: surge absorption
Ambient temperature humidity	During operation,storage: individually-30~+65(No freeze,no drew), During operation,storage: Individually35~95%RH
Insulation resistance	50 MΩ about(DC500 megameter) between charging and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging and housing
Temperature influence	Temperature range -30~+65℃, at+23℃, ±15%detection distance Temperature range-25~+60℃, at+23℃, ±10%detection distance
Voltage influence	Inside+/-15%rated supply voltage range, at rated supply voltage value; Inside +/-10% detection distance
Protection structure	IP67 ICE specification
material	Housing: Nickel plated brass; Detection surface: ABS

The latest high frequency, strong anti-interference proximity switch series

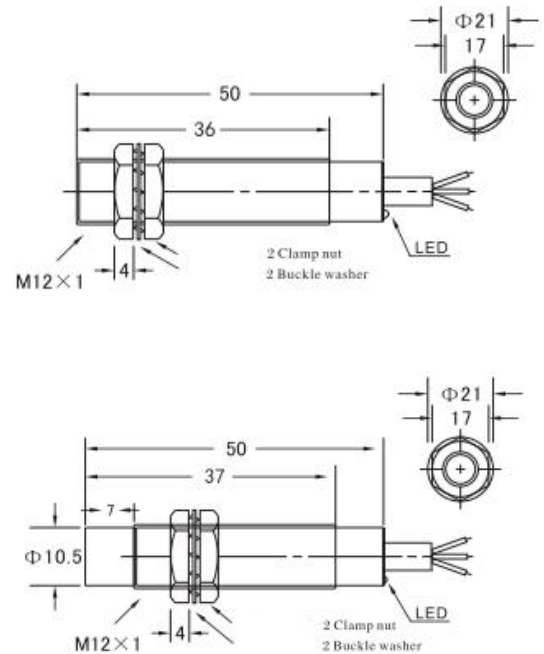


- Power supply reversal connection protection; short-circuit protection, can directly connect with PLC
- Used in common places with medium environment resistance
- Red LED indicates that it's available to detect the sensor operating state
- P67 protection structure (IEC specification)
- Read the "Matters needing attention" of the Product Instruction before use

• Type and Specification

Dimension				M12	
Mounting way				Screen shield type	Non-Screen shield type
TYPE	DC	NPN	NO	ALJ12A3-2-Z/N1	ALJ12A3-4-Z/N1
			NC	ALJ12A3-2-Z/N2	ALJ12A3-4-Z/N2
			NO+NC	ALJ12A3-2-Z/N3	ALJ12A3-4-Z/N3
		PNP	NO	ALJ12A3-2-Z/P1	ALJ12A3-4-Z/P1
			NC	ALJ12A3-2-Z/P2	ALJ12A3-4-Z/P2
			NO+NC	ALJ12A3-2-Z/P3	ALJ12A3-4-Z/P3
		Two Wire	NO	ALJ12A3-2-Z/D1	ALJ12A3-4-Z/D1
			NC	ALJ12A3-2-Z/D2	ALJ12A3-4-Z/D2
	AC	Two Wire	NO	ALJ12A3-2-J/A1	ALJ12A3-4-J/A1
			NC	ALJ12A3-2-J/A2	ALJ12A3-4-J/A2
TYPE	3 wire	NO+NC			
Detection distance				2mm±10%	4mm±10%
Set distance				0~1.6mm	0~3.6mm
Standard detection object				iron12×12×1mm	iron15×15×1mm
Response frequency				DC:1kHz AC:50Hz	DC:1kHz AC:50Hz

• External Dimension (Unit mm)



• Characteristic Parameters

Delay distance	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type:13mA below D type:0.8mA below A type:1.7mA below
Control output	N.P type:300 mA below D type:200mA below A type:400mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection A type: surge absorption
Ambient temperature humidity	During operation,storage: individually-30~+65(No freeze,no drew), During operation,storage: Individually35~95%RH
Insulation resistance	50 MΩ about(DC500 megameter) between charging and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging and housing
Temperature influence	Temperature range -30~+65℃, at+23℃, ±15%detection distance Temperature range-25~+60℃, at+23℃, ±10%detection distance
Voltage influence	Inside+/-15%rated supply voltage range, at rated supply voltage value; Inside +/-10% detection distance
Protection structure	IP67 ICE specification
material	Housing: Nickel plated brass; Detection surface: ABS

The latest high frequency, strong anti-interference proximity switch series

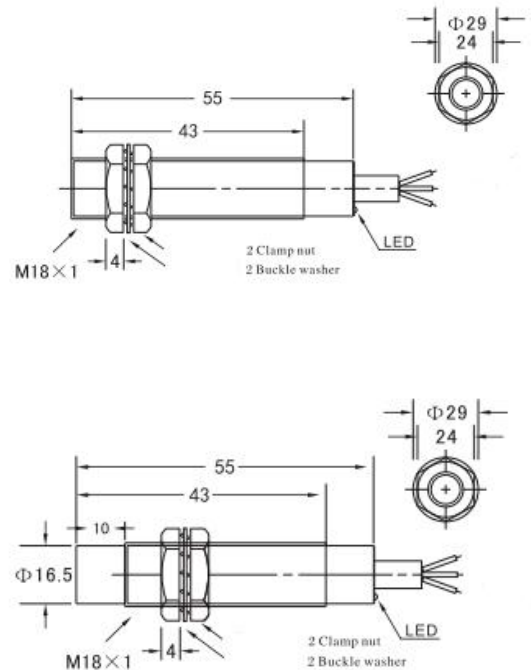


- Power supply reversal connection protection; short-circuit protection, can directly connect with PLC
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• Type and Specification

Dimension				M18	
Mounting way				Screen shield type	Non-Screen shield type
TYPE	DC TYPE	NPN	NO	ALJ18A3-5-Z/N1	ALJ18A3-8-Z/N1
			NC	ALJ18A3-5-Z/N2	ALJ18A3-8-Z/N2
			NO+NC	ALJ18A3-5-Z/N3	ALJ18A3-8-Z/N3
		PNP	NO	ALJ18A3-5-Z/P1	ALJ18A3-8-Z/P1
			NC	ALJ18A3-5-Z/P2	ALJ18A3-8-Z/P2
			NO+NC	ALJ18A3-5-Z/P3	ALJ18A3-8-Z/P3
		Two Wire	NO	ALJ18A3-5-Z/D1	ALJ18A3-8-Z/D1
			NC	ALJ18A3-5-Z/D2	ALJ18A3-8-Z/D2
	AC TYPE	Two Wire	NO	ALJ18A3-5-J/A1	ALJ18A3-8-J/A1
			NC	ALJ18A3-5-J/A2	ALJ18A3-8-J/A2
		3 wire	NO+NC	ALJ18A3-5-J/A3	ALJ18A3-8-J/A3
Detection distance				5mm±10%	8mm±10%
Set distance				0~4mm	0~7mm
Standard detection object				iron18×18×1mm	iron18×18×1mm
Response frequency				DC:0.8kHz AC:50Hz	DC:0.8kHz AC:50Hz

• External Dimension (Unit mm)



• Characteristic Parameters

Delay distance	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type:13mA below D type:0.8mA below A type:1.7mA below
Control output	N.P type:300 mA below D type:200mA below A type:400mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection A type: surge absorption
Ambient temperature humidity	During operation,storage: individually-30~+65(No freeze,no drew), During operation,storage: Individually35~95%RH
Insulation resistance	50 MΩ about(DC500 megameter) between charging and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging and housing
Temperature influence	Temperature range -30~+65℃, at+23℃, ±15%detection distance Temperature range-25~+60℃, at+23℃, ±10%detection distance
Voltage influence	Inside+/-15%rated supply voltage range, at rated supply voltage value; Inside +/-10% detection distance
Protection structure	IP67 ICE specification
material	Housing: Nickel plated brass; Detection surface: ABS

The latest high frequency, strong anti-interference proximity switch series

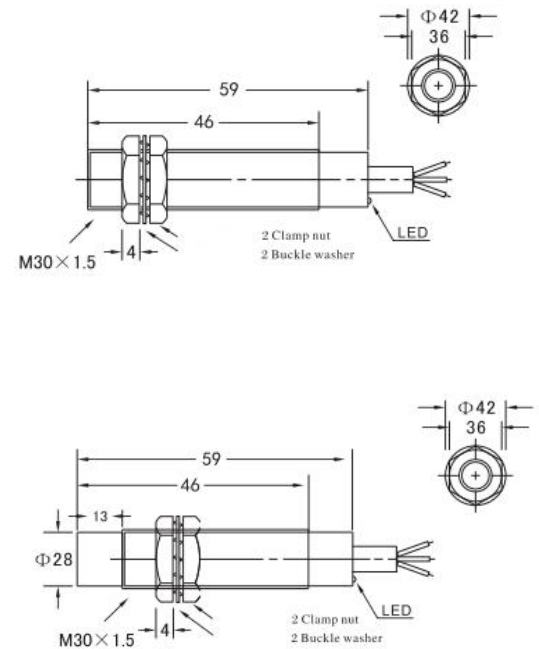


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• Type and Specification

Dimension				M30				
Mounting way				Screen shield type		Non-Screen shield type		
TYPE	TYPE	NPN	NO	ALJ30A3-10-Z/N1		ALJ30A3-15-Z/N1		
			NC	ALJ30A3-10-Z/N2		ALJ30A3-15-Z/N2		
			NO+NC	ALJ30A3-10-Z/N3		ALJ30A3-15-Z/N3		
		PNP	NO	ALJ30A3-10-Z/P1		ALJ30A3-15-Z/P1		
			NC	ALJ30A3-10-Z/P2		ALJ30A3-15-Z/P2		
			NO+NC	ALJ30A3-10-Z/P3		ALJ30A3-15-Z/P3		
		Two Wire	NO	ALJ30A3-10-Z/D1		ALJ30A3-15-Z/D1		
			NC	ALJ30A3-10-Z/D2		ALJ30A3-15-Z/D2		
		AC	Two Wire	NO	ALJ30A3-10-J/A1		ALJ30A3-15-J/A1	
				NC	ALJ30A3-10-J/A2		ALJ30A3-15-J/A2	
			3 wire	NO+NC	ALJ30A3-10-J/A3		ALJ30A3-15-J/A3	
		Detection distance				10mm±10%		15mm±10%
Set distance				0~8mm		0~13mm		
Standard detection object				iron30×30×1mm		iron54×54×1mm		
Response frequency				DC:0.5kHz AC:50Hz		DC:0.5kHz AC:50Hz		

• External Dimension (Unit mm)



• Characteristic Parameters

Delay distance	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type:13mA below D type:0.8mA below A type:1.7mA below
Control output	N.P type:300 mA below D type:200mA below A type:400mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection A type: surge absorption
Ambient temperature humidity	During operation,storage: individually-30~+65(No freeze,no drew), During operation,storage: Individually35~95%RH
Insulation resistance	50 MΩ about(DC500 megameter) between charging and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging and housing
Temperature influence	Temperature range -30~+65℃, at+23℃, ±15%detection distance Temperature range-25~+60℃, at+23℃, ±10%detection distance
Voltage influence	Inside+/-15%rated supply voltage range, at rated supply voltage value; Inside +/-10% detection distance
Protection structure	IP67 ICE specification
material	Housing: Nickel plated brass; Detection surface: ABS

The latest plug type, high frequency, strong anti-interference proximity switch series

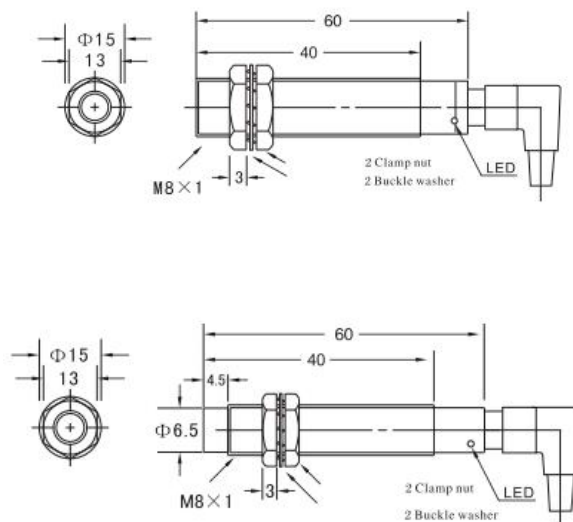


- Power supply reversal connection protection; short-circuit protection, can directly connect with PLC
- Used in common places with medium environment resistance
- Red LED indicates that it's available to detect the sensor operating state
- P67 protection structure (IEC specification)
- Read the "Matters needing attention" of the Product Instruction before use

• Type and Specification

Dimension				M8	
Mounting way				Screen shield type	Non-Screen shield type
TYPE	TYPE	NPN	NO	ALJ8A3-1-Z/N1-T	ALJ8A3-2-Z/N1-T
			NC	ALJ8A3-1-Z/N2-T	ALJ8A3-2-Z/N2-T
			NO+NC		
		PNP	NO	ALJ8A3-1-Z/P1-T	ALJ8A3-2-Z/P1-T
			NC	ALJ8A3-1-Z/P2-T	ALJ8A3-2-Z/P2-T
			NO+NC		
		Two Wire	NO	ALJ8A3-1-Z/D1-T	ALJ8A3-2-Z/D1-T
			NC	ALJ8A3-1-Z/D2-T	ALJ8A3-2-Z/D2-T
		AC	Two Wire	NO	ALJ8A3-1-J/A1-T
	NC			ALJ8A3-1-J/A2-T	ALJ8A3-2-J/A2-T
TYPE	3 wire		NO+NC		
Detection distance			1.5mm±10%	2mm±10%	
Set distance			0~1.2mm	0~1.6mm	
Standard detection object			iron8×8×1mm	iron12×12×1mm	
Response frequency			DC:2kHz AC:50Hz	DC:2kHz AC:50Hz	

• External Dimension (Unit mm)



• Characteristic Parameters

Delay distance	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type:13mA below D type:0.8mA below A type:1.7mA below
Control output	N.P type:300 mA below D type:200mA below A type:400mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection A type: surge absorption
Ambient temperature humidity	During operation,storage: individually-30~+65(No freeze,no dew), During operation,storage: Individually35~95%RH
Insulation resistance	50 MΩ about(DC500 megameter) between charging and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging and housing
Temperature influence	Temperature range -30~+65℃, at+23℃, ±15%detection distance Temperature range-25~+60℃, at+23℃, ±10%detection distance
Voltage influence	Inside+/-15%rated supply voltage range, at rated supply voltage value; Inside +/-10% detection distance
Protection structure	IP67 ICE specification
material	Housing: Nickel plated brass; Detection surface: ABS

The latest plug type, high frequency, strong anti-interference proximity switch series

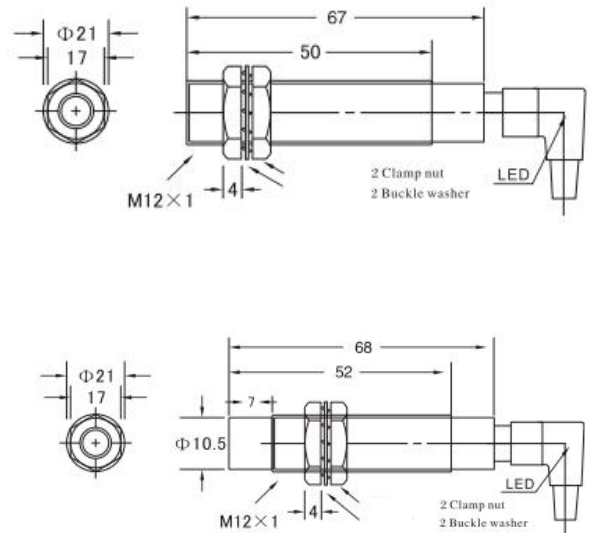


- Power supply reversal connection protection; short-circuit protection, can directly connect with PLC
- Used in common places with medium environment resistance
- Red LED indicates that it's available to detect the sensor operating state
- P67 protection structure (IEC specification)
- Read the "Matters needing attention" of the Product Instruction before use

• Type and Specification

Dimension				M12	
Mounting way				Screen shield type	Non-Screen shield type
TYPE	DC	NPN	NO	ALJ12A3-2-Z/N1-T	ALJ12A3-4-Z/N1-T
			NC	ALJ12A3-2-Z/N2-T	ALJ12A3-4-Z/N2-T
			NO+NC	ALJ12A3-2-Z/N3-T	ALJ12A3-4-Z/N3-T
		PNP	NO	ALJ12A3-2-Z/P1-T	ALJ12A3-4-Z/P1-T
			NC	ALJ12A3-2-Z/P2-T	ALJ12A3-4-Z/P2-T
			NO+NC	ALJ12A3-2-Z/P3-T	ALJ12A3-4-Z/P3-T
		Two Wire	NO	ALJ12A3-2-Z/D1-T	ALJ12A3-4-Z/D1-T
			NC	ALJ12A3-2-Z/D2-T	ALJ12A3-4-Z/D2-T
	AC	Two Wire	NO	ALJ12A3-2-J/A1-T	ALJ12A3-4-J/A1-T
			NC	ALJ12A3-2-J/A2-T	ALJ12A3-4-J/A2-T
TYPE	3 wire	NO+NC			
Detection distance				2mm±10%	4mm±10%
Set distance				0~1.6mm	0~3.6mm
Standard detection object				iron12×12×1mm	iron15×15×1mm
Response frequency				DC:1kHz AC:50Hz	DC:1kHz AC:50Hz

• External Dimension (Unit mm)



• Characteristic Parameters

Delay distance	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type:13mA below D type:0.8mA below A type:1.7mA below
Control output	N.P type:300 mA below D type:200mA below A type:400mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection A type: surge absorption
Ambient temperature humidity	During operation,storage: individually-30~+65(No freeze,no drew), During operation,storage: Individually35~95%RH
Insulation resistance	50 MΩ about(DC500 megameter) between charging and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging and housing
Temperature influence	Temperature range -30~+65℃, at+23℃, ±15%detection distance Temperature range-25~+60℃, at+23℃, ±10%detection distance
Voltage influence	Inside+/-15%rated supply voltage range, at rated supply voltage value; Inside +/-10% detection distance
Protection structure	IP67 ICE specification
material	Housing: Nickel plated brass; Detection surface: ABS

The latest plug type, high frequency, strong anti-interference proximity switch series

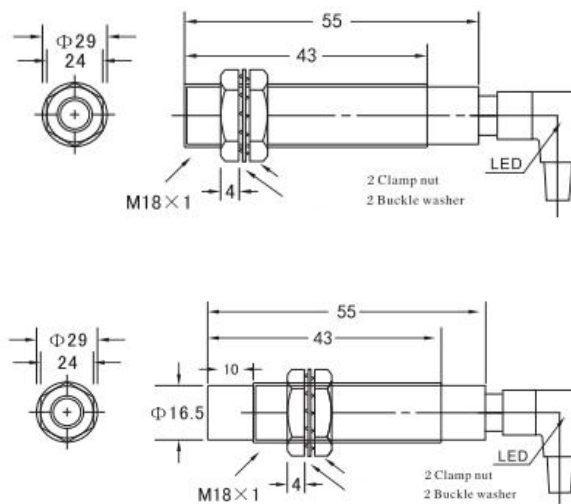


- Power supply reversal connection protection; short-circuit protection, can directly connect with PLC
- Used in common places with medium environment resistance
- Red LED indicates that it's available to detect the sensor operating state
- P67 protection structure (IEC specification)
- Read the "Matters needing attention" of the Product Instruction before use

