

Company introduction

Wenzhou Gtric Technology Co., Ltd. is located in Yueqing IoT sensors Park, which covers 5,000 square meters, with over 100 employees. We are focuses on intelligent manufacturing and industrial automation, our main businesses are sensors, encoders, button switch, coupling, expansion set and other industrial automation products, providing standard and individual products and solutions for customers.

Our products cover over 20 series, 1000specificatison, which have passed CCC, CE, UL, ISO9001 certification as well as EU RoHS Environmental Directives.

Based on our technical advantages, Gtric can provide industrial automation solution according to customers' requirements.

**We support OEM & ODM, if you need
please feel free to contact us**

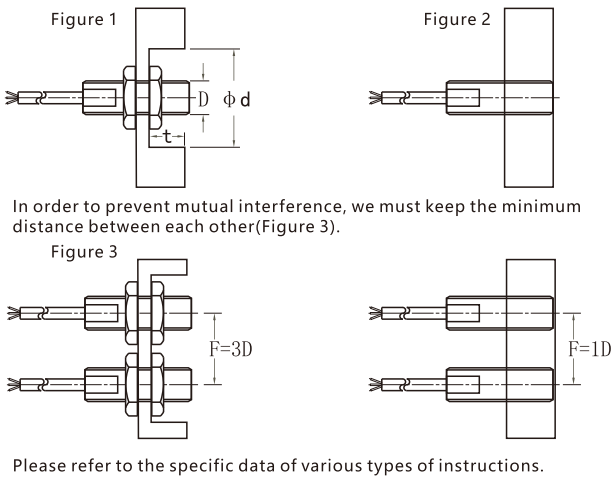


Installation conditions

Non shielded proximity switches can achieve maximum operating distance (with the diameter of the relevant); but in order to prevent the switch around the metal impact on the switch, the sensor head must be in a certain gap with the surrounding metal (Figure 1).

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

The magnetic sensor is not affected by the conditions of installation, as long as the material around the material is not magnetized.



Output mode and electrical characteristics

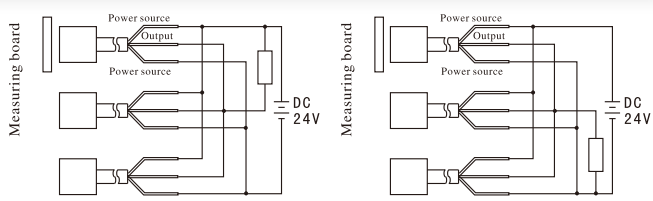
DC 2-wire system NO or NC The load must be connected in series in the sensor to work, there is a polarity and short circuit protection function; in the open circuit state, there is a very small leakage current; in the closed circuit, the switching element has a smaller voltage drop.			Detection object Load Indicator detected	<table><tr><td>Yes</td><td>NO</td><td>NC</td></tr><tr><td>No</td><td></td><td></td></tr><tr><td>Action</td><td></td><td></td></tr><tr><td>Reset</td><td></td><td></td></tr><tr><td>ON</td><td></td><td></td></tr><tr><td>OFF</td><td></td><td></td></tr></table>	Yes	NO	NC	No			Action			Reset			ON			OFF		
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DC 3-wire system(N,P type) NO or NC These switches are connected to the load and power supply separately; the polarity, short circuit and overload protection function, and the residual current can be ignored.			Detection object Load Indicator detected	<table><tr><td>Yes</td><td>NO</td><td>NC</td></tr><tr><td>No</td><td></td><td></td></tr><tr><td>Action</td><td></td><td></td></tr><tr><td>Reset</td><td></td><td></td></tr><tr><td>ON</td><td></td><td></td></tr><tr><td>OFF</td><td></td><td></td></tr></table>	Yes	NO	NC	No			Action			Reset			ON			OFF		
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AC 2-wire system NO or NC The load must be connected in series in the sensor, in the closed circuit, the switching element has a smaller voltage drop.			Detection object Load Indicator detected	<table><tr><td>Yes</td><td>NO</td><td>NC</td></tr><tr><td>No</td><td></td><td></td></tr><tr><td>Action</td><td></td><td></td></tr><tr><td>Reset</td><td></td><td></td></tr><tr><td>ON</td><td></td><td></td></tr><tr><td>OFF</td><td></td><td></td></tr></table>	Yes	NO	NC	No			Action			Reset			ON			OFF		
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DC 4-wire system (NPN,PNP Type) NO+NC Sensor switches can provide 2 groups of output NO+NC			Detection object Load Indicator detected	<table><tr><td>Yes</td><td>NO</td><td>NC</td></tr><tr><td>No</td><td></td><td></td></tr><tr><td>Action</td><td></td><td></td></tr><tr><td>Reset</td><td></td><td></td></tr><tr><td>ON</td><td></td><td></td></tr><tr><td>OFF</td><td></td><td></td></tr></table>	Yes	NO	NC	No			Action			Reset			ON			OFF		
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NO+NC Ac/Dc five wire (relay output) NO + NC These switches can provide to often open, closed two group relay output.			Detection object Load Indicator detected	<table><tr><td>Yes</td><td>NO</td><td>NC</td></tr><tr><td>No</td><td></td><td></td></tr><tr><td>Action</td><td></td><td></td></tr><tr><td>Reset</td><td></td><td></td></tr><tr><td>ON</td><td></td><td></td></tr><tr><td>OFF</td><td></td><td></td></tr></table>	Yes	NO	NC	No			Action			Reset			ON			OFF		
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Sensor characteristics

GTRIC®

✧ Series and parallel connection of proximity switch

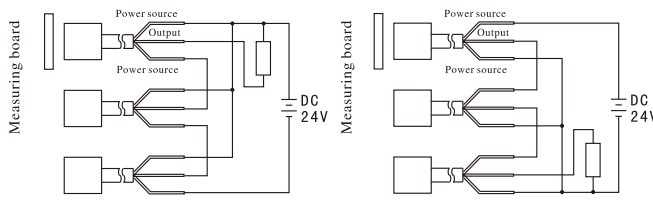
OR connection (NPN and PNP types can be used mixed) series When the proximity switch is OR connected, the action of any proximity switch can drive load. The quantity of the proximity switches depends on the sum of leakage current. More connections are available given that it doesn't affect the loading action.