• Type and Specification

Dimension				M18	
Mounting way				Screen shield type	Non-Screen shield type
TYPE	TYPE	NPN	NO	ALJ18A3-5-Z/N1-T	ALJ18A3-8-Z/N1-T
			NC	ALJ18A3-5-Z/N2-T	ALJ18A3-8-Z/N2-T
			NO+NC	ALJ18A3-5-Z/N3-T	ALJ18A3-8-Z/N3-T
		PNP	NO	ALJ18A3-5-Z/P1-T	ALJ18A3-8-Z/P1-T
			NC	ALJ18A3-5-Z/P2-T	ALJ18A3-8-Z/P2-T
			NO+NC	ALJ18A3-5-Z/P3-T	ALJ18A3-8-Z/P3-T
		Two Wire	NO	ALJ18A3-5-Z/D1-T	ALJ18A3-8-Z/D1-T
			NC	ALJ18A3-5-Z/D2-T	ALJ18A3-8-Z/D2-T
		AC	Two Wire	NO	ALJ18A3-5-J/A1-T
	NC			ALJ18A3-5-J/A2-T	ALJ18A3-8-J/A2-T
	3 wire		NO+NC	ALJ18A3-5-J/A3-T	ALJ18A3-8-J/A3-T
Detection distance				5mm±10%	8mm±10%
Set distance				0~4mm	0~7mm
Standard detection object				iron18×18×1mm	iron18×18×1mm
Response frequency				DC:0.8kHz AC:50Hz	DC:0.8kHz AC:50Hz

• External Dimension (Unit mm)



• Characteristic Parameters

Delay distance	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type:13mA below D type:0.8mA below A type:1.7mA below
Control output	N.P type:300 mA below D type:200mA below A type:400mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection A type: surge absorption
Ambient temperature humidity	During operation,storage: individually-30~+65(No freeze,no drew), During operation,storage: Individually35~95%RH
Insulation resistance	50 MΩ about(DC500 megameter) between charging and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging and housing
Temperature influence	Temperature range -30~+65℃, at+23℃, ±15%detection distance Temperature range-25~+60℃, at+23℃, ±10%detection distance
Voltage influence	Inside+/-15%rated supply voltage range, at rated supply voltage value; Inside +/-10% detection distance
Protection structure	IP67 ICE specification
material	Housing: Nickel plated brass; Detection surface: ABS

The latest plug type, high frequency, strong anti-interference proximity switch series

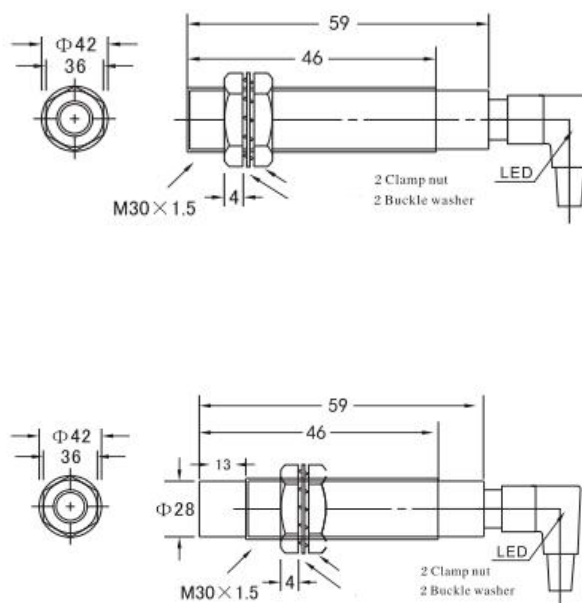


- Power supply reversal connection protection; short-circuit protection, can directly connect with PLC
- Used in common places with medium environment resistance
- Red LED indicates that it's available to detect the sensor operating state
- P67 protection structure (IEC specification)
- Read the "Matters needing attention" of the Product Instruction before use

• Type and Specification

Dimension				M30	
Mounting way				Screen shield type	Non-Screen shield type
TYPE	TYPE	NPN	NO	ALJ30A3-10-Z/N1-T	ALJ30A3-15-Z/N1-T
			NC	ALJ30A3-10-Z/N2-T	ALJ30A3-15-Z/N2-T
			NO+NC	ALJ30A3-10-Z/N3-T	ALJ30A3-15-Z/N3-T
		PNP	NO	ALJ30A3-10-Z/P1-T	ALJ30A3-15-Z/P1-T
			NC	ALJ30A3-10-Z/P2-T	ALJ30A3-15-Z/P2-T
			NO+NC	ALJ30A3-10-Z/P3-T	ALJ30A3-15-Z/P3-T
		Two Wire	NO	ALJ30A3-10-Z/D1-T	ALJ30A3-15-Z/D1-T
			NC	ALJ30A3-10-Z/D2-T	ALJ30A3-15-Z/D2-T
		AC	Two Wire	NO	ALJ30A3-10-J/A1-T
	NC			ALJ30A3-10-J/A2-T	ALJ30A3-15-J/A2-T
	TYPE		3 wire	NO+NC	ALJ30A3-10-J/A3-T
	Detection distance				10mm±10%
Set distance				0~8mm	0~13mm
Standard detection object				iron30×30×1mm	iron54×54×1mm
Response frequency				DC:0.5kHz AC:50Hz	DC:0.5kHz AC:50Hz

• External Dimension (Unit mm)



• Characteristic Parameters

Delay distance	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type:13mA below D type:0.8mA below A type:1.7mA below
Control output	N.P type:300 mA below D type:200mA below A type:400mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection A type: surge absorption
Ambient temperature humidity	During operation,storage: individually-30~+65(No freeze,no drew), During operation,storage: Individually35~95%RH
Insulation resistance	50 MΩ about(DC500 megameter) between charging and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging and housing
Temperature influence	Temperature range -30~+65℃, at+23℃, ±15%detection distance Temperature range-25~+60℃, at+23℃, ±10%detection distance
Voltage influence	Inside+/-15%rated supply voltage range, at rated supply voltage value; Inside +/-10% detection distance
Protection structure	IP67 ICE specification
material	Housing: Nickel plated brass; Detection surface: ABS

The latest lengthen type, high frequency, strong anti-interference proximity switch series

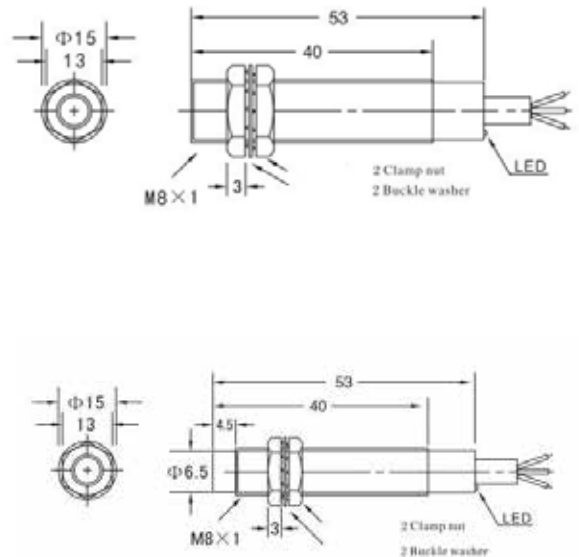


- Power supply reversal connection protection; short-circuit protection, can directly connect with PLC
- Used in common places with medium environment resistance
- Red LED indicates that it's available to detect the sensor operating state
- P67 protection structure (IEC specification)
- Read the "Matters needing attention" of the Product Instruction before use

• Type and Specification

Dimension				M8	
Mounting way				Screen shield type	Non-Screen shield type
TYPE	DC	NPN	NO	ALJ8A3-1-Z/N1-L	ALJ8A3-2-Z/N1-L
			NC	ALJ8A3-1-Z/N2-L	ALJ8A3-2-Z/N2-L
			NO+NC	ALJ8A3-1-Z/N3-L	ALJ8A3-2-Z/N3-L
		PNP	NO	ALJ8A3-1-Z/P1-L	ALJ8A3-2-Z/P1-L
			NC	ALJ8A3-1-Z/P2-L	ALJ8A3-2-Z/P2-L
			NO+NC	ALJ8A3-1-Z/P3-L	ALJ8A3-2-Z/P3-L
		Two Wire	NO	ALJ8A3-1-Z/D1-L	ALJ8A3-2-Z/D1-L
			NC	ALJ8A3-1-Z/D2-L	ALJ8A3-2-Z/D2-L
	AC	Two Wire	NO	ALJ8A3-1-J/A1-L	ALJ8A3-2-J/A1-L
			NC	ALJ8A3-1-J/A2-L	ALJ8A3-2-J/A2-L
TYPE	3 wire	NO+NC			
Detection distance				1.5mm±10%	2mm±10%
Set distance				0~1.2mm	0~1.6mm
Standard detection object				iron8×8×1mm	iron12×12×1mm
Response frequency				DC:2kHz AC:50Hz	DC:2kHz AC:50Hz

• External Dimension (Unit mm)



• Characteristic Parameters

Delay distance	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type:13mA below D type:0.8mA below A type:1.7mA below
Control output	N.P type:300 mA below D type:200mA below A type:400mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection A type: surge absorption
Ambient temperature humidity	During operation,storage: individually-30~+65(No freeze,no drew), During operation,storage: Individually35~95%RH
Insulation resistance	50 MΩ about(DC500 megameter) between charging and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging and housing
Temperature influence	Temperature range -30~+65℃, at+23℃, ±15%detection distance Temperature range-25~+60℃, at+23℃, ±10%detection distance
Voltage influence	Inside+/-15%rated supply voltage range, at rated supply voltage value; Inside +/-10% detection distance
Protection structure	IP67 ICE specification
material	Housing: Nickel plated brass; Detection surface: ABS



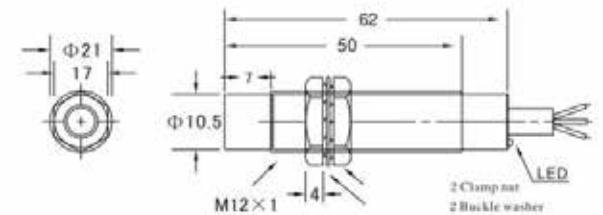
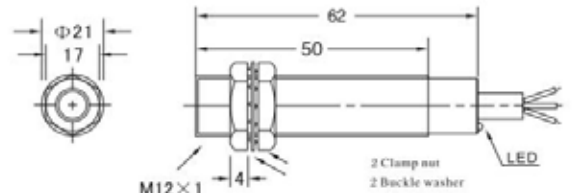
The latest lengthen type, high frequency, strong anti-interference proximity switch series

- Power supply reversal connection protection; short-circuit protection, can directly connect with PLC
- Used in common places with medium environment resistance
- Red LED indicates that it's available to detect the sensor operating state
- P67 protection structure (IEC specification)
- Read the "Matters needing attention" of the Product Instruction before use

• Type and Specification

Dimension				M12	
Mounting way				Screen shield type	Non-Screen shield type
TYPE	TYPE	NPN	NO	ALJ12A3-2-Z/N1-L	ALJ12A3-4-Z/N1-L
			NC	ALJ12A3-2-Z/N2-L	ALJ12A3-4-Z/N2-L
			NO+NC	ALJ12A3-2-Z/N3-L	ALJ12A3-4-Z/N3-L
		PNP	NO	ALJ12A3-2-Z/P1-L	ALJ12A3-4-Z/P1-L
			NC	ALJ12A3-2-Z/P2-L	ALJ12A3-4-Z/P2-L
			NO+NC	ALJ12A3-2-Z/P3-L	ALJ12A3-4-Z/P3-L
		Two Wire	NO	ALJ12A3-2-Z/D1-L	ALJ12A3-4-Z/D1-L
			NC	ALJ12A3-2-Z/D2-L	ALJ12A3-4-Z/D2-L
	AC	Two Wire	NO	ALJ12A3-2-J/A1-L	ALJ12A3-4-J/A1-L
			NC	ALJ12A3-2-J/A2-L	ALJ12A3-4-J/A2-L
TYPE	3 wire	NO+NC			
Detection distance				2mm±10%	4mm±10%
Set distance				0~1.6mm	0~3.6mm
Standard detection object				iron12×12×1mm	iron15×15×1mm
Response frequency				DC:1kHz AC:50Hz	DC:1kHz AC:50Hz

• External Dimension (Unit mm)



• Characteristic Parameters

Delay distance	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type:13mA below D type:0.8mA below A type:1.7mA below
Control output	N.P type:300 mA below D type:200mA below A type:400mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection A type: surge absorption
Ambient temperature humidity	During operation,storage: individually-30~+65(No freeze,no drew), During operation,storage: Individually35~95%RH
Insulation resistance	50 MΩ about(DC500 megameter) between charging and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging and housing
Temperature influence	Temperature range -30~+65℃, at+23℃, ±15% detection distance Temperature range-25~+60℃, at+23℃, ±10% detection distance
Voltage influence	Inside+/-15%rated supply voltage range, at rated supply voltage value; Inside +/-10% detection distance
Protection structure	IP67 ICE specification
material	Housing: Nickel plated brass; Detection surface: ABS

The latest lengthen type, high frequency, strong anti-interference proximity switch series

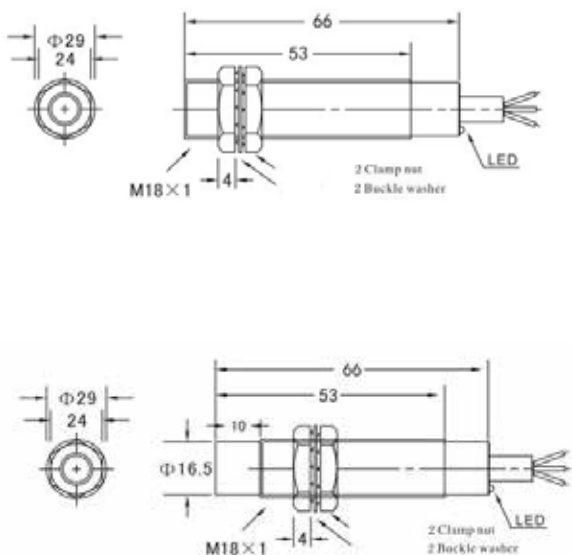


- Power supply reversal connection protection; short-circuit protection, can directly connect with PLC
- Used in common places with medium environment resistance
- Red LED indicates that it's available to detect the sensor operating state
- P67 protection structure (IEC specification)
- Read the "Matters needing attention" of the Product Instruction before use

• Type and Specification

Dimension				M18	
Mounting way				Screen shield type	Non-Screen shield type
TYPE	TYPE	NPN	NO	ALJ18A3-5-Z/N1-L	ALJ18A3-8-Z/N1-L
			NC	ALJ18A3-5-Z/N2-L	ALJ18A3-8-Z/N2-L
			NO+NC	ALJ18A3-5-Z/N3-L	ALJ18A3-8-Z/N3-L
		PNP	NO	ALJ18A3-5-Z/P1-L	ALJ18A3-8-Z/P1-L
			NC	ALJ18A3-5-Z/P2-L	ALJ18A3-8-Z/P2-L
			NO+NC	ALJ18A3-5-Z/P3-L	ALJ18A3-8-Z/P3-L
		Two Wire	NO	ALJ18A3-5-Z/D1-L	ALJ18A3-8-Z/D1-L
			NC	ALJ18A3-5-Z/D2-L	ALJ18A3-8-Z/D2-L
		AC	Two Wire	NO	ALJ18A3-5-J/A1-L
	NC			ALJ18A3-5-J/A2-L	ALJ18A3-8-J/A2-L
	TYPE		3 wire	NO+NC	ALJ18A3-5-J/A3-L
Detection distance				5mm±10%	8mm±10%
Set distance				0~4mm	0~7mm
Standard detection object				iron18×18×1mm	iron18×18×1mm
Response frequency				DC:0.8kHz AC:50Hz	DC:0.8kHz AC:50Hz

• External Dimension (Unit mm)



• Characteristic Parameters

Delay distance	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type:13mA below D type:0.8mA below A type:1.7mA below
Control output	N.P type:300 mA below D type:200mA below A type:400mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection A type: surge absorption
Ambient temperature humidity	During operation,storage: individually-30~+65(No freeze,no drew), During operation,storage: Individually35~95%RH
Insulation resistance	50 MΩ about(DC500 megameter) between charging and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging and housing
Temperature influence	Temperature range -30~+65℃, at+23℃, ±15%detection distance Temperature range-25~+60℃, at+23℃, ±10%detection distance
Voltage influence	Inside+/-15%rated supply voltage range, at rated supply voltage value; Inside +/-10% detection distance
Protection structure	IP67 ICE specification
material	Housing: Nickel plated brass; Detection surface: ABS

The latest lengthen type, high frequency, strong anti-interference proximity switch series

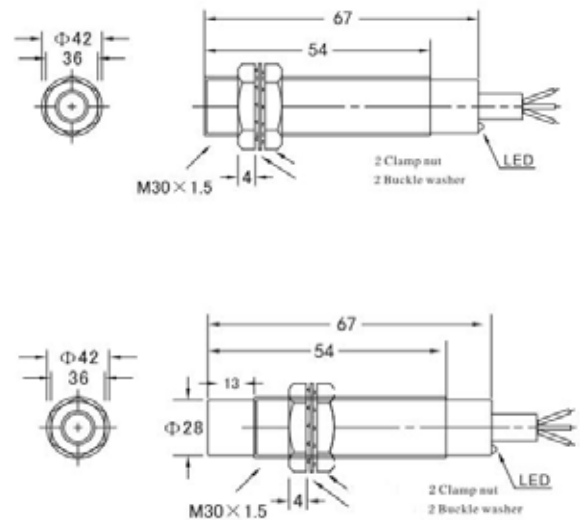


- Power supply reversal connection protection; short-circuit protection, can directly connect with PLC
- Used in common places with medium environment resistance
- Red LED indicates that it's available to detect the sensor operating state
- P67 protection structure (IEC specification)
- Read the "Matters needing attention" of the Product Instruction before use

• Type and Specification

Dimension				M30	
Mounting way				Screen shield type	Non-Screen shield type
TYPE	TYPE	NPN	NO	ALJ30A3-10-Z/N1-L	ALJ30A3-15-Z/N1-L
			NC	ALJ30A3-10-Z/N2-L	ALJ30A3-15-Z/N2-L
			NO+NC	ALJ30A3-10-Z/N3-L	ALJ30A3-15-Z/N3-L
		PNP	NO	ALJ30A3-10-Z/P1-L	ALJ30A3-15-Z/P1-L
			NC	ALJ30A3-10-Z/P2-L	ALJ30A3-15-Z/P2-L
			NO+NC	ALJ30A3-10-Z/P3-L	ALJ30A3-15-Z/P3-L
		Two Wire	NO	ALJ30A3-10-Z/D1-L	ALJ30A3-15-Z/D1-L
			NC	ALJ30A3-10-Z/D2-L	ALJ30A3-15-Z/D2-L
	AC	Two Wire	NO	ALJ30A3-10-J/A1-L	ALJ30A3-15-J/A1-L
			NC	ALJ30A3-10-J/A2-L	ALJ30A3-15-J/A2-L
3 wire		NO+NC	ALJ30A3-10-J/A3-L	ALJ30A3-15-J/A3-L	
Detection distance				10mm±10%	15mm±10%
Set distance				0~8mm	0~13mm
Standard detection object				iron30×30×1mm	iron54×54×1mm
Response frequency				DC:0.5kHz AC:50Hz	DC:0.5kHz AC:50Hz

• External Dimension (Unit mm)



• Characteristic Parameters

Delay distance	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type:13mA below D type:0.8mA below A type:1.7mA below
Control output	N.P type:300 mA below D type:200mA below A type:400mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection A type: surge absorption
Ambient temperature humidity	During operation,storage: individually-30~+65(No freeze,no drew), During operation,storage: Individually35~95%RH
Insulation resistance	50 MΩ about(DC500 megameter) between charging and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging and housing
Temperature influence	Temperature range -30~+65℃, at+23℃, ±15%detection distance Temperature range-25~+60℃, at+23℃, ±10%detection distance
Voltage influence	Inside+/-15%rated supply voltage range, at rated supply voltage value; Inside +/-10% detection distance
Protection structure	IP67 ICE specification
material	Housing: Nickel plated brass; Detection surface: ABS



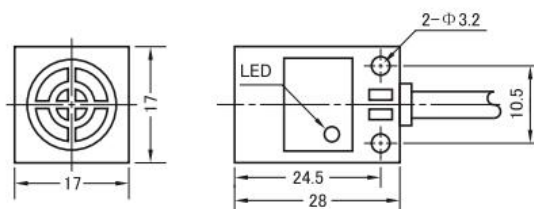
The latest launch angle type, square type, flat type, high frequency, strong anti-interference proximity switch series

- Power supply reversal connection protection; short-circuit protection, can directly connect with PLC
- Used in common places with medium environment resistance
- Red LED indicates that it's available to detect the sensor operating state
- P67 protection structure (IEC specification)
- Read the "Matters needing attention" of the Product Instruction before use

• Type and Specification

Dimension				17×17×28
Mounting way				Non-screen shield type
TYPE	DC TYPE	NPN	NO	ATL-Q5MN1
			NC	ATL-Q5MN2
			NO+NC	ATL-Q5MN3
		PNP	NO	ATL-Q5MP1
			NC	ATL-Q5MP2
			NO+NC	ATL-Q5MP3
		Two Wire	NO	ATL-Q5MD1
			NC	ATL-Q5MD2
		AC TYPE	Two Wire	NO
	NC			ATL-Q5MA2
3 wire	NO+NC			
Detection distance				5mm±10%
Set distance				0~4mm
Standard detection object				iron18×18×1mm
Response frequency				DC:1kHz AC:50Hz

• External Dimension (Unit mm)



• Characteristic Parameters

Delay distance	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type:13mA below D type:0.8mA below A type:1.7mA below
Control output	N.P type:300 mA below D type:200mA below A type:400mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection A type: surge absorption
Ambient temperature humidity	During operation,storage: individually-30~+65(No freeze,no drew), During operation,storage: Individually35~95%RH
Insulation resistance	50 MΩ about(DC500 megameter) between charging and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging and housing
Temperature influence	Temperature range -30~+65℃, at+23℃, ±15%detection distance Temperature range-25~+60℃, at+23℃, ±10%detection distance
Voltage influence	Inside+/-15%rated supply voltage range, at rated supply voltage value; Inside +/-10% detection distance
Protection structure	IP67 ICE specification
material	Housing: ABS; Detection surface: ABS



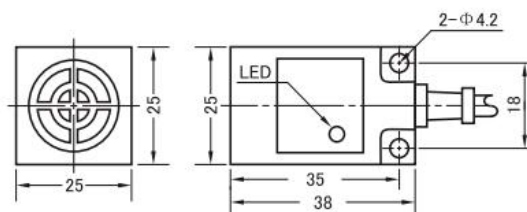
The latest launch angle type, square type, flat type, high frequency, strong anti-interference proximity switch series

- Power supply reversal connection protection; short-circuit protection, can directly connect with PLC
- Used in common places with medium environment resistance
- Red LED indicates that it's available to detect the sensor operating state
- P67 protection structure (IEC specification)
- Read the "Matters needing attention" of the Product Instruction before use

• Type and Specification

Dimension				25×25×38
Mounting way				Non-screen shield type
TYPE	DC TYPE	NPN	NO	ATL-N5MN1
			NC	ATL-N5MN2
			NO+NC	ATL-N5MN3
		PNP	NO	ATL-N5MP1
			NC	ATL-N5MP2
			NO+NC	ATL-N5MP3
		Two Wire	NO	ATL-N5MD1
			NC	ATL-N5MD2
		AC TYPE	Two Wire	NO
	NC			ATL-N5MA2
3 wire	NO+NC			
Detection distance				5mm±10%
Set distance				0~4mm
Standard detection object				iron25×25×1mm
Response frequency				DC:1kHz AC:50Hz

• External Dimension (Unit mm)



• Characteristic Parameters

Delay distance	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type:13mA below D type:0.8mA below A type:1.7mA below
Control output	N.P type:300 mA below D type:200mA below A type:400mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection A type: surge absorption
Ambient temperature humidity	During operation,storage: individually-30~+65(No freeze,no drew), During operation,storage: Individually35~95%RH
Insulation resistance	50 MΩ about(DC500 megameter) between charging and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging and housing
Temperature influence	Temperature range -30~+65℃, at+23℃, ±15%detection distance Temperature range-25~+60℃, at+23℃, ±10%detection distance
Voltage influence	Inside+/-15%rated supply voltage range, at rated supply voltage value; Inside +/-10% detection distance
Protection structure	IP67 ICE specification
material	Housing: ABS; Detection surface: ABS



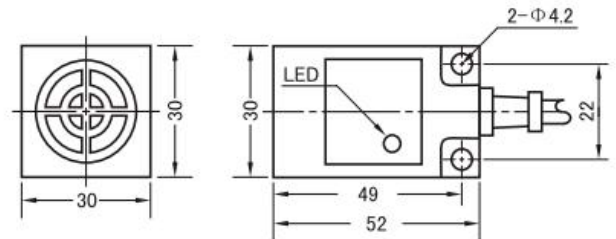
The latest launch angle type, square type, flat type, high frequency, strong anti-interference proximity switch series

- Power supply reversal connection protection; short-circuit protection, can directly connect with PLC
- Used in common places with medium environment resistance
- Red LED indicates that it's available to detect the sensor operating state
- P67 protection structure (IEC specification)
- Read the "Matters needing attention" of the Product Instruction before use

• Type and Specification

Dimension				30×30×52
Mounting way				Non-screen shield type
TYPE	DC TYPE	NPN	NO	ATL-N10MN1
			NC	ATL-N10MN2
			NO+NC	ATL-N10MN3
		PNP	NO	ATL-N10MP1
			NC	ATL-N10MP2
			NO+NC	ATL-N10MP3
		Two Wire	NO	ATL-N10MD1
			NC	ATL-N10MD2
		AC TYPE	Two Wire	NO
	NC			ATL-N10MA2
	3 wire		NO+NC	
	Detection distance			
Set distance				0~8mm
Standard detection object				iron45×45×1mm
Response frequency				DC:1kHz AC:50Hz

• External Dimension (Unit mm)



• Characteristic Parameters

Delay distance	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type:13mA below D type:0.8mA below A type:1.7mA below
Control output	N.P type:300 mA below D type:200mA below A type:400mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection A type: surge absorption
Ambient temperature humidity	During operation,storage: individually-30~+65(No freeze,no drew), During operation,storage: Individually35~95%RH
Insulation resistance	50 MΩ about(DC500 megameter) between charging and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging and housing
Temperature influence	Temperature range -30~+65℃, at+23℃, ±15%detection distance Temperature range-25~+60℃, at+23℃, ±10%detection distance
Voltage influence	Inside+/-15%rated supply voltage range, at rated supply voltage value; Inside +/-10% detection distance
Protection structure	IP67 ICE specification
material	Housing: ABS; Detection surface: ABS



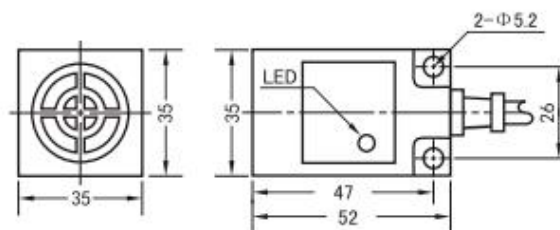
The latest launch angle type, square type, flat type, high frequency, strong anti-interference proximity switch series

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- Used in common places with medium environment resistance
- Red LED indicates that it's available to detect the sensor operating state
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- Read the "Matters needing attention" of the Product Instruction before use

● Type and Specification

Dimension				35×35×52
Mounting way				Non-screen shield type
TYPE	DC TYPE	NPN	NO	ATL-N15MN1
			NC	ATL-N15MN2
			NO+NC	ATL-N15MN3
		PNP	NO	ATL-N15MP1
			NC	ATL-N15MP2
			NO+NC	ATL-N15MP3
		Two Wire	NO	ATL-N15MD1
			NC	ATL-N15MD2
			AC TYPE	Two Wire
	NC	ATL-N15MA2		
3 wire	NO+NC			
Detection distance				15mm±10%
Set distance				0~13mm
Standard detection object				iron45×45×1mm
Response frequency				DC:1kHz AC:50Hz

● External Dimension (Unit mm)



● Characteristic Parameters

Delay distance	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type: 13mA below D type: 0.8mA below A type: 1.7mA below
Control output	N.P type: 300 mA below D type: 200mA below A type: 400mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection A type: surge absorption
Ambient temperature humidity	During operation, storage: individually -30~+65(No freeze, no dew), During operation, storage: Individually 35~95%RH
Insulation resistance	50 MΩ about (DC500 megameter) between charging and housing
Withstand voltage	AC1000V 50/60Hz 1 min between charging and housing
Temperature influence	Temperature range -30~+65℃, at +23℃, ±15% detection distance Temperature range -25~+60℃, at +23℃, ±10% detection distance
Voltage influence	Inside ±15% rated supply voltage range, at rated supply voltage value; Inside ±10% detection distance
Protection structure	IP67 IEC specification
material	Housing: ABS; Detection surface: ABS



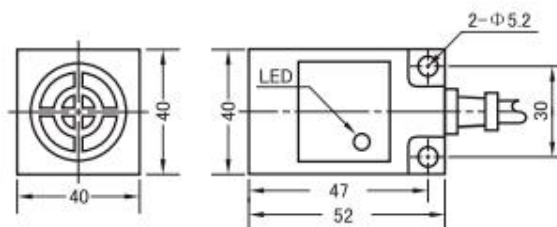
The latest launch angle type, square type, flat type, high frequency, strong anti-interference proximity switch series

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• Type and Specification

Dimension				40×40×52
Mounting way				Non-screen shield type
TYPE	DC TYPE	NPN	NO	ATL-N20MN1
			NC	ATL-N20MN2
			NO+NC	ATL-N20MN3
		PNP	NO	ATL-N20MP1
			NC	ATL-N20MP2
			NO+NC	ATL-N20MP3
		Two Wire	NO	ATL-N20MD1
			NC	ATL-N20MD2
	AC TYPE	Two Wire	NO	ATL-N20MA1
			NC	ATL-N20MA2
	3 wire	NO+NC		
Detection distance				20mm±10%
Set distance				0~17mm
Standard detection object				iron50×50×1mm
Response frequency				DC:1kHz AC:50Hz

• External Dimension (Unit mm)



• Characteristic Parameters

Delay distance	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type:13mA below D type:0.8mA below A type:1.7mA below
Control output	N.P type:300 mA below D type:200mA below A type:400mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection A type: surge absorption
Ambient temperature humidity	During operation,storage: individually-30~+65(No freeze,no dew), During operation,storage: Individually35~95%RH
Insulation resistance	50 MΩ about(DC500 megameter) between charging and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging and housing
Temperature influence	Temperature range -30~+65℃, at+23℃, ±15%detection distance Temperature range-25~+60℃, at+23℃, ±10%detection distance
Voltage influence	Inside+/-15%rated supply voltage range, at rated supply voltage value; Inside +/-10% detection distance
Protection structure	IP67 ICE specification
material	Housing: ABS; Detection surface: ABS



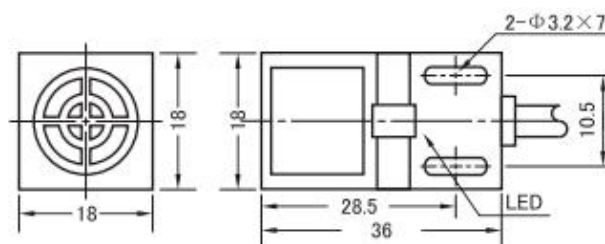
The latest launch angle type, square type, flat type, high frequency, strong anti-interference proximity switch series

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• Type and Specification

Dimension				18×18×36
Mounting way				Non-screen shield type
TYPE	DC TYPE	NPN	NO	ASN-04N1
			NC	ASN-04N2
			NO+NC	ASN-04N3
		PNP	NO	ASN-04P1
			NC	ASN-04P2
			NO+NC	ASN-04P3
		Two Wire	NO	ASN-04D1
			NC	ASN-04D2
		AC TYPE	Two Wire	NO
	NC			ASN-04A2
3 wire	NO+NC			
Detection distance				5mm±10%
Set distance				0~4mm
Standard detection object				iron18×18×1mm
Response frequency				DC:1kHz AC:50Hz

• External Dimension (Unit mm)



• Characteristic Parameters

Delay distance	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type:13mA below D type:0.8mA below A type:1.7mA below
Control output	N.P type:300 mA below D type:200mA below A type:400mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection A type: surge absorption
Ambient temperature humidity	During operation,storage: individually-30~+65(No freeze,no dew), During operation,storage: Individually35~95%RH
Insulation resistance	50 MΩ about(DC500 megameter) between charging and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging and housing
Temperature influence	Temperature range -30~+65℃, at+23℃, ±15%detection distance Temperature range-25~+60℃, at+23℃, ±10%detection distance
Voltage influence	Inside+/-15%rated supply voltage range, at rated supply voltage value; Inside +/-10% detection distance
Protection structure	IP67 ICE specification
material	Housing: ABS; Detection surface: ABS



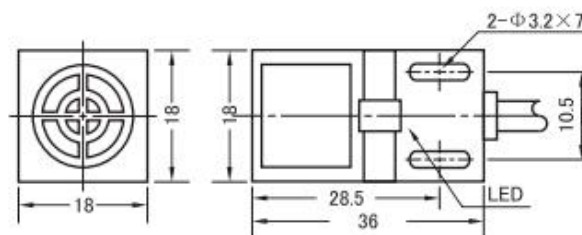
The latest launch angle type, square type, flat type, high frequency, strong anti-interference proximity switch series

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• Type and Specification

Dimension				18×18×34	
Mounting way				Non-screen shield type	
TYPE	DC	NPN	NO	ASN-05N1	
			NC	ASN-05N2	
			NO+NC	ASN-05N3	
		PNP	NO	ASN-05P1	
			NC	ASN-05P2	
			NO+NC	ASN-05P3	
		Two Wire	NO	ASN-05D1	
			NC	ASN-05D2	
	AC	Two Wire	NO	ASN-05A1	
			NC	ASN-05A2	
		TYPE	3 wire	NO+NC	
Detection distance			5mm±10%		
Set distance			0~4mm		
Standard detection object			iron18×18×1mm		
Response frequency			DC:1kHz AC:50Hz		

• External Dimension (Unit mm)



• Characteristic Parameters

Delay distance	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type:13mA below D type:0.8mA below A type:1.7mA below
Control output	N.P type:300 mA below D type:200mA below A type:400mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection A type: surge absorption
Ambient temperature humidity	During operation,storage: individually-30~+65(No freeze,no dew), During operation,storage: Individually35~95%RH
Insulation resistance	50 MΩ about(DC500 megameter) between charging and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging and housing
Temperature influence	Temperature range -30~+65℃, at+23℃, ±15%detection distance Temperature range-25~+60℃, at+23℃, ±10%detection distance
Voltage influence	Inside+/-15%rated supply voltage range, at rated supply voltage value; Inside +/-10% detection distance
Protection structure	IP67 ICE specification
material	Housing: ABS; Detection surface: ABS



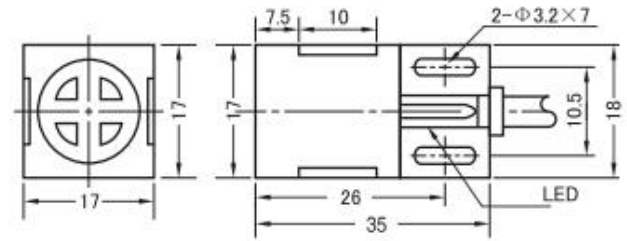
The latest launch angle type, square type, flat type, high frequency, strong anti-interference proximity switch series

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• Type and Specification

Dimension				17×17×35
Mounting way				Non-screen shield type
TYPE	TYPE	NPN	NO	APL-05N1
			NC	APL-05N2
			NO+NC	APL-05N3
		PNP	NO	APL-05P1
			NC	APL-05P2
			NO+NC	APL-05P3
		Two Wire	NO	APL-05D1
			NC	APL-05D2
		AC	Two Wire	NO
	NC			APL-05A2
TYPE	3 wire		NO+NC	
Detection distance				5mm±10%
Set distance				0~4mm
Standard detection object				iron18×18×1mm
Response frequency				DC:1kHz AC:50Hz

• External Dimension (Unit mm)



• Characteristic Parameters

Delay distance	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type:13mA below D type:0.8mA below A type:1.7mA below
Control output	N.P type:300 mA below D type:200mA below A type:400mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection A type: surge absorption
Ambient temperature humidity	During operation,storage: individually-30~+65(No freeze,no dew), During operation,storage: Individually35~95%RH
Insulation resistance	50 MΩ about(DC500 megameter) between charging and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging and housing
Temperature influence	Temperature range -30~+65℃, at+23℃, ±15% detection distance Temperature range-25~+60℃, at+23℃, ±10% detection distance
Voltage influence	Inside+/-15% rated supply voltage range, at rated supply voltage value; Inside +/-10% detection distance
Protection structure	IP67 ICE specification
material	Housing: ABS; Detection surface: ABS



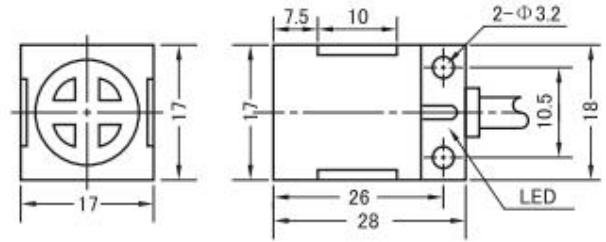
The latest launch angle type, square type, flat type, high frequency, strong anti-interference proximity switch series

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• Type and Specification

Dimension				17×17×28
Mounting way				Non-screen shield type
TYPE	DC TYPE	NPN	NO	APS-05N1
			NC	APS-05N2
			NO+NC	APS-05N3
		PNP	NO	APS-05P1
			NC	APS-05P2
			NO+NC	APS-05P3
		Two Wire	NO	APS-05D1
			NC	APS-05D2
	AC TYPE	Two Wire	NO	APS-05A1
			NC	APS-05A2
3 wire		NO+NC		
Detection distance				5mm±10%
Set distance				0~4mm
Standard detection object				iron18×18×1mm
Response frequency				DC:1kHz AC:50Hz

• External Dimension (Unit mm)



• Characteristic Parameters

Delay distance	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type:13mA below D type:0.8mA below A type:1.7mA below
Control output	N.P type:300 mA below D type:200mA below A type:400mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection A type: surge absorption
Ambient temperature humidity	During operation,storage: individually-30~+65(No freeze,no drew), During operation,storage: Individually35~95%RH
Insulation resistance	50 MΩ about(DC500 megameter) between charging and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging and housing
Temperature influence	Temperature range -30~+65℃, at+23℃, ±15%detection distance Temperature range-25~+60℃, at+23℃, ±10%detection distance
Voltage influence	Inside+/-15%rated supply voltage range, at rated supply voltage value; Inside +/-10% detection distance
Protection structure	IP67 ICE specification
material	Housing: ABS; Detection surface: ABS



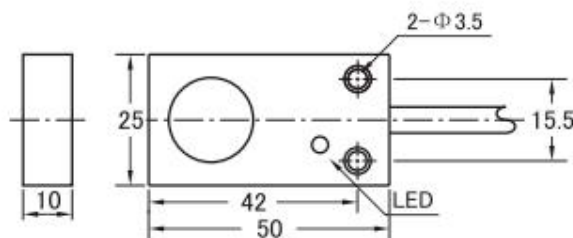
The latest launch angle type, square type, flat type, high frequency, strong anti-interference proximity switch series