OR connection of NPN output OR connection of PNP output

✧ AND connection (series)

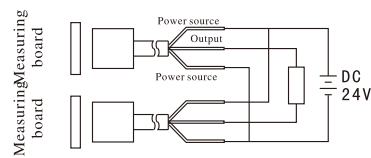
When the proximity switch is AND connected, the action of all proximity switches can drive load. The quantity of the proximity switches depends on the sum of saturation voltage. More connections are available given that it doesn't affect the supply voltage of the proximity switch. The response frequency of the proximity switch is the accumulation of initialized reset of various proximity switch.



NPN connection of AND output PNP connection of AND output

✧ Series and parallel connection of proximity switch

AND connection (series) NPN, PNP mixed-use



Promixity switches matters need attention

✧ Cautions when connected or disconnected with the power supply

When connecting the proximity switch with the counter and the programmable controller, there isn't any problem because of the built-in initialized reset circuit. Please avoid the conditions mentioned below

The detection object lies around the detection distance of the proximity switch; For DC voltage type and DC switch type, when power supply is turned on (turned off), time constant rises (drops) greatly; There is self-excitation and noise when the AC switch type proximity switch is power-on (off)

✧ Capacitor, light load

The proximity switch can't have the capacitor or light that has larger jumping current as the load directly connected to be connected through a relay or series connected with a current-limiting resistance. The peak current set by current-limiting resistance R is within the load current of the proximity switch; Make sure to connect through load.

Supply voltage V

Peak load current value of proximity switch mA

≤R(KΩ)

Allowable loss of resistance R (W)

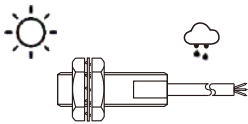
Supply voltage V²

≤R(KΩ)

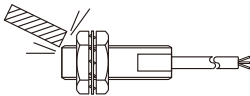
× 2 times above

✧ Installation notice of proximity switch

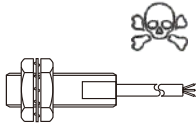
Don't use it in the open air, and use a protective cover, if necessary.



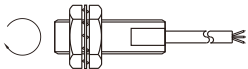
Don't knock the detection surface with hard objects and use a protective cover, if necessary.



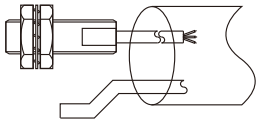
Don't use it in the environment with corrosive objects.



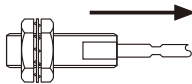
Don't fasten it with a big force, but fasten it with spring washer



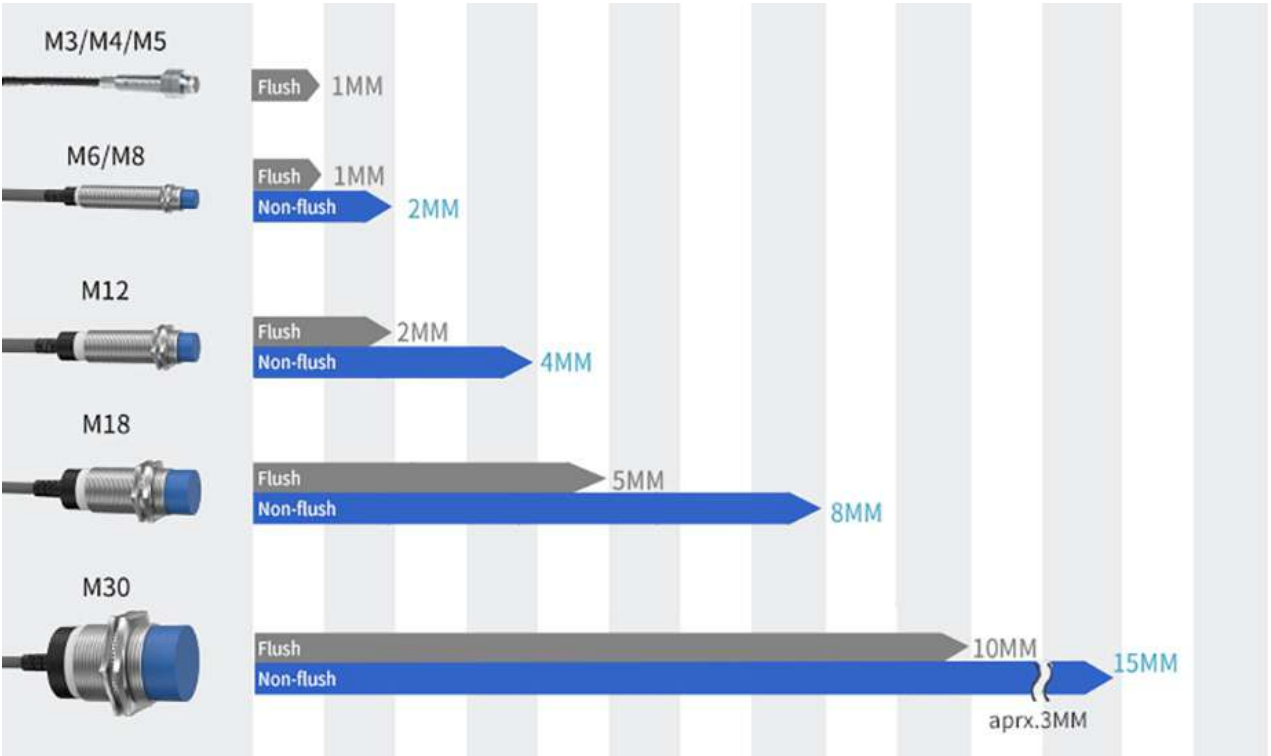
The proximity switch must be equipped individually with metal flexible pipe, and don't make it with the electric line and power line in the same metal flexible pipe