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• Type and Specification

Dimension				50×25×10
Mounting way				Non-screen shield type
TYPE	DC TYPE	NPN	NO	ATL-W5N1
			NC	ATL-W5N2
			NO+NC	ATL-W5N3
		PNP	NO	ATL-W5P1
			NC	ATL-W5P2
			NO+NC	ATL-W5P3
		Two Wire	NO	ATL-W5D1
			NC	ATL-W5D2
	AC TYPE	Two Wire	NO	ATL-W5A1
			NC	ATL-W5A2
		3 wire	NO+NC	
Detection distance				5mm±10%
Set distance				0~4mm
Standard detection object				iron18×18×1mm
Response frequency				DC:1kHz AC:50Hz

• External Dimension (Unit mm)



• Characteristic Parameters

Delay distance	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type:13mA below D type:0.8mA below A type:1.7mA below
Control output	N.P type:300 mA below D type:200mA below A type:400mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection A type: surge absorption
Ambient temperature humidity	During operation,storage: individually-30~+65(No freeze,no dew), During operation,storage: Individually35~95%RH
Insulation resistance	50 MΩ about(DC500 megameter) between charging and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging and housing
Temperature influence	Temperature range -30~+65℃, at+23℃, ±15%detection distance Temperature range-25~+60℃, at+23℃, ±10%detection distance
Voltage influence	Inside+/-15%rated supply voltage range, at rated supply voltage value; Inside +/-10% detection distance
Protection structure	IP67 ICE specification
material	Housing: ABS; Detection surface: ABS



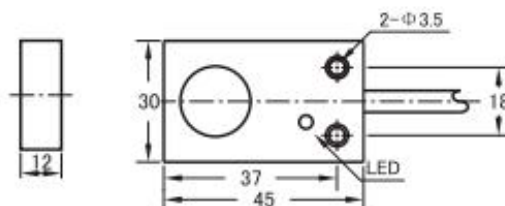
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• Type and Specification

Dimension				45×30×12
Mounting way				Non-screen shield type
TYPE	DC TYPE	NPN	NO	ATL-W7N1
			NC	ATL-W7N2
			NO+NC	ATL-W7N3
		PNP	NO	ATL-W7P1
			NC	ATL-W7P2
			NO+NC	ATL-W7P3
		Two Wire	NO	ATL-W7D1
			NC	ATL-W7D2
		AC TYPE	Two Wire	NO
	NC			ATL-W7A2
3 wire	NO+NC			
Detection distance				7mm±10%
Set distance				0~5mm
Standard detection object				iron25×25×1mm
Response frequency				DC:1kHz AC:50Hz

• External Dimension (Unit mm)



• Characteristic Parameters

Delay distance	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type:13mA below D type:0.8mA below A type:1.7mA below
Control output	N.P type:300 mA below D type:200mA below A type:400mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection A type: surge absorption
Ambient temperature humidity	During operation,storage: individually-30~+65(No freeze,no drew), During operation,storage: Individually35~95%RH
Insulation resistance	50 MΩ about(DC500 megameter) between charging and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging and housing
Temperature influence	Temperature range -30~+65℃, at+23℃, ±15% detection distance Temperature range-25~+60℃, at+23℃, ±10% detection distance
Voltage influence	Inside+/-15% rated supply voltage range, at rated supply voltage value; Inside +/-10% detection distance
Protection structure	IP67 ICE specification
material	Housing: ABS; Detection surface: ABS



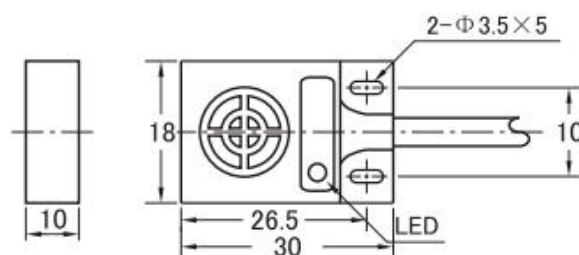
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• Type and Specification

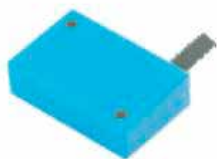
Dimension				30×18×10
Mounting way				Non-screen shield type
TYPE	DC TYPE	NPN	NO	AGKB-M0524N1
			NC	AGKB-M0524N2
			NO+NC	
		PNP	NO	AGKB-M0524P1
			NC	AGKB-M0524P2
			NO+NC	
		Two Wire	NO	AGKB-M0524D1
			NC	AGKB-M0524D2
		AC TYPE	Two Wire	NO
	NC			
3 wire	NO+NC			
Detection distance				5mm±10%
Set distance				0~4mm
Standard detection object				iron18×18×1mm
Response frequency				DC:1kHz AC:50Hz

• External Dimension (Unit mm)



• Characteristic Parameters

Delay distance	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type: 13mA below D type: 0.8mA below A type: 1.7mA below
Control output	N.P type: 300 mA below D type: 200mA below A type: 400mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection A type: surge absorption
Ambient temperature humidity	During operation, storage: individually -30~+65(No freeze, no dew), During operation, storage: Individually 35~95%RH
Insulation resistance	50 MΩ about (DC500 megameter) between charging and housing
Withstand voltage	AC1000V 50/60Hz 1 min between charging and housing
Temperature influence	Temperature range -30~+65℃, at +23℃, ±15% detection distance Temperature range -25~+60℃, at +23℃, ±10% detection distance
Voltage influence	Inside +/-15% rated supply voltage range, at rated supply voltage value; Inside +/-10% detection distance
Protection structure	IP67 IEC specification
material	Housing: ABS; Detection surface: ABS



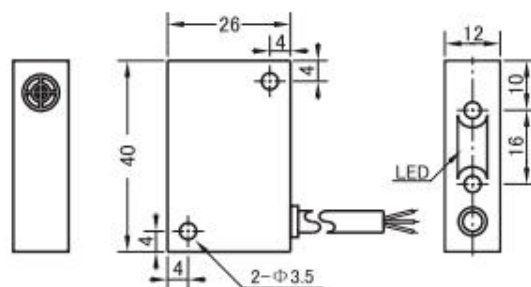
The latest launch angle type, square type, flat type, high frequency, strong anti-interference proximity switch series

- Power supply reversal connection protection; short-circuit protection, can directly connect with PLC
- Used in common places with medium environment resistance
- Red LED indicates that it's available to detect the sensor operating state
- P67 protection structure (IEC specification)
- Read the "Matters needing attention" of the Product Instruction before use

• Type and Specification

Dimension				40×26×12	
Mounting way				Non-screen shield type	
TYPE	DC TYPE	NPN	NO	AGN-04N1	
			NC	AGN-04N2	
			NO+NC		
		PNP	NO	AGN-04P1	
			NC	AGN-04P2	
			NO+NC		
		Two Wire	NO	AGN-04D1	
			NC	AGN-04D2	
		AC TYPE	Two Wire	NO	AGN-05A1
	NC			AGN-05A2	
	3 wire		NO+NC		
Detection distance				4mm±10%	
Set distance				0~3.6mm	
Standard detection object				iron18×18×1mm	
Response frequency				DC:1kHz AC:50Hz	

• External Dimension (Unit mm)



• Characteristic Parameters

Delay distance	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type:13mA below D type:0.8mA below A type:1.7mA below
Control output	N.P type:300 mA below D type:200mA below A type:400mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection A type: surge absorption
Ambient temperature humidity	During operation,storage: individually-30~+65(No freeze,no dew), During operation,storage: Individually35~95%RH
Insulation resistance	50 MΩ about(DC500 megameter) between charging and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging and housing
Temperature influence	Temperature range -30~+65℃, at+23℃, ±15%detection distance Temperature range-25~+60℃, at+23℃, ±10%detection distance
Voltage influence	Inside+/-15%rated supply voltage range, at rated supply voltage value; Inside +/-10% detection distance
Protection structure	IP67 ICE specification
material	Housing: ABS; Detection surface: ABS



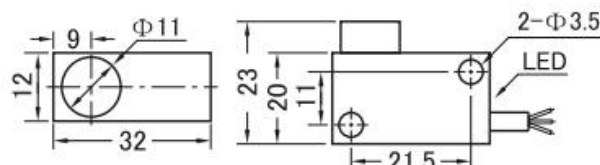
The latest launch angle type, square type, flat type, high frequency, strong anti-interference proximity switch series

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• Type and Specification

Dimension				32×22×11	
Mounting way				Non-screen shield type	
TYPE	DC TYPE	NPN	NO	AGN-05N1	
			NC	AGN-05N2	
			NO+NC		
		PNP	NO	AGN-05P1	
			NC	AGN-05P2	
			NO+NC		
		Two Wire	NO	AGN-05D1	
			NC	AGN-05D2	
		AC TYPE	Two Wire	NO	
	NC				
3 wire	NO+NC				
Detection distance				5mm±10%	
Set distance				0~4mm	
Standard detection object				iron18×18×1mm	
Response frequency				DC:1kHz AC:50Hz	

• External Dimension (Unit mm)



• Characteristic Parameters

Delay distance	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type:13mA below D type:0.8mA below A type:1.7mA below
Control output	N.P type:300 mA below D type:200mA below A type:400mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection A type: surge absorption
Ambient temperature humidity	During operation,storage: individually-30~+65(No freeze,no dew), During operation,storage: Individually35~95%RH
Insulation resistance	50 MΩ about(DC500 megameter) between charging and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging and housing
Temperature influence	Temperature range -30~+65℃, at+23℃, ±15%detection distance Temperature range-25~+60℃, at+23℃, ±10%detection distance
Voltage influence	Inside+/-15%rated supply voltage range, at rated supply voltage value; Inside +/-10% detection distance
Protection structure	IP67 ICE specification
material	Housing: ABS; Detection surface: ABS



The latest launch angle type, square type, flat type, high frequency, strong anti-interference proximity switch series

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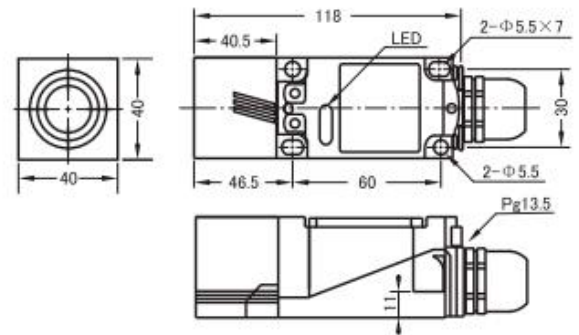
• Type and Specification

Dimension				40×40×118
Mounting way				Non-screen shield type
TYPE	DC TYPE	NPN	NO	AHY-3020N1
			NC	AHY-3020N2
			NO+NC	AHY-3020N3
		PNP	NO	AHY-3020P1
			NC	AHY-3020P2
			NO+NC	AHY-3020P3
		Two Wire	NO	AHY-3020D1
			NC	AHY-3020D2
		AC TYPE	Two Wire	NO
	NC			AHY-3020A2
3 wire	NO+NC			
Detection distance				20mm±10%
Set distance				0~18mm
Standard detection object				iron65×65×1mm
Response frequency				DC:1kHz AC:50Hz

• Characteristic Parameters

Delay distance	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type:13mA below D type:0.8mA below A type:1.7mA below
Control output	N.P type:300 mA below D type:200mA below A type:400mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection A type: surge absorption
Ambient temperature humidity	During operation,storage: individually-30~+65(No freeze,no dew), During operation,storage: Individually35~95%RH
Insulation resistance	50 MΩ about(DC500 megameter) between charging and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging and housing
Temperature influence	Temperature range -30~+65℃, at+23℃, ±15% detection distance Temperature range-25~+60℃, at+23℃, ±10% detection distance
Voltage influence	Inside+/-15% rated supply voltage range, at rated supply voltage value; Inside +/-10% detection distance
Protection structure	IP67 ICE specification
material	Housing: ABS; Detection surface: ABS

• External Dimension (Unit mm)





The latest launch angle type, square type, flat type, high frequency, strong anti-interference proximity switch series

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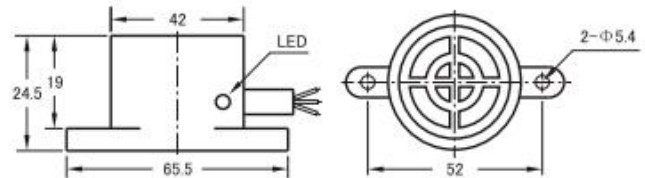
• Type and Specification

Dimension				42×25
Mounting way				Non-screen shield type
TYPE	DC	NPN	NO	ASJ-3018N1
			NC	ASJ-3018N2
			NO+NC	ASJ-3018N3
	DC	PNP	NO	ASJ-3018P1
			NC	ASJ-3018P2
			NO+NC	ASJ-3018P3
	Two Wire		NO	ASJ-3018D1
			NC	ASJ-3018D2
	AC	Two Wire	NO	ASJ-3018A1
			NC	ASJ-3018A2
	TYPE	3 wire	NO+NC	
Detection distance				18mm±10%
Set distance				0~16mm
Standard detection object				iron60×60×1mm
Response frequency				DC:1kHz AC:50Hz

• Characteristic Parameters

Delay distance	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type:13mA below D type:0.8mA below A type:1.7mA below
Control output	N.P type:300 mA below D type:200mA below A type:400mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection A type: surge absorption
Ambient temperature humidity	During operation,storage: individually-30~+65(No freeze,no drew), During operation,storage: Individually35~95%RH
Insulation resistance	50 MΩ about(DC500 megameter) between charging and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging and housing
Temperature influence	Temperature range -30~+65℃, at+23℃, ±15%detection distance Temperature range-25~+60℃, at+23℃, ±10%detection distance
Voltage influence	Inside+/-15%rated supply voltage range, at rated supply voltage value; Inside +/-10% detection distance
Protection structure	IP67 ICE specification
material	Housing: ABS; Detection surface: ABS

• External Dimension (Unit mm)





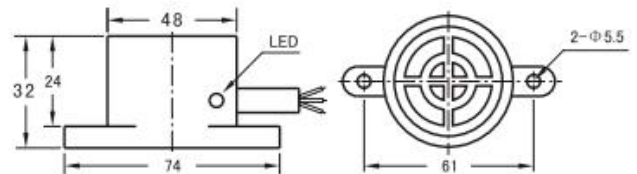
The latest launch angle type, square type, flat type, high frequency, strong anti-interference proximity switch series

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• Type and Specification

Dimension				48×32
Mounting way				Non-screen shield type
TYPE	NPN	DC	NO	ASD-3018N1
			NC	ASD-3018N2
			NO+NC	ASD-3018N3
	PNP	DC	NO	ASD-3018P1
			NC	ASD-3018P2
			NO+NC	ASD-3018P3
	Two Wire	DC	NO	ASD-3018D1
			NC	ASD-3018D2
	Two Wire	AC	NO	ASD-3018A1
			NC	ASD-3018A2
	3 wire	TYPE	NO+NC	
Detection distance				20mm±10%
Set distance				0~18mm
Standard detection object				iron65×65×1mm
Response frequency				DC:1kHz AC:50Hz

• External Dimension (Unit mm)



• Characteristic Parameters

Delay distance	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type:13mA below D type:0.8mA below A type:1.7mA below
Control output	N.P type:300 mA below D type:200mA below A type:400mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection A type: surge absorption
Ambient temperature humidity	During operation,storage: individually-30~+65(No freeze,no dew), During operation,storage: Individually35~95%RH
Insulation resistance	50 MΩ about(DC500 megameter) between charging and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging and housing
Temperature influence	Temperature range -30~+65℃, at+23℃, ±15%detection distance Temperature range-25~+60℃, at+23℃, ±10%detection distance
Voltage influence	Inside+/-15%rated supply voltage range, at rated supply voltage value; Inside +/-10% detection distance
Protection structure	IP67 ICE specification
material	Housing: ABS; Detection surface: ABS



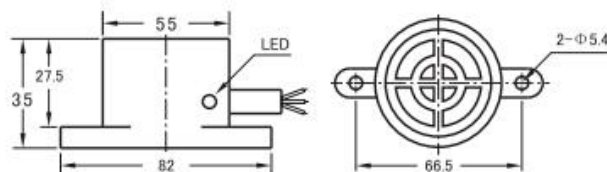
The latest launch angle type, square type, flat type, high frequency, strong anti-interference proximity switch series

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- Read the "Matters needing attention" of the Product Instruction before use

• Type and Specification

Dimension				55×35	
Mounting way				Non-screen shield type	
TYPE	DC TYPE	NPN	NO	ASE-3025N1	
			NC	ASE-3025N2	
			NO+NC	ASE-3025N3	
		PNP	NO	ASE-3025P1	
			NC	ASE-3025P2	
			NO+NC	ASE-3025P3	
		Two Wire	NO	ASE-3025D1	
			NC	ASE-3025D2	
	AC TYPE	Two Wire	NO	ASE-3025A1	
			NC	ASE-3025A2	
		3 wire	NO+NC		
Detection distance				25mm±10%	
Set distance				0~22mm	
Standard detection object				iron75×75×1mm	
Response frequency				DC:1kHz AC:50Hz	

• External Dimension (Unit mm)



• Characteristic Parameters

Delay distance	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type:13mA below D type:0.8mA below A type:1.7mA below
Control output	N.P type:300 mA below D type:200mA below A type:400mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection A type: surge absorption
Ambient temperature humidity	During operation,storage: individually-30~+65(No freeze,no drew), During operation,storage: Individually35~95%RH
Insulation resistance	50 MΩ about(DC500 megameter) between charging and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging and housing
Temperature influence	Temperature range -30~+65℃, at+23℃, ±15%detection distance Temperature range-25~+60℃, at+23℃, ±10%detection distance
Voltage influence	Inside+/-15%rated supply voltage range, at rated supply voltage value; Inside +/-10% detection distance
Protection structure	IP67 ICE specification
material	Housing: ABS; Detection surface: ABS



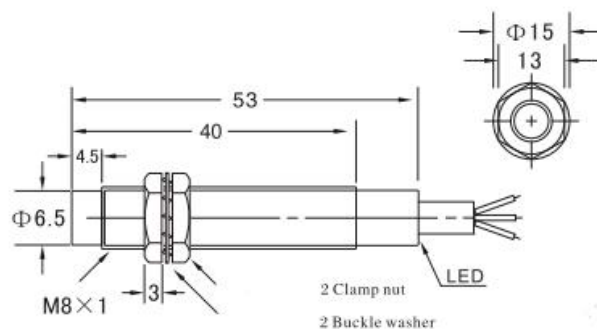
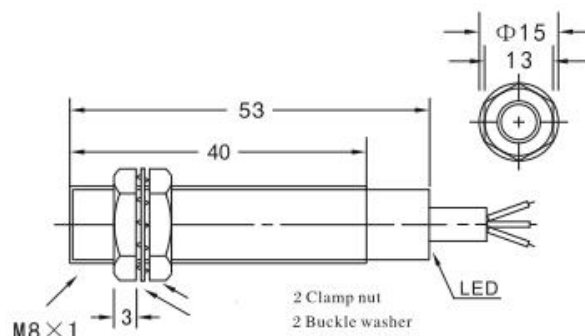
New type waterproof, high frequency, strong anti-interference proximity switch series

- Power supply reversal connection protection; short-circuit protection, can directly connect with PLC
- Used in common places with medium environment resistance
- Red LED indicates that it's available to detect the sensor operating state
- P67 protection structure (IEC specification)
- Read the "Matters needing attention" of the Product Instruction before use

• Type and Specification

Dimension				M8	
Mounting way				Screen shield type	Non-screen shield type
TYPE	DC	NPN	NO	HLJ8A3-1-Z/N1	HLJ8A3-2-Z/N1
			NC	HLJ8A3-1-Z/N2	HLJ8A3-2-Z/N2
			NO+NC		
	DC	PNP	NO	HLJ8A3-1-Z/P1	HLJ8A3-2-Z/P1
			NC	HLJ8A3-1-Z/P2	HLJ8A3-2-Z/P2
			NO+NC		
	Two Wire		NO	HLJ8A3-1-Z/D1	HLJ8A3-2-Z/D1
			NC	HLJ8A3-1-Z/D2	HLJ8A3-2-Z/D2
	AC	Two Wire	NO	HLJ8A3-1-J/A1	HLJ8A3-2-J/A1
			NC	HLJ8A3-1-J/A2	HLJ8A3-2-J/A2
	3 wire		NO+NC		
Detection distance				1.5mm±10%	2mm±10%
Set distance				0~1.2mm	0~1.6mm
Standard detection object				iron8×8×1	iron12×12×1
Response frequency				DC:2kHz AC:50HZ	DC:2kHz AC:50HZ

• External Dimension (Unit mm)



• Characteristic Parameters

Delay distance	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type:13mA below D type:0.8mA below A type:1.7mA below
Control output	N.P type:300 mA below D type:200mA below A type:400mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection A type: surge absorption
Ambient temperature humidity	During operation,storage: individually-30~+65(No freeze,no drew), During operation,storage: Individually35~95%RH
Insulation resistance	50 MΩ about(DC500 megameter) between charging and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging and housing
Temperature influence	Temperature range -30~+65℃, at+23℃, ±15%detection distance Temperature range -25~+60℃, at+23℃, ±10%detection distance
Voltage influence	Inside+/-15%rated supply voltage range, at rated supply voltage value; Inside +/-10% detection distance
Protection structure	IP67 ICE specification
material	Housing: Nickel plated brass; Detection surface: ABS



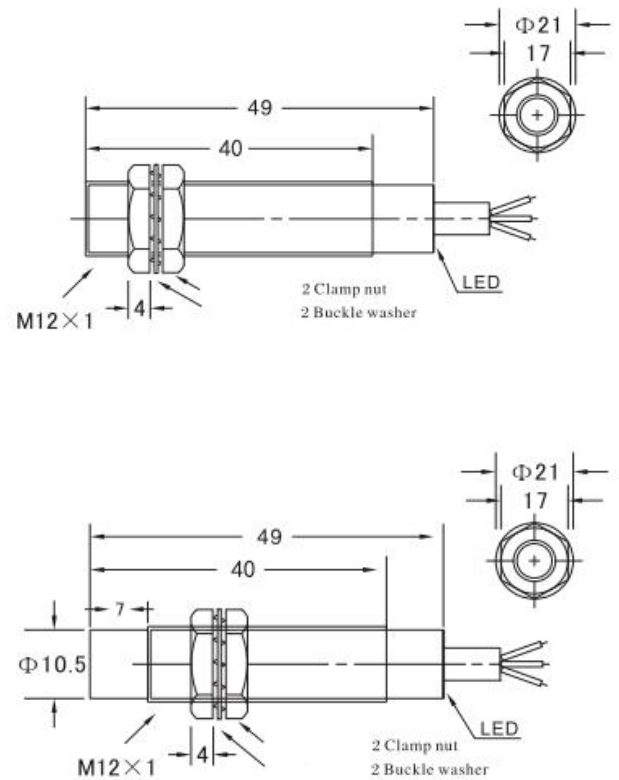
New type waterproof, high frequency, strong anti-interference proximity switch series

- Power supply reversal connection protection; short-circuit protection, can directly connect with PLC
- Used in common places with medium environment resistance
- Red LED indicates that it's available to detect the sensor operating state
- P67 protection structure (IEC specification)
- Read the "Matters needing attention" of the Product Instruction before use

• Type and Specification

Dimension				M12	
Mounting way				Screen shield type	Non-screen shield type
TYPE	TYPE	NPN	NO	HLJ12A3-2-Z/N1	HLJ12A3-4-Z/N1
			NC	HLJ12A3-2-Z/N2	HLJ12A3-4-Z/N2
			NO+NC	HLJ12A3-2-Z/N3	HLJ12A3-4-Z/N3
		PNP	NO	HLJ12A3-2-Z/P1	HLJ12A3-4-Z/P1
			NC	HLJ12A3-2-Z/P2	HLJ12A3-4-Z/P2
			NO+NC	HLJ12A3-2-Z/P3	HLJ12A3-4-Z/P3
		Two Wire	NO	HLJ12A3-2-Z/D1	HLJ12A3-4-Z/D1
			NC	HLJ12A3-2-Z/D2	HLJ12A3-4-Z/D2
	AC	Two Wire	NO	HLJ12A3-2-J/A1	HLJ12A3-4-J/A1
			NC	HLJ12A3-2-J/A2	HLJ12A3-4-J/A2
TYPE		3 wire	NO+NC		
Detection distance				2mm±10%	4mm±10%
Set distance				0~1.6mm	0~3.6mm
Standard detection object				iron12×12×1	iron15×15×1
Response frequency				DC:1kHz AC:50HZ	DC:1kHz AC:50HZ

• External Dimension (Unit mm)



• Characteristic Parameters

Delay distance	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type:13mA below D type:0.8mA below A type:1.7mA below
Control output	N.P type:300 mA below D type:200mA below A type:400mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection A type: surge absorption
Ambient temperature humidity	During operation,storage: individually-30~+65(No freeze,no drew), During operation,storage: Individually35~95%RH
Insulation resistance	50 MΩ about(DC500 megameter) between charging and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging and housing
Temperature influence	Temperature range -30~+65℃, at+23℃, ±15%detection distance Temperature range-25~+60℃, at+23℃, ±10%detection distance
Voltage influence	Inside+/-15%rated supply voltage range, at rated supply voltage value; Inside +/-10% detection distance
Protection structure	IP67 ICE specification
material	Housing: Nickel plated brass; Detection surface: ABS



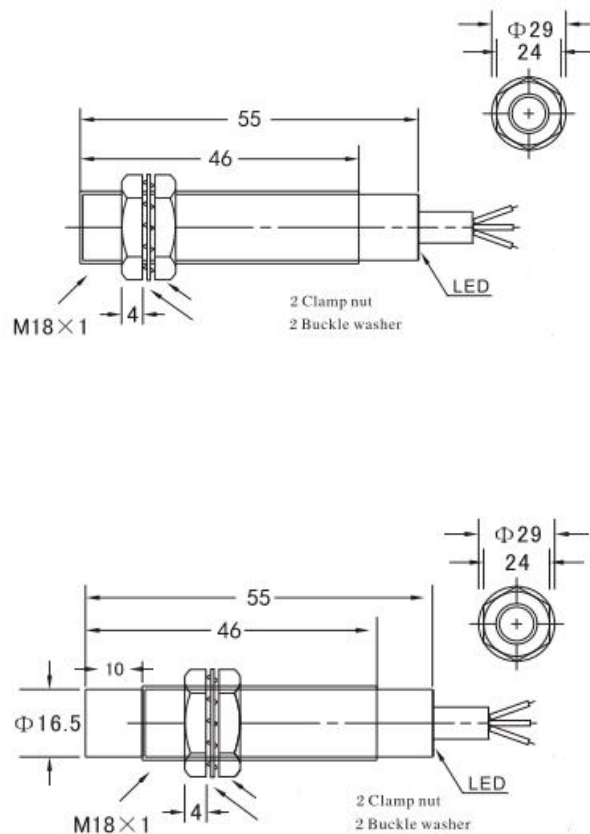
New type waterproof, high frequency, strong anti-interference proximity switch series

- Power supply reversal connection protection; short-circuit protection, can directly connect with PLC
- Used in common places with medium environment resistance
- Red LED indicates that it's available to detect the sensor operating state
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• Type and Specification

Dimension				M18	
Mounting way				Screen shield type	Non-screen shield type
TYPE	DC	NPN	NO	HLJ18A3-5-Z/N1	HLJ18A3-8-Z/N1
			NC	HLJ18A3-5-Z/N2	HLJ18A3-8-Z/N2
			NO+NC	HLJ18A3-5-Z/N3	HLJ18A3-8-Z/N3
	DC	PNP	NO	HLJ18A3-5-Z/P1	HLJ18A3-8-Z/P1
			NC	HLJ18A3-5-Z/P2	HLJ18A3-8-Z/P2
			NO+NC	HLJ18A3-5-Z/P3	HLJ18A3-8-Z/P3
	Two Wire		NO	HLJ18A3-5-Z/D1	HLJ18A3-8-Z/D1
			NC	HLJ18A3-5-Z/D2	HLJ18A3-8-Z/D2
	AC	Two Wire	NO	HLJ18A3-5-J/A1	HLJ18A3-8-J/A1
			NC	HLJ18A3-5-J/A2	HLJ18A3-8-J/A2
	3 wire		NO+NC	HLJ18A3-5-J/A3	HLJ18A3-8-J/A3
Detection distance				5mm±10%	8mm±10%
Set distance				0~4mm	0~7mm
Standard detection object				iron18×18×1	iron18×18×1
Response frequency				DC:0.8kHz AC:50HZ	DC:0.8kHz AC:50HZ

• External Dimension (Unit mm)



• Characteristic Parameters

Delay distance	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type:13mA below D type:0.8mA below A type:1.7mA below
Control output	N.P type:300 mA below D type:200mA below A type:400mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection A type: surge absorption
Ambient temperature humidity	During operation,storage: individually-30~+65(No freeze,no drew), During operation,storage: Individually35~95%RH
Insulation resistance	50 MΩ about(DC500 megameter) between charging and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging and housing
Temperature influence	Temperature range -30~+65℃, at+23℃, ±15% detection distance Temperature range-25~+60℃, at+23℃, ±10% detection distance
Voltage influence	Inside+/-15%rated supply voltage range, at rated supply voltage value; Inside +/-10% detection distance
Protection structure	IP67 ICE specification
material	Housing: Nickel plated brass; Detection surface: ABS



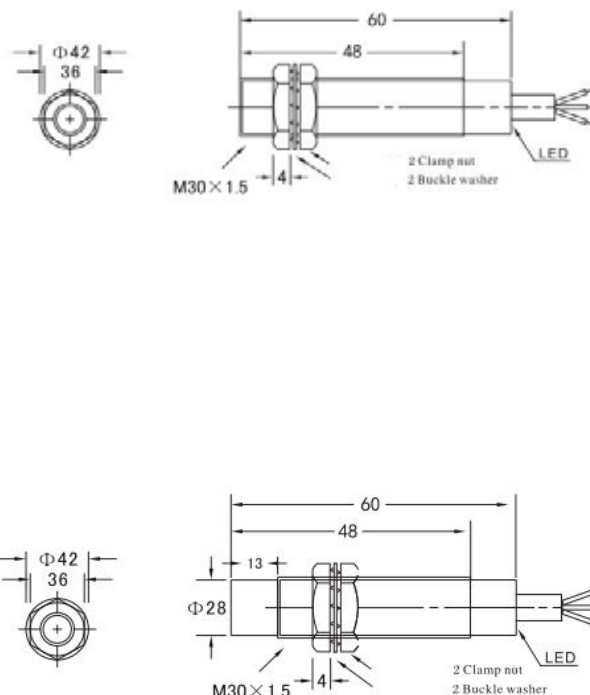
New type waterproof, high frequency, strong anti-interference proximity switch series

- Power supply reversal connection protection; short-circuit protection, can directly connect with PLC
- Used in common places with medium environment resistance
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• Type and Specification

Dimension				M30	
Mounting way				Screen shield type	Non-screen shield type
TYPE	TYPE	NPN	NO	HLJ30A3-10-Z/N1	HLJ30A3-15-Z/N1
			NC	HLJ30A3-10-Z/N2	HLJ30A3-15-Z/N2
			NO+NC	HLJ30A3-10-Z/N3	HLJ30A3-15-Z/N3
		PNP	NO	HLJ30A3-10-Z/P1	HLJ30A3-15-Z/P1
			NC	HLJ30A3-10-Z/P2	HLJ30A3-15-Z/P2
			NO+NC	HLJ30A3-10-Z/P3	HLJ30A3-15-Z/P3
		Two Wire	NO	HLJ30A3-10-Z/D1	HLJ30A3-15-Z/D1
			NC	HLJ30A3-10-Z/D2	HLJ30A3-15-Z/D2
		AC	Two Wire	NO	HLJ30A3-10-J/A1
	NC			HLJ30A3-10-J/A2	HLJ30A3-15-J/A2
	3 wire		NO+NC	HLJ30A3-10-J/A3	HLJ30A3-15-J/A3
	Detection distance			10mm±10%	15mm±10%
Set distance			0~8mm	0~13mm	
Standard detection object			iron30×30×1	iron54×54×1	
Response frequency			DC:0.5kHz AC:50HZ	DC:0.5kHz AC:50HZ	

• External Dimension (Unit mm)



• Characteristic Parameters

Delay distance	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type:13mA below D type:0.8mA below A type:1.7mA below
Control output	N.P type:300 mA below D type:200mA below A type:400mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection A type: surge absorption
Ambient temperature humidity	During operation,storage: individually-30~+65(No freeze,no drew), During operation,storage: Individually35~95%RH
Insulation resistance	50 MΩ about(DC500 megameter) between charging and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging and housing
Temperature influence	Temperature range -30~+65℃, at+23℃, ±15%detection distance Temperature range-25~+60℃, at+23℃, ±10%detection distance
Voltage influence	Inside+/-15%rated supply voltage range, at rated supply voltage value; Inside +/-10% detection distance
Protection structure	IP67 ICE specification
material	Housing: Nickel plated brass; Detection surface: ABS



New high temperature resistant, high pressure, the proximity switch series over a long distance

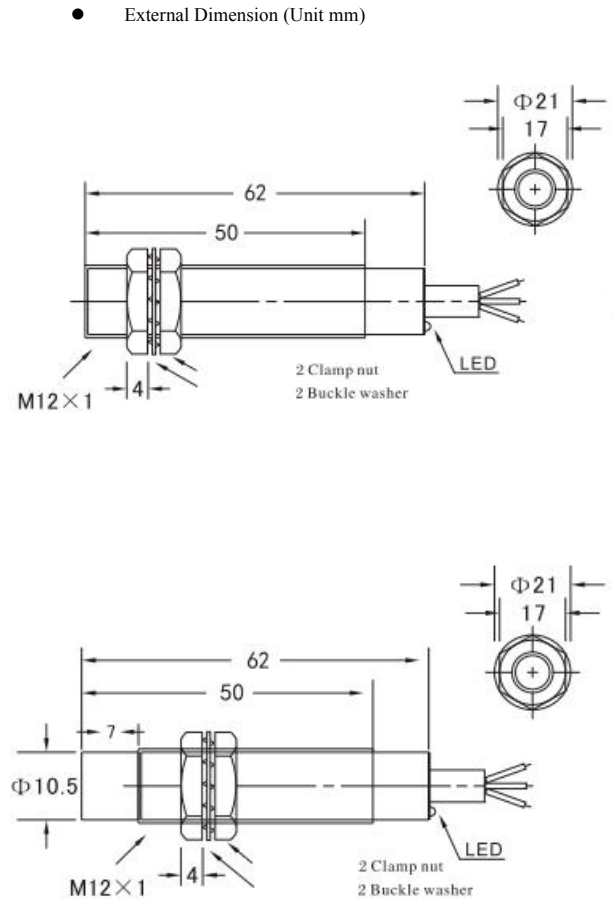
- Power supply reversal connection protection; short-circuit protection, can directly connect with PLC
- Used in common places with medium environment resistance
- Red LED indicates that it's available to detect the sensor operating state
- P67 protection structure (IEC specification)
- Read the "Matters needing attention" of the Product Instruction before use
- Note: High temperature resistant products, the highest temperature of +120;
High pressure type products, the highest pressure is 0-600bap
The housing material is stainless steel, the protection level is IP68

• Type and Specification

Dimension				M12	
Mounting way				Screen shield type	Non-screen shield type
TYPE	TYPE	NPN	NO	GLJ12A3-2-Z/N1	GLJ12A3-4-Z/N1
			NC	GLJ12A3-2-Z/N2	GLJ12A3-4-Z/N2
			NO+NC	GLJ12A3-2-Z/N3	GLJ12A3-4-Z/N3
		PNP	NO	GLJ12A3-2-Z/P1	GLJ12A3-4-Z/P1
			NC	GLJ12A3-2-Z/P2	GLJ12A3-4-Z/P2
			NO+NC	GLJ12A3-2-Z/P3	GLJ12A3-4-Z/P3
		Two Wire	NO	GLJ12A3-2-Z/D1	GLJ12A3-4-Z/D1
			NC	GLJ12A3-2-Z/D2	GLJ12A3-4-Z/D2
		AC	Two Wire	NO	GLJ12A3-2-J/A1
	NC			GLJ12A3-2-J/A2	GLJ12A3-4-J/A2
TYPE	3 wire		NO+NC		
Detection distance				2mm±10%	4mm±10%
Set distance				0~1.6mm	0~3.6mm
Standard detection object				iron12×12×1	iron15×15×1
Response frequency				DC:1kHz AC:50HZ	DC:1kHz AC:50HZ
Temperature				-25~+120℃	-25~+120℃

• Characteristic Parameters

Delay distance	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type:13mA below D type:0.8mA below A type:1.7mA below
Control output	N.P type:300 mA below D type:200mA below A type:400mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection A type: surge absorption
Ambient temperature humidity	During operation,storage: individually-30~+65(No freeze,no drew), During operation,storage: Individually35~95%RH
Insulation resistance	50 MΩ about(DC500 megameter) between charging and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging and housing
Temperature influence	Temperature range -30~+65℃, at+23℃, ±15%detection distance Temperature range-25~+60℃, at+23℃, ±10%detection distance
Voltage influence	Inside+/-15%rated supply voltage range, at rated supply voltage value; Inside +/-10% detection distance
Protection structure	IP67 ICE specification
material	Housing: Nickel plated brass; Detection surface: ABS





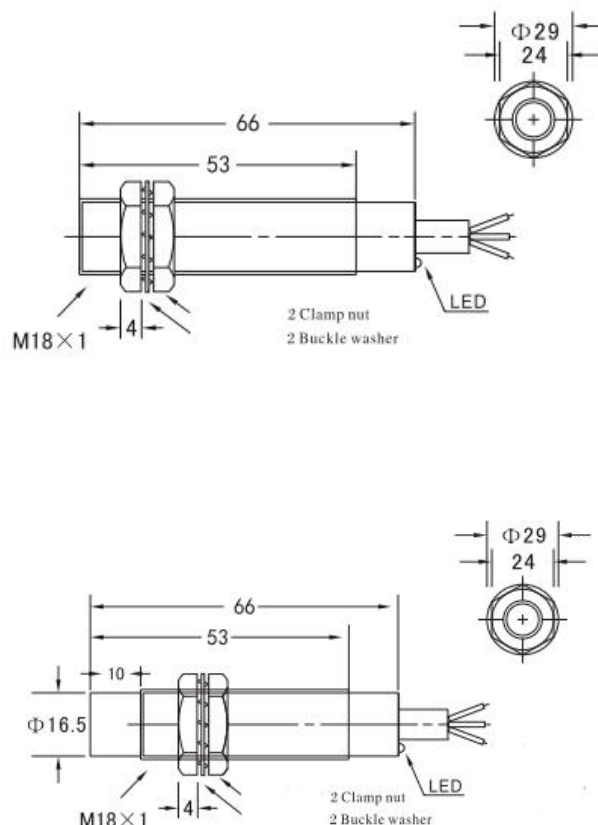
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High pressure type products, the highest pressure is 0-600bap
The housing material is stainless steel, the protection level is IP68