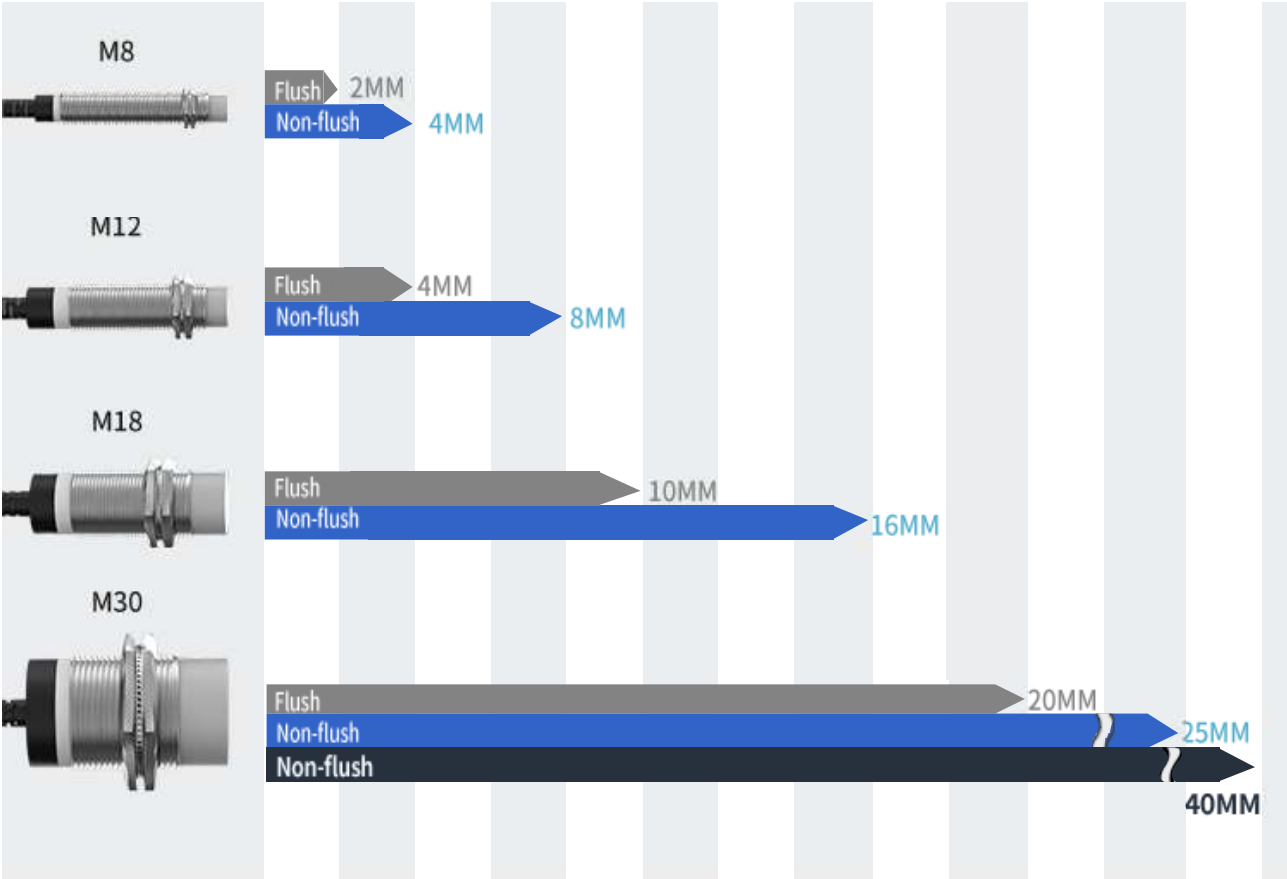
Don't stretch the power line of the proximity switch with a big force.