• Type and Specification

Dimension				M18	
Mounting way				Screen shield type	Non-screen shield type
TYPE	DC	NPN	NO	GLJ18A3-5-Z/N1	GLJ18A3-8-Z/N1
			NC	GLJ18A3-5-Z/N2	GLJ18A3-8-Z/N2
			NO+NC	GLJ18A3-5-Z/N3	GLJ18A3-8-Z/N3
	DC	PNP	NO	GLJ18A3-5-Z/P1	GLJ18A3-8-Z/P1
			NC	GLJ18A3-5-Z/P2	GLJ18A3-8-Z/P2
			NO+NC	GLJ18A3-5-Z/P3	GLJ18A3-8-Z/P3
	Two Wire		NO	GLJ18A3-5-Z/D1	GLJ18A3-8-Z/D1
			NC	GLJ18A3-5-Z/D2	GLJ18A3-8-Z/D2
	AC	Two Wire	NO	GLJ18A3-5-J/A1	GLJ18A3-8-J/A1
			NC	GLJ18A3-5-J/A2	GLJ18A3-8-J/A2
	3 wire		NO+NC	GLJ18A3-5-J/A3	GLJ18A3-8-J/A3
Detection distance				5mm±10%	8mm±10%
Set distance				0~4mm	0~7mm
Standard detection object				iron18×18×1	iron18×18×1
Response frequency				DC:0.8kHz AC:50HZ	DC:0.8kHz AC:50HZ
Temperature				-25~+120℃	-25~+120℃

• External Dimension (Unit mm)



• Characteristic Parameters

Delay distance	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type:13mA below D type:0.8mA below A type:1.7mA below
Control output	N.P type:300 mA below D type:200mA below A type:400mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection A type: surge absorption
Ambient temperature humidity	During operation,storage: individually-30~+65(No freeze,no drew), During operation,storage: Individually35~95%RH
Insulation resistance	50 MΩ about(DC500 megameter) between charging and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging and housing
Temperature influence	Temperature range -30~+65℃, at+23℃, ±15% detection distance Temperature range -25~+60℃, at+23℃, ±10% detection distance
Voltage influence	Inside+/-15% rated supply voltage range, at rated supply voltage value; Inside +/-10% detection distance
Protection structure	IP67 ICE specification
material	Housing: Nickel plated brass; Detection surface: ABS



New high temperature resistant, high pressure, the proximity switch series over a long distance

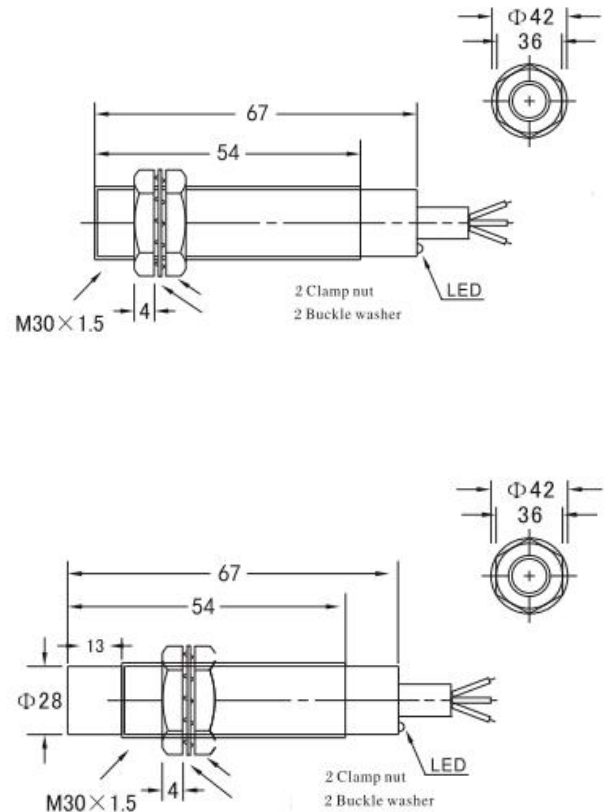
- Power supply reversal connection protection; short-circuit protection, can directly connect with PLC
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- P67 protection structure (IEC specification)
- Read the "Matters needing attention" of the Product Instruction before use
- Note: High temperature resistant products, the highest temperature of +120°C; High pressure type products, the highest pressure is 0-600bap

The housing material is stainless steel, the protection level is IP68

• Type and Specification

Dimension				M30	
Mounting way				Screen shield type	Non-screen shield type
TYPE	TYPE	NPN	NO	GLJ30A3-10-Z/N1	GLJ30A3-15-Z/N1
			NC	GLJ30A3-10-Z/N2	GLJ30A3-15-Z/N2
			NO+NC	GLJ30A3-10-Z/N3	GLJ30A3-15-Z/N3
		PNP	NO	GLJ30A3-10-Z/P1	GLJ30A3-15-Z/P1
			NC	GLJ30A3-10-Z/P2	GLJ30A3-15-Z/P2
			NO+NC	GLJ30A3-10-Z/P3	GLJ30A3-15-Z/P3
		Two Wire	NO	GLJ30A3-10-Z/D1	GLJ30A3-15-Z/D1
			NC	GLJ30A3-10-Z/D2	GLJ30A3-15-Z/D2
		AC	Two Wire	NO	GLJ30A3-10-J/A1
	NC			GLJ30A3-10-J/A2	GLJ30A3-15-J/A2
	3 wire		NO+NC	GLJ30A3-10-J/A3	GLJ30A3-15-J/A3
	Detection distance				10mm±10%
Set distance				0~8mm	0~13mm
Standard detection object				iron30×30×1	iron54×54×1
Response frequency				DC:0.5kHz AC:50HZ	DC:0.5kHz AC:50HZ
Temperature				-25~+120℃	-25~+120℃

• External Dimension (Unit mm)



• Characteristic Parameters

Delay distance	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type:13mA below D type:0.8mA below A type:1.7mA below
Control output	N.P type:300 mA below D type:200mA below A type:400mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection A type: surge absorption
Ambient temperature humidity	During operation,storage: individually-30~+65(No freeze,no drew), During operation,storage: Individually35~95%RH
Insulation resistance	50 MΩ about(DC500 megameter) between charging and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging and housing
Temperature influence	Temperature range -30~+65°C, at+23°C, ±15%detection distance Temperature range-25~+60°C, at+23°C, ±10%detection distance
Voltage influence	Inside+/-15%rated supply voltage range, at rated supply voltage value; Inside +/-10% detection distance
Protection structure	IP67 ICE specification
material	Housing: Nickel plated brass; Detection surface: ABS



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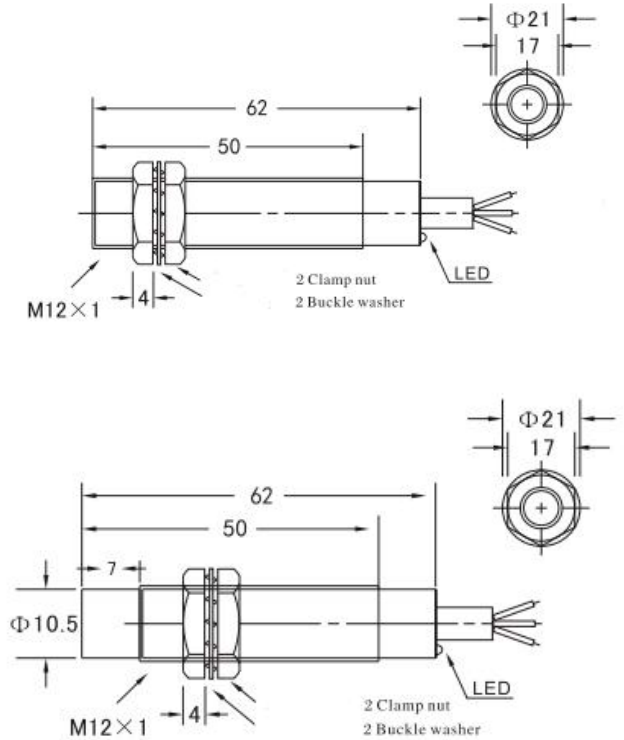
• Type and Specification

Dimension				M12	
Mounting way				Screen shield type	Non-screen shield type
TYPE	TYPE	NPN	NO	YLJ12A3-2-Z/N1	YLJ12A3-4-Z/N1
			NC	YLJ12A3-2-Z/N2	YLJ12A3-4-Z/N2
			NO+NC	YLJ12A3-2-Z/N3	YLJ12A3-4-Z/N3
		PNP	NO	YLJ12A3-2-Z/P1	YLJ12A3-4-Z/P1
			NC	YLJ12A3-2-Z/P2	YLJ12A3-4-Z/P2
			NO+NC	YLJ12A3-2-Z/P3	YLJ12A3-4-Z/P3
		Two Wire	NO	YLJ12A3-2-Z/D1	YLJ12A3-4-Z/D1
			NC	YLJ12A3-2-Z/D2	YLJ12A3-4-Z/D2
		AC	Two Wire	NO	YLJ12A3-2-J/A1
	NC			YLJ12A3-2-J/A2	YLJ12A3-4-J/A2
TYPE	3 wire		NO+NC		
Detection distance				2mm±10%	4mm±10%
Set distance				0~1.6mm	0~3.6mm
Standard detection object				iron12×12×1	iron15×15×1
Response frequency				DC:1kHz AC:50HZ	DC:1kHz AC:50HZ

• Characteristic Parameters

Delay distance	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type:13mA below D type:0.8mA below A type:1.7mA below
Control output	N.P type:300 mA below D type:200mA below A type:400mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection A type: surge absorption
Ambient temperature humidity	During operation,storage: individually-30~+65(No freeze,no drew), During operation,storage: Individually35~95%RH
Insulation resistance	50 MΩ about(DC500 megameter) between charging and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging and housing
Temperature influence	Temperature range -30~+65℃, at+23℃, ±15%detection distance Temperature range-25~+60℃, at+23℃, ±10%detection distance
Voltage influence	Inside+/-15%rated supply voltage range, at rated supply voltage value; Inside +/-10% detection distance
Protection structure	IP67 ICE specification
material	Housing: Nickel plated brass; Detection surface: ABS

• External Dimension (Unit mm)





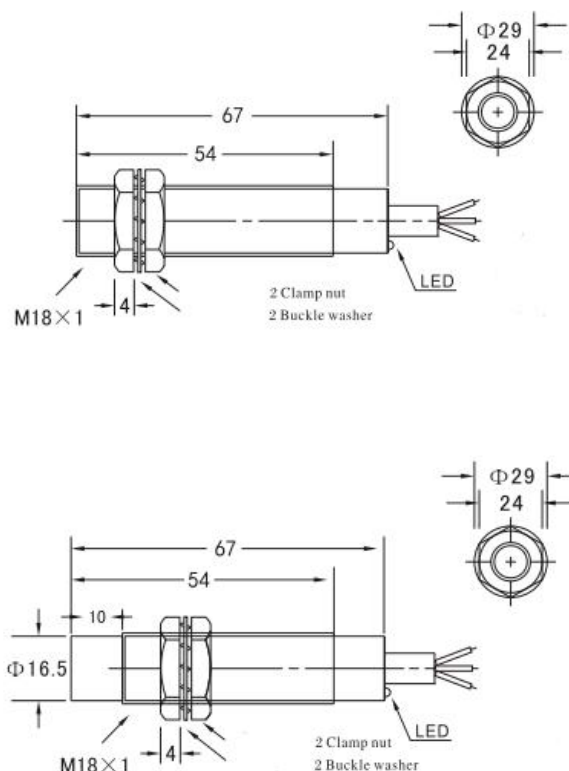
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• Type and Specification

Dimension				M18	
Mounting way				Screen shield type	Non-screen shield type
TYPE	DC	NPN	NO	YLJ18A3-5-Z/N1	YLJ18A3-8-Z/N1
			NC	YLJ18A3-5-Z/N2	YLJ18A3-8-Z/N2
			NO+NC	YLJ18A3-5-Z/N3	YLJ18A3-8-Z/N3
	PNP	NO	NO	YLJ18A3-5-Z/P1	YLJ18A3-8-Z/P1
			NC	YLJ18A3-5-Z/P2	YLJ18A3-8-Z/P2
			NO+NC	YLJ18A3-5-Z/P3	YLJ18A3-8-Z/P3
	Two Wire	NO	NO	YLJ18A3-5-Z/D1	YLJ18A3-8-Z/D1
			NC	YLJ18A3-5-Z/D2	YLJ18A3-8-Z/D2
	AC	Two Wire	NO	YLJ18A3-5-J/A1	YLJ18A3-8-J/A1
			NC	YLJ18A3-5-J/A2	YLJ18A3-8-J/A2
	3 wire	NO+NC	NO+NC	YLJ18A3-5-J/A3	YLJ18A3-8-J/A3
Detection distance				5mm±10%	8mm±10%
Set distance				0~4mm	0~7mm
Standard detection object				iron18×18×1	iron18×18×1
Response frequency				DC:0.8kHz AC:50HZ	DC:0.8kHz AC:50HZ

• External Dimension (Unit mm)



• Characteristic Parameters

Delay distance	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type:13mA below D type:0.8mA below A type:1.7mA below
Control output	N.P type:300 mA below D type:200mA below A type:400mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection A type: surge absorption
Ambient temperature humidity	During operation,storage: individually-30~+65(No freeze,no drew), During operation,storage: Individually35~95%RH
Insulation resistance	50 MΩ about(DC500 megameter) between charging and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging and housing
Temperature influence	Temperature range -30~+65℃, at+23℃, ±15%detection distance Temperature range-25~+60℃, at+23℃, ±10%detection distance
Voltage influence	Inside+/-15%rated supply voltage range, at rated supply voltage value; Inside +/-10% detection distance
Protection structure	IP67 ICE specification
material	Housing: Nickel plated brass; Detection surface: ABS



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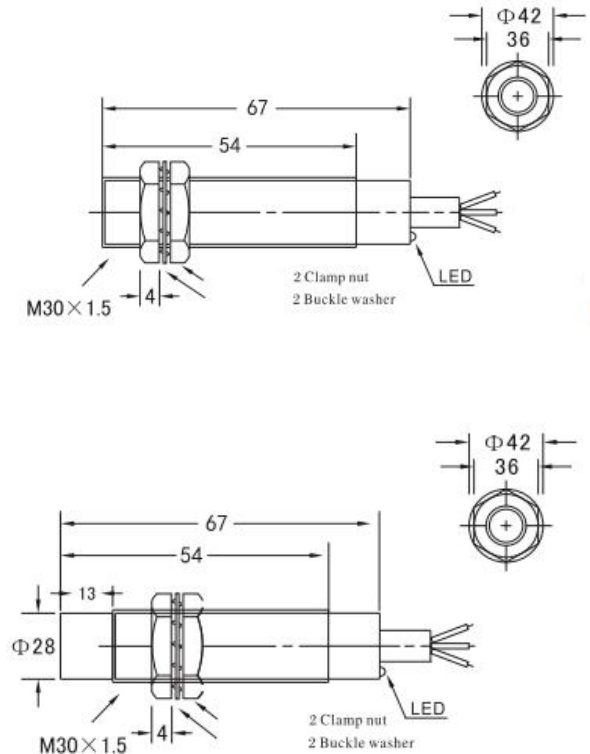
• Type and Specification

Dimension				M30	
Mounting way				Screen shield type	Non-screen shield type
TYPE	TYPE	NPN	NO	YLJ30A3-10-Z/N1	YLJ30A3-15-Z/N1
			NC	YLJ30A3-10-Z/N2	YLJ30A3-15-Z/N2
			NO+NC	YLJ30A3-10-Z/N3	YLJ30A3-15-Z/N3
		PNP	NO	YLJ30A3-10-Z/P1	YLJ30A3-15-Z/P1
			NC	YLJ30A3-10-Z/P2	YLJ30A3-15-Z/P2
			NO+NC	YLJ30A3-10-Z/P3	YLJ30A3-15-Z/P3
		Two Wire	NO	YLJ30A3-10-Z/D1	YLJ30A3-15-Z/D1
			NC	YLJ30A3-10-Z/D2	YLJ30A3-15-Z/D2
	AC	Two Wire	NO	YLJ30A3-10-J/A1	YLJ30A3-15-J/A1
			NC	YLJ30A3-10-J/A2	YLJ30A3-15-J/A2
3 wire		NO+NC	YLJ30A3-10-J/A3	YLJ30A3-15-J/A3	
Detection distance				10mm±10%	15mm±10%
Set distance				0~8mm	0~13mm
Standard detection object				iron30×30×1	iron54×54×1
Response frequency				DC:0.5kHz AC:50HZ	DC:0.5kHz AC:50HZ

• Characteristic Parameters

Delay distance	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type:13mA below D type:0.8mA below A type:1.7mA below
Control output	N.P type:300 mA below D type:200mA below A type:400mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection A type: surge absorption
Ambient temperature humidity	During operation,storage: individually-30~+65(No freeze,no drew), During operation,storage: Individually35~95%RH
Insulation resistance	50 MΩ about(DC500 megameter) between charging and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging and housing
Temperature influence	Temperature range -30~+65℃, at+23℃, ±15% detection distance Temperature range-25~+60℃, at+23℃, ±10% detection distance
Voltage influence	Inside+/-15%rated supply voltage range, at rated supply voltage value; Inside +/-10% detection distance
Protection structure	IP67 ICE specification
material	Housing: Nickel plated brass; Detection surface: ABS

• External Dimension (Unit mm)





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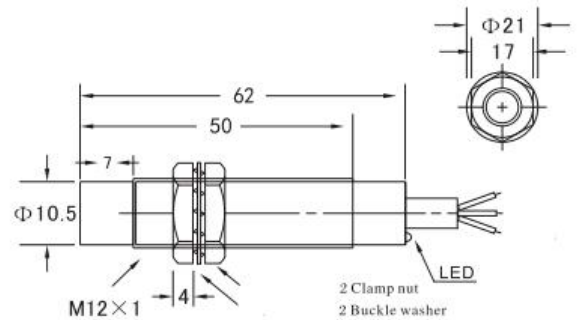
• Type and Specification

Dimension				M12
Mounting way				Non-screen shield type
TYPE	TYPE	NPN	NO	LLJ12A3-8-Z/N1
			NC	LLJ12A3-8-Z/N2
			NO+NC	LLJ12A3-8-Z/N3
		PNP	NO	LLJ12A3-8-Z/P1
			NC	LLJ12A3-8-Z/P2
			NO+NC	LLJ12A3-8-Z/P3
		Two Wire	NO	LLJ12A3-8-Z/D1
			NC	LLJ12A3-8-Z/D2
	AC	Two Wire	NO	LLJ12A3-8-J/A1
			NC	LLJ12A3-8-J/A2
TYPE	3 wire	NO+NC		
Detection distance				8mm±10%
Set distance				0~7mm
Standard detection object				iron18×18×1
Response frequency				DC:1kHZ AC:50HZ

• Characteristic Parameters

Delay distance	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type: 13mA below D type: 0.8mA below A type: 1.7mA below
Control output	N.P type: 300 mA below D type: 200mA below A type: 400mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection A type: surge absorption
Ambient temperature humidity	During operation, storage: individually -30~+65(No freeze, no dew), During operation, storage: Individually 35~95%RH
Insulation resistance	50 MΩ about (DC500 megameter) between charging and housing
Withstand voltage	AC1000V 50/60Hz 1 min between charging and housing
Temperature influence	Temperature range -30~+65℃, at +23℃, ±15% detection distance Temperature range -25~+60℃, at +23℃, ±10% detection distance
Voltage influence	Inside +/-15% rated supply voltage range, at rated supply voltage value; Inside +/-10% detection distance
Protection structure	IP67 ICE specification
material	Housing: Nickel plated brass; Detection surface: ABS

• External Dimension (Unit mm)





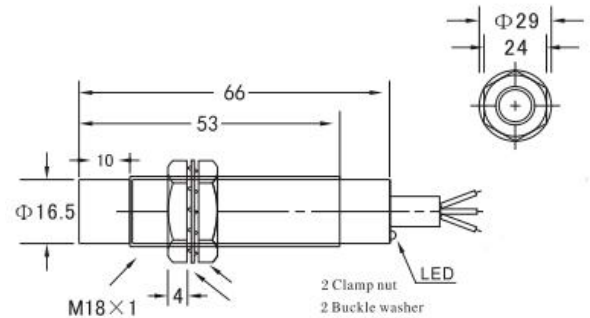
New high temperature resistant, high pressure, the proximity switch series over a long distance

- Power supply reversal connection protection; short-circuit protection, can directly connect with PLC
- Used in common places with medium environment resistance
- Red LED indicates that it's available to detect the sensor operating state
- P67 protection structure (IEC specification)
- Read the "Matters needing attention" of the Product Instruction before use
- Note: High temperature resistant products, the highest temperature of +120;
High pressure type products, the highest pressure is 0-600bap
The housing material is stainless steel, the protection level is IP68

• Type and Specification

Dimension				M18
Mounting way				Non-screen shield type
TYPE	TYPE	NPN	NO	LLJ18A3-15-Z/N1
			NC	LLJ18A3-15-Z/N2
			NO+NC	LLJ18A3-15-Z/N3
		PNP	NO	LLJ18A3-15-Z/P1
			NC	LLJ18A3-15-Z/P2
			NO+NC	LLJ18A3-15-Z/P3
		Two Wire	NO	LLJ18A3-15-Z/D1
			NC	LLJ18A3-15-Z/D2
	AC	Two Wire	NO	LLJ18A3-15-J/A1
			NC	LLJ18A3-15-J/A2
TYPE		3 wire	NO+NC	LLJ18A3-15-J/A3
Detection distance				15mm±10%
Set distance				0~13mm
Standard detection object				iron54×54×1
Response frequency				DC:0.8kHz AC:50HZ

• External Dimension (Unit mm)



• Characteristic Parameters

Delay distance	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type:13mA below D type:0.8mA below A type:1.7mA below
Control output	N.P type:300 mA below D type:200mA below A type:400mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection A type: surge absorption
Ambient temperature humidity	During operation,storage: individually-30~+65(No freeze,no drew), During operation,storage: Individually35~95%RH
Insulation resistance	50 MΩ about(DC500 megameter) between charging and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging and housing
Temperature influence	Temperature range -30~+65℃, at+23℃, ±15%detection distance Temperature range-25~+60℃, at+23℃, ±10%detection distance
Voltage influence	Inside+/-15%rated supply voltage range, at rated supply voltage value; Inside +/-10% detection distance
Protection structure	IP67 ICE specification
material	Housing: Nickel plated brass; Detection surface: ABS



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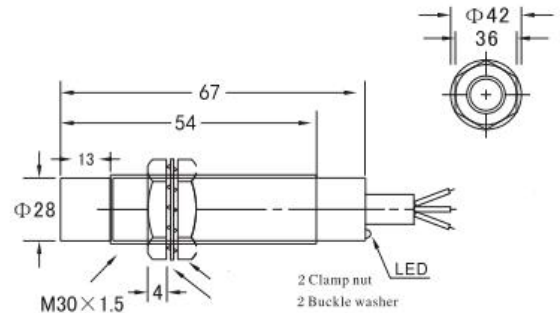
• Type and Specification

Dimension				M30
Mounting way				Non-screen shield type
TYPE	DC TYPE	NPN	NO	LLJ30A3-25-Z/N1
			NC	LLJ30A3-25-Z/N2
			NO+NC	LLJ30A3-25-Z/N3
		PNP	NO	LLJ30A3-25-Z/P1
			NC	LLJ30A3-25-Z/P2
			NO+NC	LLJ30A3-25-Z/P3
		Two Wire	NO	LLJ30A3-25-Z/D1
			NC	LLJ30A3-25-Z/D2
		AC TYPE	Two Wire	NO
	NC			LLJ30A3-25-J/A2
	3 wire		NO+NC	LLJ30A3-25-J/A3
Detection distance				25mm±10%
Set distance				0~22mm
Standard detection object				iron75×75×1mm
Response frequency				DC:0.5kHz AC:50HZ

• Characteristic Parameters

Delay distance	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type:13mA below D type:0.8mA below A type:1.7mA below
Control output	N.P type:300 mA below D type:200mA below A type:400mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection A type: surge absorption
Ambient temperature humidity	During operation,storage: individually-30~+65(No freeze,no dew), During operation,storage: Individually35~95%RH
Insulation resistance	50 MΩ about(DC500 megameter) between charging and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging and housing
Temperature influence	Temperature range -30~+65℃, at+23℃, ±15%detection distance Temperature range-25~+60℃, at+23℃, ±10%detection distance
Voltage influence	Inside+/-15%rated supply voltage range, at rated supply voltage value; Inside +/-10% detection distance
Protection structure	IP67 ICE specification
material	Housing: Nickel plated brass; Detection surface: ABS

• External Dimension (Unit mm)



Compact Capacitive / Inductive Sensor

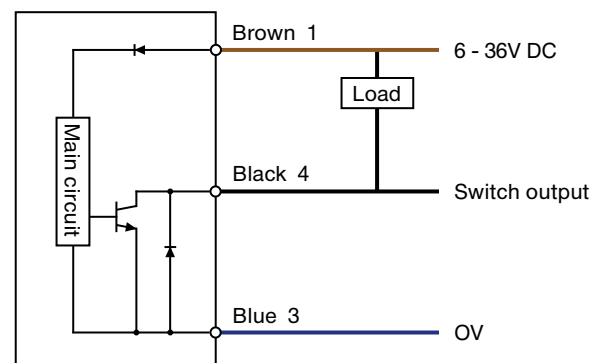
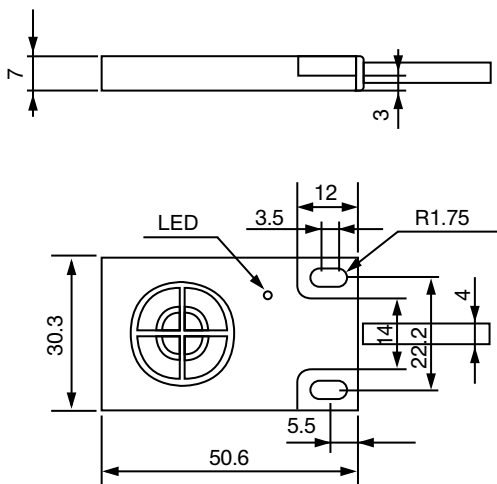
- Non contact position detection
- No wear and tear, high reliability
- Body material in plastic
- Colour grey (standard) or black
- IP67 protection
- Excellent water and oil resistance
- 7mm of thickness only for saving space
- Detection Sn10mm adjustable



Technical specifications

Model	GSCTLC3050-10N1 Capacitive	GSITL0710NO Inductive
Detection method	10mm adjustable	
Working voltage	6-36VDC (voltage fluctuation<10%)	
Residual voltage	$\leq 1.5V @ I_L=50mA$	
Output	NPN normally open	
Load current	$\leq 50mA$	
Current consumption	$\leq 10mA$	
Switch frequency	100Hz	
Repeatability	<5.0%	
Storage temperature	$-30^{\circ}C \sim +75^{\circ}C$	
Ambient temperature	When Working: $0^{\circ}C \sim +60^{\circ}C$	
Temperature drift	$\leq 20\%$	
Circuit protection	Reverse polarity protection, pulse overvoltage protection, short circuit protection	
Protection degree	IP67	
Housing material	PVC	
Connections	Cable 3x0.25 mm, 2m.	

Size structure and Circuit diagram





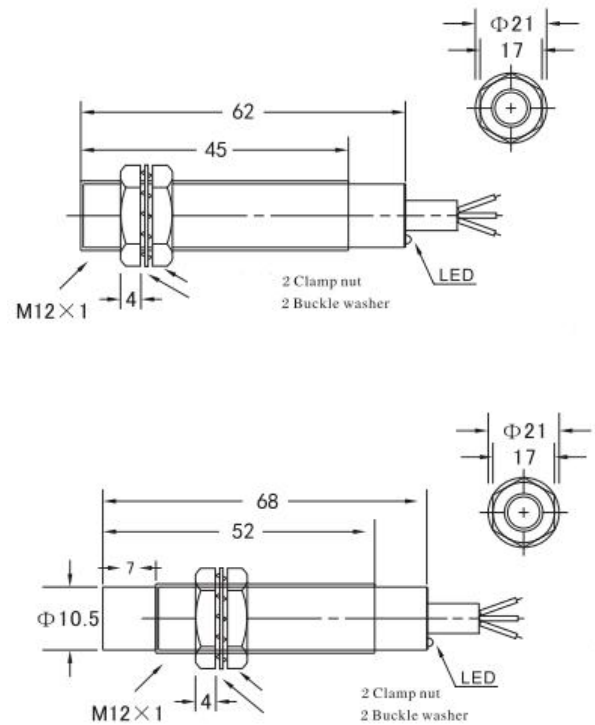
The latest series of capacitive, holzer sensor series

- Power supply reversal connection protection; short-circuit protection, can directly connect with PLC
- Used in common places with medium environment resistance
- Red LED indicates that it's available to detect the sensor operating state
- P67 protection structure (IEC specification)
- Read the "Matters needing attention" of the Product Instruction before use
- Note: High temperature resistant products, the highest temperature of +120;
High pressure type products, the highest pressure is 0-600bar
The housing material is stainless steel, the protection level is IP68

• Type and Specification

Dimension				M12×1	
Mounting way				Screen shield type	Non-screen shield type
TYPE	DC	NPN	NO	ALJC12A3-A1/N1	ALJC12A3-A/N1
			NC	ALJC12A3-A1/N2	ALJC12A3-A/N2
			NO+NC		
	DC	PNP	NO	ALJC12A3-A1/P1	ALJC12A3-A/P1
			NC	ALJC12A3-A1/P2	ALJC12A3-A/P2
			NO+NC		
	Two Wire		NO		
			NC		
	AC	Two Wire	NO		
			NC		
	3 wire		NO+NC		
Detection distance				2mm±10%	5mm±10%
Set distance				0~1.7mm	0~34mm
Standard detection object				ironSPCC50×50×1mm	ironSPCC50×50×1mm
Response frequency				DC:0.5KHZ AC:50HZ	DC:0.5KHZ AC:50HZ

• External Dimension (Unit mm)



• Characteristic Parameters

Delay distance	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type:13mA below D type:0.8mA below A type:1.7mA below
Control output	N.P type:300 mA below D type:200mA below A type:400mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection A type: surge absorption
Ambient temperature humidity	During operation,storage: individually-30~+65(No freeze,no drew), During operation,storage: Individually35~95%RH
Insulation resistance	50 MΩ about(DC500 megameter) between charging and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging and housing
Temperature influence	Temperature range -30~+65℃, at+23℃, ±15%detection distance Temperature range-25~+60℃, at+23℃, ±10%detection distance
Voltage influence	Inside+/-15%rated supply voltage range, at rated supply voltage value; Inside +/-10% detection distance
Protection structure	IP67 ICE specification
material	Housing: Nickel plated brass; Detection surface: ABS



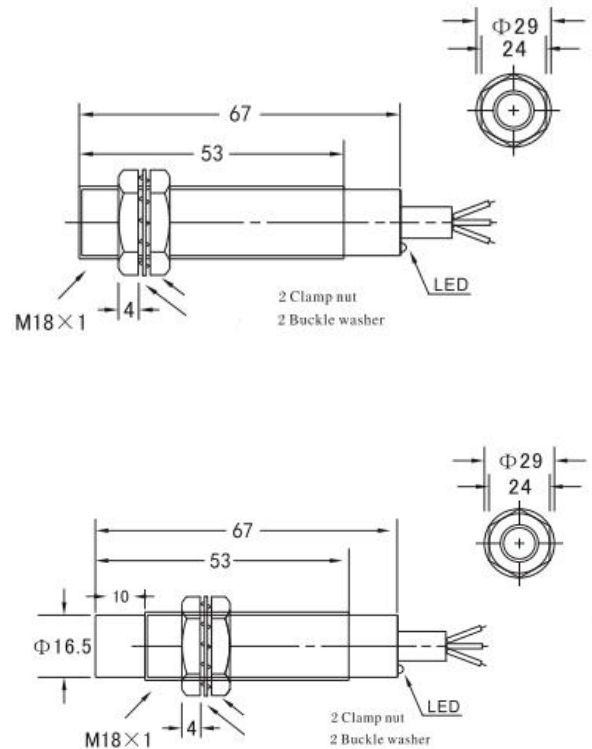
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• Type and Specification

Dimension				M18×1		
Mounting way				Screen shield type	Non-screen shield type	
TYPE	TYPE	NPN	NO	ALJC18A3-B1/N1	ALJC18A3-B/N1	
			NC	ALJC18A3-B1/N2	ALJC18A3-B/N2	
			NO+NC	ALJC18A3-B1/N3	ALJC18A3-B/N3	
		PNP	NO	ALJC18A3-B1/P1	ALJC18A3-B/P1	
			NC	ALJC18A3-B1/P2	ALJC18A3-B/P2	
			NO+NC	ALJC18A3-B1/P3	ALJC18A3-B/P3	
		Two Wire	NO			
			NC			
		AC	Two Wire	NO	ALJC18A3-B1/A1	ALJC18A3-B/A1
				NC	ALJC18A3-B1/A2	ALJC18A3-B/A2
	TYPE		3 wire	NO+NC		
	Detection distance				5mm±10%	10mm±10%
Set distance				0~4mm	0~8mm	
Standard detection object				ironSPCC50×50×1mm	ironSPCC50×50×1mm	
Response frequency				DC:0.5kHz AC:50HZ	DC:0.5kHz AC:50HZ	

• External Dimension (Unit mm)



• Characteristic Parameters

Delay distance	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type:13mA below D type:0.8mA below A type:1.7mA below
Control output	N.P type:300 mA below D type:200mA below A type:400mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection A type: surge absorption
Ambient temperature humidity	During operation,storage: individually-30~+65(No freeze,no drew), During operation,storage: Individually35~95%RH
Insulation resistance	50 MΩ about(DC500 megameter) between charging and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging and housing
Temperature influence	Temperature range -30~+65℃, at+23℃, ±15%detection distance Temperature range-25~+60℃, at+23℃, ±10%detection distance
Voltage influence	Inside+/-15%rated supply voltage range, at rated supply voltage value; Inside +/-10% detection distance
Protection structure	IP67 ICE specification
material	Housing: Nickel plated brass; Detection surface: ABS



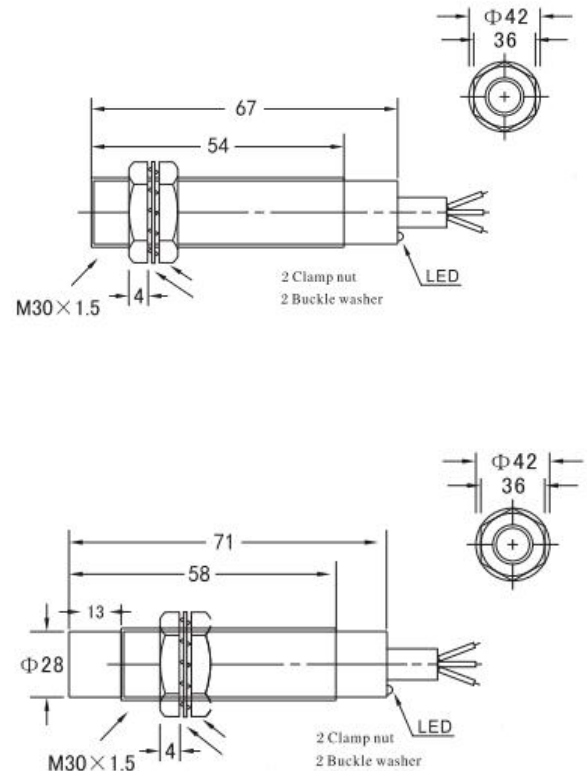
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• Type and Specification

Dimension				M30×1.5	
Mounting way				Screen shield type	Non-screen shield type
TYPE	DC TYPE	NPN	NO	ALJC30A3-10-.N1	ALJC30A3-H/N1
			NC	ALJC30A3-10/N2	ALJC30A3-H/N2
			NO+NC	ALJC30A3-10/N3	ALJC30A3-H/N3
		PNP	NO	ALJC30A3-10/P1	ALJC30A3-H/P1
			NC	ALJC30A3-10/P2	ALJC30A3-H/P2
			NO+NC	ALJC30A3-10/P3	ALJC30A3-H/P3
		Two Wire	NO		
			NC		
	AC TYPE	Two Wire	NO	ALJC30A3-10/A1	ALJC30A3-H/A1
			NC	ALJC30A3-10/A2	ALJC30A3-H/A2
3 wire		NO+NC			
Detection distance				10mm±10%	20mm±10%
Set distance				0~8mm	0~18mm
Standard detection object				ironSPCC50×50×1mm	ironSPCC50×50×1mm
Response frequency				DC:0.5kHz AC:50HZ	DC:0.5kHz AC:50HZ

• External Dimension (Unit mm)



• Characteristic Parameters

Delay distance	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type:13mA below D type:0.8mA below A type:1.7mA below
Control output	N.P type:300 mA below D type:200mA below A type:400mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection A type: surge absorption
Ambient temperature humidity	During operation,storage: individually-30~+65(No freeze,no drew), During operation,storage: Individually35~95%RH
Insulation resistance	50 MΩ about(DC500 megameter) between charging and housing
Withstand voltage	AC1000V50/60Hz 1 min between charging and housing
Temperature influence	Temperature range -30~+65℃, at+23℃, ±15%detection distance Temperature range-25~+60℃, at+23℃, ±10%detection distance
Voltage influence	Inside+/-15%rated supply voltage range, at rated supply voltage value; Inside +/-10% detection distance
Protection structure	IP67 ICE specification
material	Housing: Nickel plated brass; Detection surface: ABS



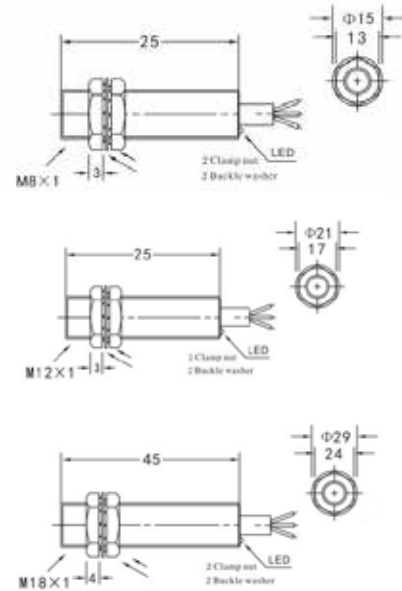
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The housing material is stainless steel, the protection level is IP68

• Type and Specification

Dimension				M8×1×25	M12×1×25	M18×1×35
Mounting way				Screen shield type	Screen shield type	Screen shield type
TYPE	DC TYPE	NPN	NO	ANJK-5001C	ANJK-5002C	ANJK-5003C
			NC	ANJK-5001D	ANJK-5002D	ANJK-5003D
			NO+NC		ANJK-5002CD	ANJK-5003CD
		PNP	NO	ANJK-5001A	ANJK-5002A	ANJK-5003A
			NC	ANJK-5001B	ANJK-5002B	ANJK-5003B
			NO+NC		ANJK-5002AB	ANJK-5003AB
Detection distance				10mm±10%	10mm±10%	10mm±10%
Set distance				0-8mm	0-8mm	0-8mm
Standard detection object				Φ8×2mm magnet	Φ12×2mm magnet	Φ18×2mm magnet
Response frequency				1kHz	1kHz	1kHz

• External Dimension (Unit mm)



• Characteristic Parameters

Delay distance:	10% below of the detection distance
Detection object	Magnetic metal (the detection distance decreases when it is non-magnetic metal)
Supply voltage	DC type: DC12-24V(6-36V) Impulse(p-p) 10% below Ac type: AC110-220V (36-250V) 50/60Hz
Consumption current	N.P type:13mA below D type:0.8mA below A type:1.7mA below
Control output	N.P type:300 mA below D type:200mA below A type:400mA below
Loop protection	N.P.D type: reversal connection protection, surge absorption, load short-circuit protection A type: surge absorption
Ambient temperature humidity	During operation,storage: individually-30~+65(No freeze,no drew), During operation,storage: Individually35~95%RH
Insulation resistance	50 MΩ about(DC500 megameter) between charging and housing
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Voltage influence	Inside+/-15%rated supply voltage range, at rated supply voltage value; Inside +/-10% detection distance
Protection structure	IP67 ICE specification
material	Housing: Nickel plated brass; Detection surface: ABS