LR Series Inductive Proximity Sensor Sensing Distance Diagram

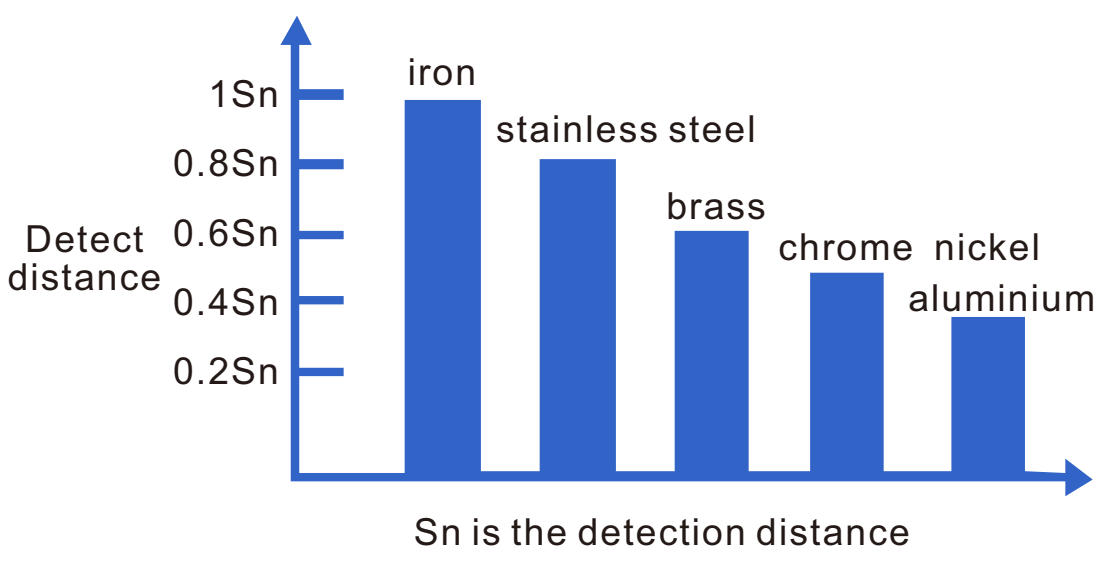


FR Series inductive proximity sensor sensing Distance Diagram



Matters needing attention

When detecting objects of different materials, the actual sensing distance of the proximity switch is different, as shown in the figure below



- ※ Overload short circuit, reverse polarity protection, surge absorption IP67 protection
- ※ It has the advantages of water resistance, oil resistance and high temperature resistance.



Selection Guide



L	R	03	01	N	1		
①	②	③	④	⑤	⑥	⑦	⑧

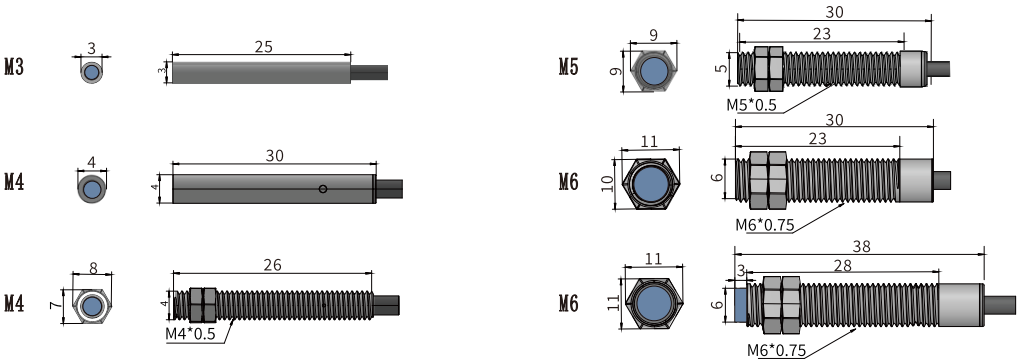
- ①**Model**:L: Inductive、C: Capacitive、M: Reed Magnetic Switch、H: Hall switch、F: long Distance Inductive
- ②**External structure**:R: Cylindrical、F: Square Type
- ③**DIA. of sensing side**:Number: DIA. of sensing side (unit:mm)
- ④**Sensing distance**:Number: Sensing distance (unit:mm)
- ⑤**Power supply**:N: NPN 10-30VDC 3-wire、 P: PNP 10-30VDC 3-wire、 D: 10-30VDC 2-wire
A: 90-250VAC 2-wire
- ⑥**Control output**:1: Normally open、 2: Normally closed
- ⑦**Connection**:No mark: Cable type、 P: Connector type、 WP: Cable connector type
- ⑧**Tail line length**:No mark:2M Cable number: (unit m)

Specifications



Specifications							
Model	DC3-wireNPN.NO	LR03-01N1	LR04-01N1	LR04L-01N1	LR05-01N1	LR06-01N1	LR06-02N1
	DC3-wireNPN.NC	LR03-01N2	LR04-01N2	LR04L-01N2	LR05-01N2	LR06-01N2	LR06-02N2
	DC3-wirePNP.NO	LR03-01P1	LR04-01P1	LR04L-01P1	LR05-01P1	LR06-01P1	LR06-02P1
	DC3-wirePNP.NC	LR03-01P2	LR04-01P2	LR04L-01P2	LR05-01P2	LR06-01P2	LR06-02P2
	DC2-wireNO	/	/	/	LR05-01D1	LR06-01D1	LR06-02D1
	DC2-wireNC	/	/	/	LR05-01D2	LR06-01D2	LR06-02D2
	AC2-wireNO	/	/	/	/	/	/
	AC2-wireNC	/	/	/	/	/	/
Mounting	Flush	Flush	Flush	Flush	Flush	Flush	Non-Flush
Sensing distance	1MM±10%	1MM±10%	1MM±10%	1MM±10%	1MM±10%	1MM±10%	2MM±10%
Setting distance(Sa)	0-1MM	0-1MM	0-1MM	0-1MM	0-1MM	0-1MM	0-2MM
Hysteresis	≤10%						
Standard sensing target	5*5*1MM(iron)						
Supply voltage	DC:10-30VDC						
Leakage current	≤0.6mA						
Response frequency(F)	500Hz(DC)						
Consunption current	DC3-wireNPNPNP:≤10mA;DC2-wire:S3mA						
Load current	200mA						
Voltage drop	≤2.5V						
Circuit protection	Short-circuit,overload,reversepolarityprotection						
Output indicator	GreenLED						
Ambient temperature	-20~+70℃						
Shock	500m/s(50G)ineachXYZdirectionfor3times						
Vibration	1mm amplitudeatfre quenc y10~55Hz(for1min) ineachX.Y.Zdirection for 2hours						
Protection degree	IP67(IECstandards)						
Connection	2mPVCcable						
Meterial	Nickel-copperalloy						
Sensing side	PBT						

Dimension



- ※ Overload short circuit, reverse polarity protection, surge absorption IP67 protection
- ※ It has the advantages of waterproof, oil resistance and high temperature resistance. 360°full surround green LED display
- ※ Working status, more intuitive and obvious



Selection Guide



L	R	12	04	N	1		
①	②	③	④	⑤	⑥	⑦	⑧

①**Model**:L: Inductive、C: Capacitive、M: Reed Magnetic Switch、H: Hall switch、F: long Distance Inductive

②**External structure**:R: Cylindrical、F: Square Type

③**DIA. of sensing side**:Number: DIA. of sensing side (unit:mm)

④**Sensing distance**:Number: Sensing distance (unit:mm)

⑤**Power supply**:N: NPN 10-30VDC 3-wire、P: PNP 10-30VDC 3-wire、D: 10-30VDC 2-wire
A: 90-250VAC 2-wire

⑥**Control output**:1: Normally open、2: Normally closed

⑦**Connection**:No mark: Cable type、P: Connector type、WP: Cable connector type

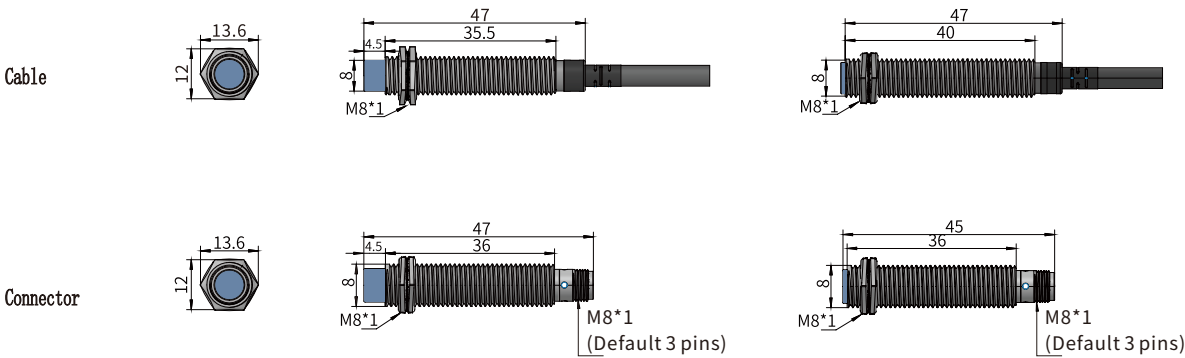
⑧**Tail line length**:No mark:2M Cable number: (unit m)

Specifications



Specifications					
Model	DC 3-wire NPN.NO	LR08-01N1	LR08-02N1	LR08-01N1-P	LR08-02N1-P
	DC 3-wire NPN.NC	LR08-01N2	LR08-02N2	LR08-01N2-P	LR08-02N2-P
	DC 3-wire PNP.NO	LR08-01P1	LR08-02P1	LR08-01P1-P	LR08-02P1-P
	DC 3-wire PNP.NC	LR08-01P2	LR08-02P2	LR08-01P2-P	LR08-02P2-P
	DC 2-wire NO	LR08-01D1	LR08-02D1	LR08-01D1-P	LR08-02D1-P
	DC 2-wire NC	LR08-01D2	LR08-02D2	LR08-01D2-P	LR08-02D2-P
	AC 2-wire NO	LR08-01A1	LR08-02A1	LR08-01A1-P	LR08-02A1-P
	AC 2-wire NC	LR08-01A2	LR08-02A2	LR08-01A2-P	LR08-02A2-P
Mounting		Flush	Non-Flush	Flush	Non-Flush
Sensing distance		1MM±10%	2MM±10%	1MM±10%	2MM±10%
Setting distance(Sa)		0-1MM	0-2MM	0-1MM	0-2MM
Hysteresis		≤10%			
Standard sensing target		12*12*1MM (iron)			
Supply voltage		DC:10-30VDC;AC:90-250V			
Leakage current		≤0.6mA			
Response frequency(F)		500Hz (DC) 25Hz (AC)			
Consunption current		DC3-wireNPNPNP:<10mA;DC2-wire:<3mA;AC2-wire:<2mA			
Load current		200mA			
Voltage drop		≤2.5V			
Circuit protection		Short-circuit,overload,reverse polarity protection			
Output indicator		Green LED			
Ambient temperature		-20~+70℃			
Shock		500m/s(50G) in each X,Y,Z direction for 3 times			
Vibration		1mm amplitudeatfre quenc y10~55Hz(for1min) ineachX.Y Zdirection for 2hours			
Protection degree		IP67(IEC standards)			
Connection		2m PVC cable		M8 connector	
Meterial		Nickel-copper alloy			
Sensing side		PBT			

Dimension



- ※ Overload short circuit, reverse polarity protection, surge absorption IP67 protection
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- ※ Working status, more intuitive and obvious