Magnetic type approach switch series



- Sensors can be mounted in the metal
- The parallel installation of the sensor hasn't any demand
- Sensor induction surface can be made of metal
- Sensors can undertake detection through metal
- Sensors can have larger induction distance and smaller dimension
- IP67 protection structure(IEC specification)

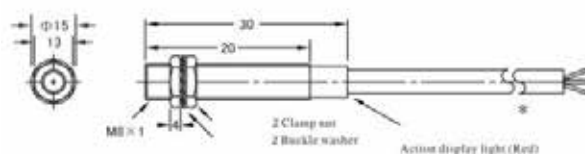
• Type and Specification

Dimension				M5×1×30
Type	Magnetic type	Two-wire	NO	LG5A3-10-J/EZ
			NC	
Supply voltage				LG5A3-10-J/DZ
Continuous current				DC/AC:5-220V
Illustration				50mA

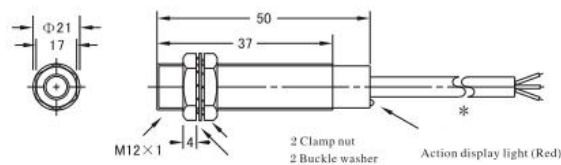
• External Dimension (Unit mm)



Dimension				M8×1×30
Type	Magnetic type	Two-wire	NO	LG8A3-10-J/EZ
			NC	
Supply voltage				LG8A3-10-J/DZ
Continuous current				DC/AC:5-220V
Illustration				50mA



Dimension				M12×1×50
Type	Magnetic type	Two-wire	NO	LG12A3-10-J/EZ
			NC	
Supply voltage				LG12A3-10-J/DZ
Continuous current				DC/AC:5-220V
Illustration				200mA





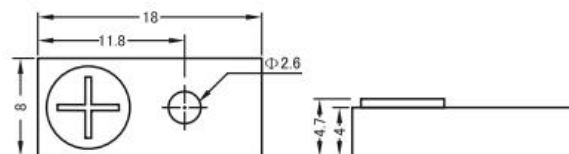
Magnetic type approach switch series

- Sensors can be mounted in the metal
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- Sensors can undertake detection through metal
- Sensors can have larger induction distance and smaller dimension
- IP67 protection structure(IEC specification)

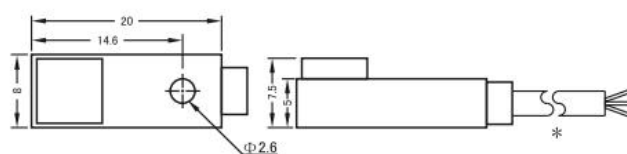
• Type and Specification

Dimension				4.7×8×18
Type	Magnetic type	Two-wire	NO	SD-1
			NC	
Supply voltage				
Continuous current				DC/AC:5-220V
Illustration				50mA

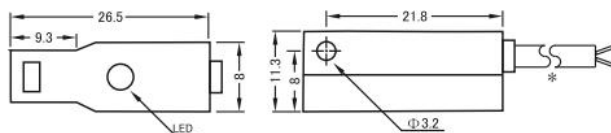
• External Dimension (Unit mm)



Dimension				7.5×8×23
Type	Magnetic type	Two-wire	NO	SD-2
			NC	
Supply voltage				
Continuous current				DC/AC:5-220V
Illustration				50mA



Dimension				8×11×26
Type	Magnetic type	Two-wire	NO	D-C73
			NC	
Supply voltage				
Continuous current				DC/AC:5-220V
Illustration				100mA





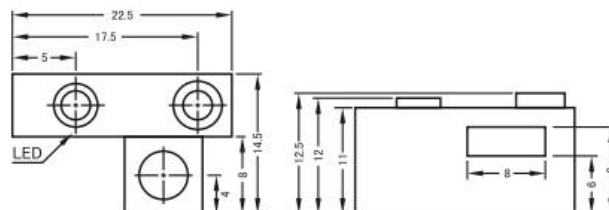
Magnetic type approach switch series

- Sensors can be mounted in the metal
- The parallel installation of the sensor hasn't any demand
- Sensor induction surface can be made of metal
- Sensors can undertake detection through metal
- Sensors can have larger induction distance and smaller dimension
- IP67 protection structure(IEC specification)

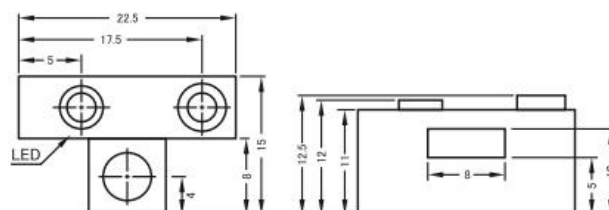
• Type and Specification

Dimension				6.5×11×22.5
Type	Magnetic type	Two-wire	NO	D-A73
			NC	
Supply voltage				
Continuous current				DC/AC:5-220V
Illustration				100mA

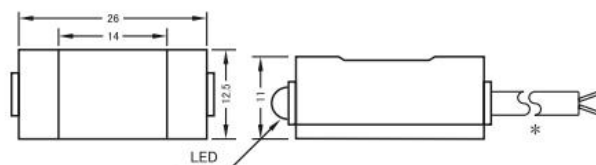
• External Dimension (Unit mm)



Dimension				6.5×11×22.5
Type	Magnetic type	Two-wire	NO	CS1-J
			NC	
Supply voltage				
Continuous current				DC/AC:5-220V
Illustration				100mA



Dimension				11×12×28
Type	Magnetic type	Two-wire	NO	CS1-U
			NC	
Supply voltage				
Continuous current				DC/AC:5-220V
Illustration				100mA





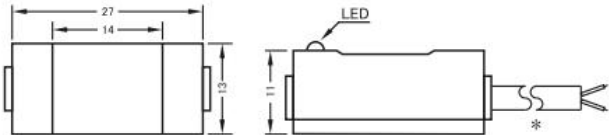
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- Sensors can undertake detection through metal
- Sensors can have larger induction distance and smaller dimension
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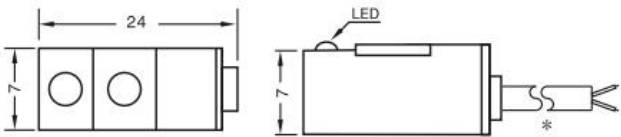
• Type and Specification

Dimension				11×13×28
Type	Magnetic type	Two-wire	NO	CS1-F
			NC	
Supply voltage				
Continuous current				DC/AC:5-220V
Illustration				100mA

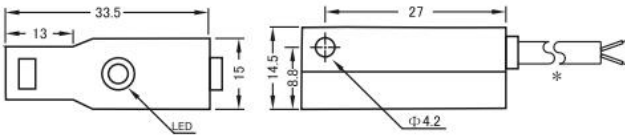
• External Dimension (Unit mm)



Dimension				15×14×33.5
Type	Magnetic type	Two-wire	NO	CS1-S
			NC	
Supply voltage				
Continuous current				DC/AC:5-220V
Illustration				100mA



Dimension				10×20×40
Type	Magnetic type	Two-wire	NO	D-B54
			NC	
Supply voltage				
Continuous current				DC/AC:5-220V
Illustration				100mA





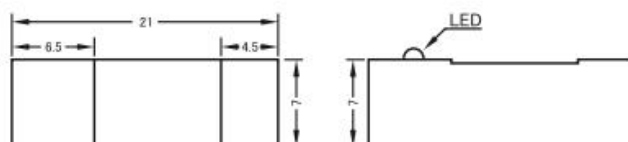
Magnetic type approach switch series

- Sensors can be mounted in the metal
- The parallel installation of the sensor hasn't any demand
- Sensor induction surface can be made of metal
- Sensors can undertake detection through metal
- Sensors can have larger induction distance and smaller dimension
- IP67 protection structure(IEC specification)

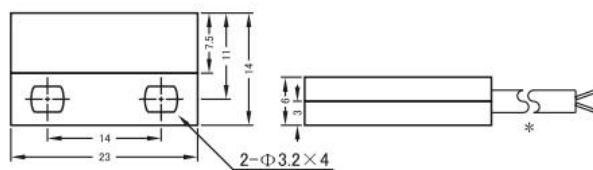
• Type and Specification

Dimension				7.5×7×22
Type	Magnetic type	Two-wire	NO	CS4H
			NC	
Supply voltage				
Continuous current				DC/AC:5-220V
Illustration				100mA

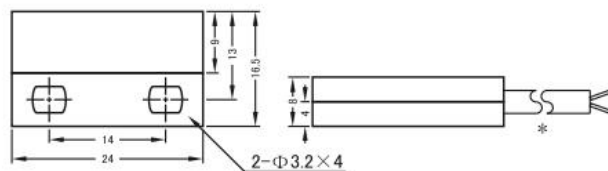
• External Dimension (Unit mm)



Dimension				6×14×23
Type	Magnetic type	Two-wire	NO	MS-1
			NC	
Supply voltage				
Continuous current				DC/AC:5-220V
Illustration				100mA



Dimension				8×16.5×24
Type	Magnetic type	Two-wire	NO	MS-2
			NC	
Supply voltage				
Continuous current				DC/AC:5-220V
Illustration				100mA



Magnetic type approach switch series

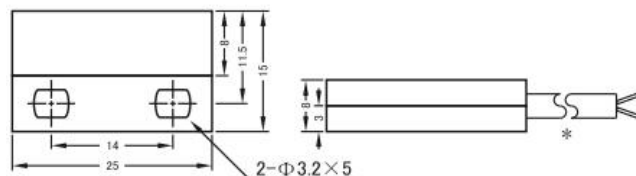


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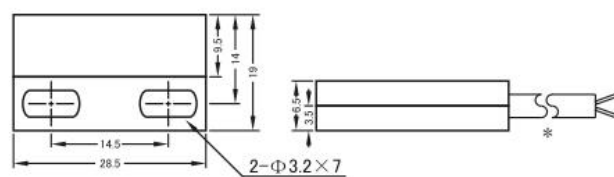
• Type and Specification

Dimension				8×15×25
Type	Magnetic type	Two-wire	NO	MS-3
			NC	
Supply voltage				
Continuous current				DC/AC:5-220V
Illustration				100mA

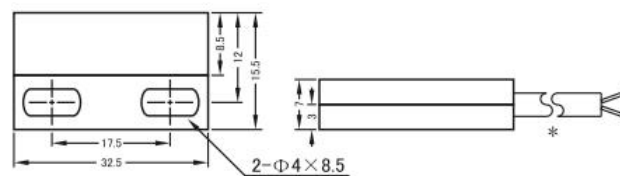
• External Dimension (Unit mm)



Dimension				6.5×19×28.5
Type	Magnetic type	Two-wire	NO	MS-4
			NC	
Supply voltage				
Continuous current				DC/AC:5-220V
Illustration				100mA



Dimension				7×14.8×33
Type	Magnetic type	Two-wire	NO	MS-5
			NC	
Supply voltage				
Continuous current				DC/AC:5-220V
Illustration				100mA



Magnetic type approach switch series

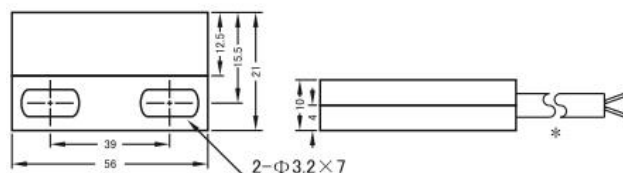


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- Sensors can have larger induction distance and smaller dimension
- IP67 protection structure(IEC specification)

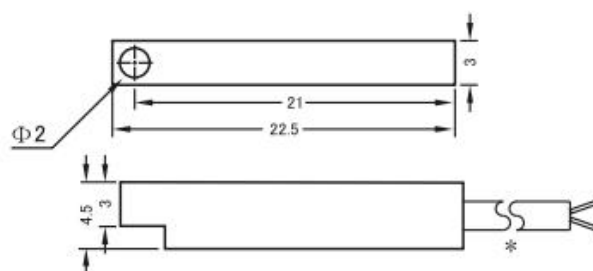
• Type and Specification

Dimension				10×21×56
Type	Magnetic type	Two-wire	NO	MS-6
			NC	
Supply voltage				
Continuous current				DC/AC:5-220V
Illustration				100mA

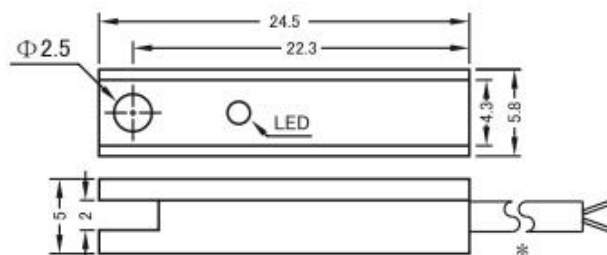
• External Dimension (Unit mm)



Dimension				3×4.5×22.5
Type	Magnetic type	Two-wire	NO	SD-3
			NC	
Supply voltage				
Continuous current				DC/AC:5-220V
Illustration				100mA



Dimension				5.8×5×24.5
Type	Magnetic type	Two-wire	NO	SD-4
			NC	
Supply voltage				
Continuous current				DC/AC:5-220V
Illustration				100mA



Magnetic type approach switch series

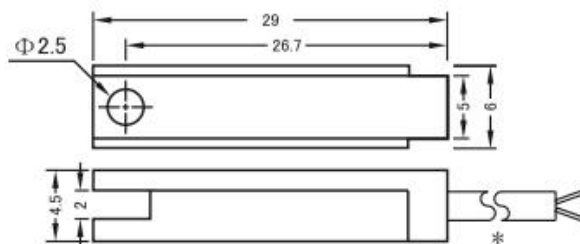


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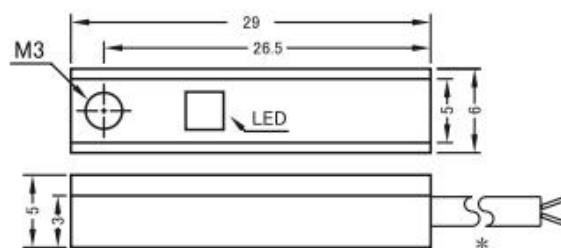
• Type and Specification

Dimension				5.8×5×29
Type	Magnetic type	Two-wire	NO	SD-5
			NC	
Supply voltage				
Continuous current				DC/AC:5-220V
Illustration				100mA

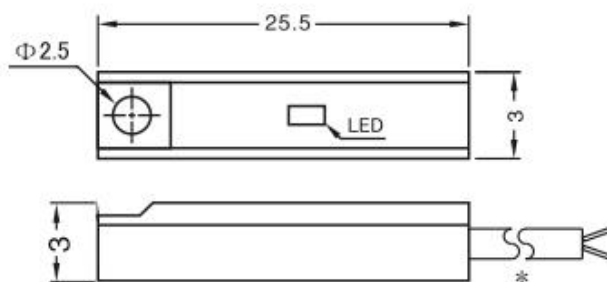
• External Dimension (Unit mm)



Dimension				6×5×29
Type	Magnetic type	Two-wire	NO	D-Z73
			NC	
Supply voltage				
Continuous current				DC/AC:5-220V
Illustration				100mA



Dimension				12×36×36
Type	Magnetic type	Two-wire	NO	D-A93
			NC	
Supply voltage				
Continuous current				DC/AC:5-220V
Illustration				100mA



Magnetic type approach switch series

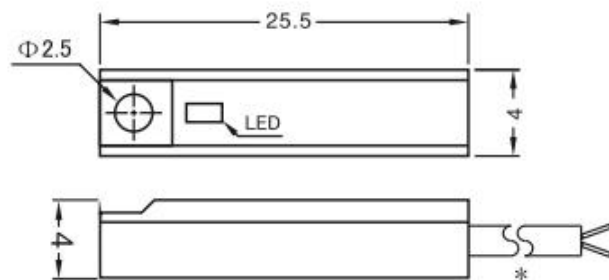


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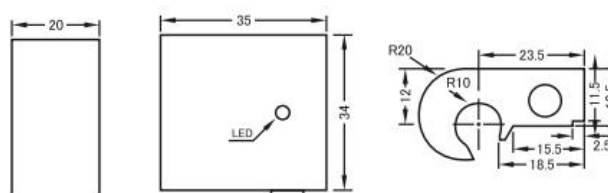
• Type and Specification

Dimension				10×34×40
Type	Magnetic type	Two-wire	NO	CS1-G
			NC	
Supply voltage				
Continuous current				DC/AC:5-220V
Illustration				100mA

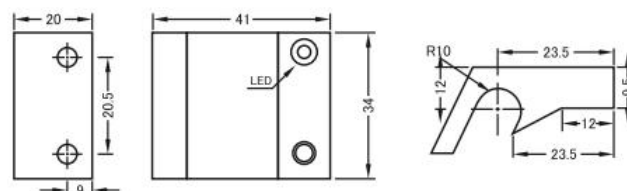
• External Dimension (Unit mm)



Dimension				28×80×94.5
Type	Magnetic type	Two-wire	NO	SG-1
			NC	
Supply voltage				
Continuous current				DC/AC:5-220V
Illustration				100mA



Dimension				13×19.5×43
Type	Magnetic type	Two-wire	NO	SG-2
			NC	
Supply voltage				
Continuous current				DC/AC:5-220V
Illustration				100mA





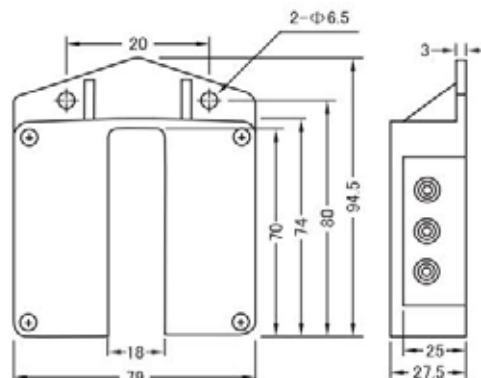
Magnetic type approach switch series

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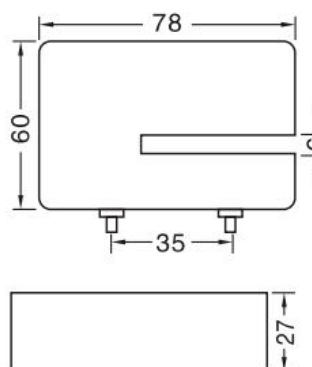
• Type and Specification

Dimension				28×80×94.5
Type	Magnetic type	Two-wire	NO	
			NC	
Supply voltage				YG-1
Continuous current				DC/AC:5-220V
Illustration				300mA

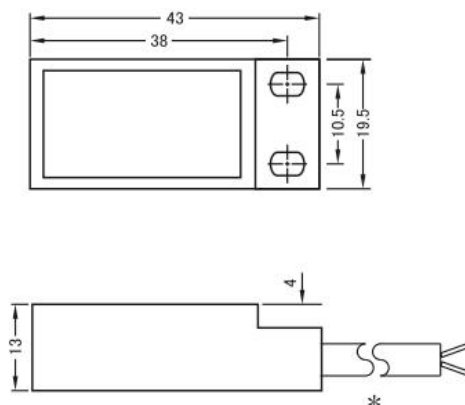
• External Dimension (Unit mm)



Dimension				78×60×27
Type	Magnetic type	Two-wire	NO	
			NC	
Supply voltage				MS-01
Continuous current				DC/AC:5-220V
Illustration				300mA



Dimension				13×19.5×43
Type	Magnetic type	Two-wire	NO	LJC1-3/24
			NC	
Supply voltage				
Continuous current				DC/AC:5-220V
Illustration				100mA



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