Selection Guide

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L	R	12	04	N	1		
①	②	③	④	⑤	⑥	⑦	⑧
① Model :L:Inductive、C:Capacitive、M:Reed Magnetic Switch、H:Hall switch、F:long Distance Inductive							
② External structure :R: Cylindrical、F: Square Type							
③ DIA. of sensing side :Number: DIA. of sensing side (unit:mm)							
④ Sensing distance :Number: Sensing distance (unit:mm)							
⑤ Power supply :N: NPN 10-30VDC 3-wire、P: PNP 10-30VDC 3-wire、D: 10-30VDC 2-wire A: 90-250VAC 2-wire							
⑥ Control output :1: Normally open、2: Normally closed							
⑦ Connection :No mark: Cable type、P: Connector type、WP: Cable connector type							
⑧ Tail line length :No mark:2M Cable number: (unit m)							

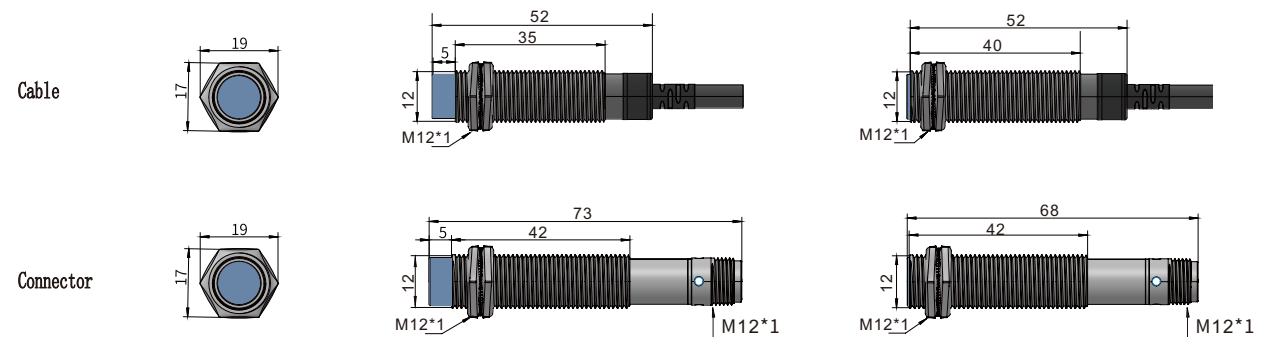
Specifications

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Specifications					
Model	DC 3-wire NPN.NO	LR12-02N1	LR12-04N1	LR12-02N1-P	LR12-04N1-P
	DC 3-wire NPN.NC	LR12-02N2	LR12-04N2	LR12-02N2-P	LR12-04N2-P
	DC 3-wire PNP.NO	LR12-02P1	LR12-04P1	LR12-02P1-P	LR12-04P1-P
	DC 3-wire PNP.NC	LR12-02P2	LR12-04P2	LR12-02P2-P	LR12-04P2-P
	DC 2-wire NO	LR12-02D1	LR12-04D1	LR12-02D1-P	LR12-04D1-P
	DC 2-wire NC	LR12-02D2	LR12-04D2	LR12-02D2-P	LR12-04D2-P
	AC 2-wire NO	LR12-02A1	LR12-04A1	LR12-02A1-P	LR12-04A1-P
	AC 2-wire NC	LR12-02A2	LR12-04A2	LR12-02A2-P	LR12-04A2-P
Mounting		Flush	Non-Flush	Flush	Non-Flush
Sensing distance		2MM±10%	4MM±10%	2MM±10%	4MM+10%
Setting distance(Sa)		0-1.8MM	0-3.6MM	0-1.8MM	0-3.6MM
Hysteresis		≤10%			
Standard sensing target		12*12*1MM (iron)			
Supply voltage		DC:10-30VDC;AC:90-250V			
Leakage current		≤0.6mA			
Response frequency(F)		500Hz (DC) 25Hz (AC)			
Consumption current		DC 3-wireNPN PNP: ≤10mA; DC 2-wire: ≤3mA; AC 2-wire: ≤2mA			
Load current		200mA			
Voltage drop		≤2.5V			
Circuit protection		Short-circuit,overload,reverse polarity protection			
Output indicator		Green LED			
Ambient temperature		-20~+70°C			
Shock		500m/s(50G) in each X,Y,Z direction for 3 times			
Vibration		1mm amplitudeatfre quency10~55Hz(for1min) ineachX.Y Zdirection for 2hours			
Protection degree		IP67(IEC standards)			
Connection		2m PVC cable		M12 connector	
Meterial		Nickel-copper alloy			
Sensing side		PBT			

Dimension

GTRIC®



- ※ Overload short circuit, reverse polarity protection, surge absorption IP67 protection
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Selection Guide

GTRIC®

L	R	18	05	N	1		
①	②	③	④	⑤	⑥	⑦	⑧

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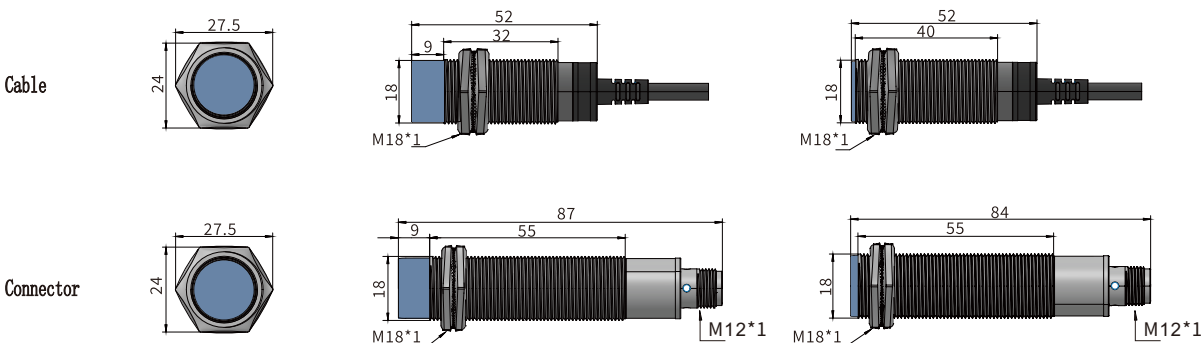
Specifications

GTRIC®

Specifications					
Model	DC 3-wire NPN.NO	LR18-05N1	LR18-08N1	LR18-05N1-P	LR18-08N1-P
	DC 3-wire NPN.NC	LR18-05N2	LR18-08N2	LR18-05N2-P	LR18-08N2-P
	DC 3-wire PNP.NO	LR18-05P1	LR18-08P1	LR18-05P1-P	LR18-08P1-P
	DC 3-wire PNP.NC	LR18-05P2	LR18-08P2	LR18-05P2-P	LR18-08P2-P
	DC 2-wire NO	LR18-05D1	LR18-08D1	LR18-05D1-P	LR18-08D1-P
	DC 2-wire NC	LR18-05D2	LR18-08D2	LR18-05D2-P	LR18-08D2-P
	AC 2-wire NO	LR18-05A1	LR18-08A1	LR18-05A1-P	LR18-08A1-P
	AC 2-wire NC	LR18-05A2	LR18-08A2	LR18-05A2-P	LR18-08A2-P
Mounting		Flush	Non-Flush	Flush	Non-Flush
Sensing distance		5MM±10%	8MM±10%	5MM±10%	8MM±10%
Setting distance(Sa)		0-4.5MM	0-7.2MM	0-4.5MM	0-7.2MM
Hysteresis		≤10%			
Standard sensing target		18*18*1MM (iron)			
Supply voltage		DC:10-30VDC;AC:90-250V			
Leakage current		≤0.6mA			
Response frequency(F)		500Hz (DC) 25Hz (AC)			
Consumption current		DC 3-wireNPN PNP: ≤10mA; DC 2-wire: ≤3mA; AC 2-wire: ≤2mA			
Load current		200mA			
Voltage drop		≤2.5V			
Circuit protection		Short-circuit,overload,reverse polarity protection			
Output indicator		Green LED			
Ambient temperature		-20~+70°C			
Shock		500m/s(50G) in each X,Y,Z direction for 3 times			
Vibration		1mm amplitudeatfre quency 10~55Hz(for1min) ineachX.Y Zdirection for 2hours			
Protection degree		IP67(IEC standards)			
Connection		2m PVC cable		M12 connector	
Meterial		Nickel-copper alloy			
Sensing side		PBT			

Dimension

GTRIC®



- ※ Overload short circuit, reverse polarity protection, surge absorption IP67 protection
- ※ It has the advantages of waterproof, oil resistance and high temperature resistance. 360°full surround green LED display
- ※ Working status, more intuitive and obvious



Selection Guide

GTRIC®

L	R	30	15	N	1		
①	②	③	④	⑤	⑥	⑦	⑧
① Model :L:Inductive、C:Capacitive、M:Reed Magnetic Switch、H:Hall switch、F:long Distance Inductive							
② External structure : R: Cylindrical、F: Square Type							
③ DIA. of sensing side :Number: DIA. of sensing side (unit:mm)							
④ Sensing distance :Number: Sensing distance (unit:mm)							
⑤ Power supply :N: NPN 10-30VDC 3-wire、P: PNP 10-30VDC 3-wire、D: 10-30VDC 2-wire A: 90-250VAC 2-wire							
⑥ Control output :1: Normally open、2: Normally closed							
⑦ Connection :No mark: Cable type、P: Connector type、WP: Cable connector type							
⑧ Tail line length :No mark:2M Cable number: (unit m)							

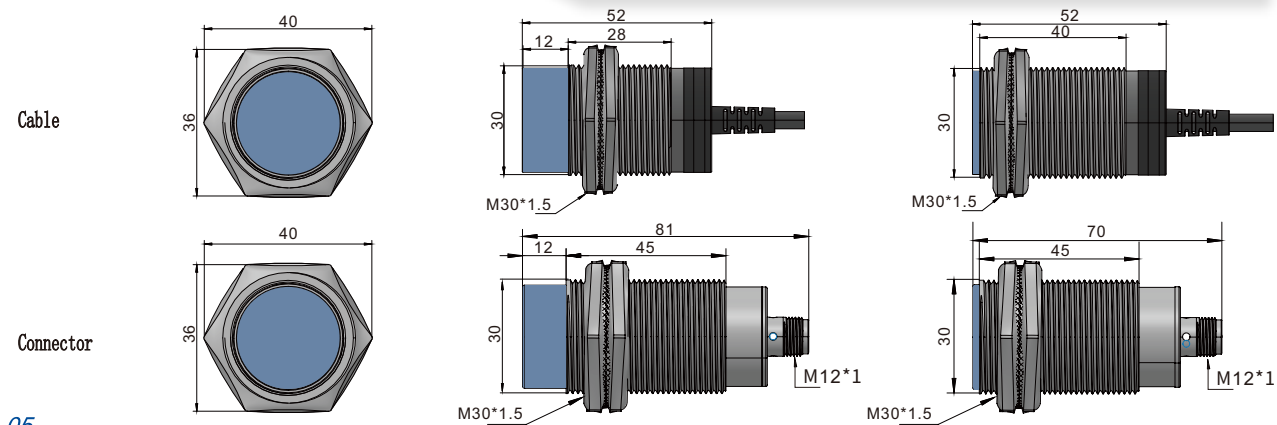
Specifications

GTRIC®

Specifications					
Model	DC 3-wire NPN.NO	LR30-10N1	LR30-15N1	LR30-10N1-P	LR30-15N1-P
	DC 3-wire NPN.NC	LR30-10N2	LR30-15N2	LR30-10N2-P	LR30-15N2-P
	DC 3-wire PNP.NO	LR30-10P1	LR30-15P1	LR30-10P1-P	LR30-15P1-P
	DC 3-wire PNP.NC	LR30-10P2	LR30-15P2	LR30-10P2-P	LR30-15P2-P
	DC 2-wire NO	LR30-10D1	LR30-15D1	LR30-10D1-P	LR30-15D1-P
	DC 2-wire NC	LR30-10D2	LR30-15D2	LR30-10D2-P	LR30-15D2-P
	AC 2-wire NO	LR30-10A1	LR30-15A1	LR30-10A1-P	LR30-15A1-P
	AC 2-wire NC	LR30-10A2	LR30-15A2	LR30-10A2-P	LR30-15A2-P
Mounting		Flush	Non-Flush	Flush	Non-Flush
Sensing distance		10MM±10%	15MM±10%	10MM±10%	15MM±10%
Setting distance(Sa)		0-9MM	0-13.5MM	0-9MM	0-13.5MM
Hysteresis		≤10%			
Standard sensing target		30*30*1MM(iron)			
Supply voltage		DC:10-30VDC;AC:90-250V			
Leakage current		≤0.6mA			
Response frequency(F)		500Hz(DC) 25Hz(AC)			
Consunption current		DC 3-wireNPN PNP: ≤10mA; DC 2-wire: ≤3mA; AC 2-wire: ≤2mA			
Load current		200mA			
Voltage drop		≤2.5V			
Circuit protection		Short-circuit,overload,reverse polarity protection			
Output indicator		Green LED			
Ambient temperature		-20~+70℃			
Shock		500m/s(50G) in each X,Y,Z direction for 3 times			
Vibration		1mm amplitudeatfre quency 10~55Hz(for1min) ineachX.Y Zdirection for 2hours			
Protection degree		IP67(IEC standards)			
Connection		2m PVC cable		M12 connector	
Meterial		Nickel-copper alloy			
Sensing side		PBT			

Dimension

GTRIC®



- ※ With overload short circuit, reverse connection protection, surge absorption IP67 protection level
- ※ It has the advantages of water resistance, oil resistance, high temperature resistance, etc. 360° full surround green LED display working status
- ※ More intuitive and obvious Ultra-long-distance detection, making products more diversified



Selection Guide

GTRIC®

FR	08	—	02	N	1	
①	②		③	④	⑤	⑥
① Model : LR: Inductive Sensor、CR: Capacitive Sensor、FR: long Distance Inductive Sensor						
② DIA. of sensing side : Number: DIA. of sensing side (unit:mm)						
③ Sensing distance : Number: Sensing distance (unit:mm)						
④ Powersupply : N: NPN 10-30VDC 3-wire、P: PNP 10-30VDC 3-wire、D: 10-30VDC 2-wire A: 90-250VAC 2-wire						
⑤ Control output : 1:Normallyopen、2:Normally closed						
⑥ Connection : Nomark: Cable type、P: Connector type、WP: Cable connector type						

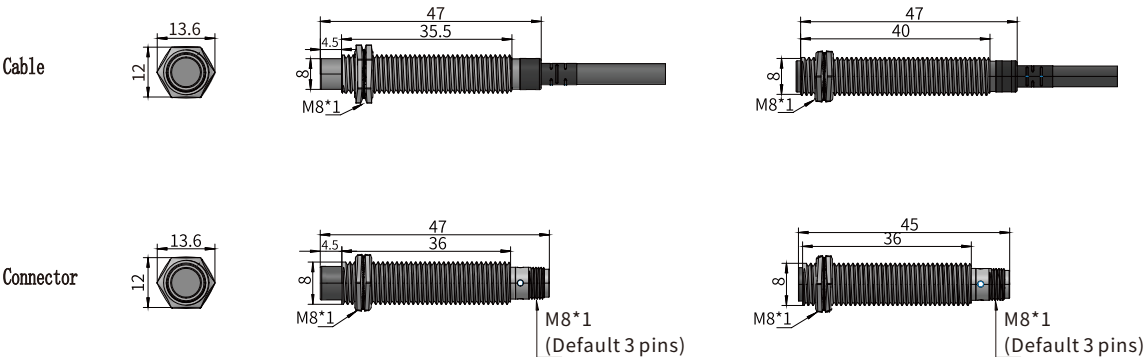
Specifications

GTRIC®

Specifications			
Model	DC 3-wire NPN.NO	FR08-02N1	FR08-04N1
	DC 3-wire NPN.NC	FR08-02N2	FR08-04N2
	DC 3-wire PNP.NO	FR08-02P1	FR08-04P1
	DC 3-wire PNP.NC	FR08-02P2	FR08-04P2
Mounting		Flush	Non-Flush
Sensing distance		2MM±10%	4MM±10%
Setting distance(Sa)		0-1.8MM	0-3.6MM
Hysteresis		≤10%	
Standard sensing target		18*18*1MM (iron)	
Supply voltage		DC:10-30VDC； AC: 90-250V	
Leakage current		≤0.6mA	
Response frequency(F)		500Hz (DC) 25Hz (AC)	
Consumption current		DC3-wireNPNPNP: ≤10mA;DC2-wire: ≤3mA; AC2-wire: ≤2mA	
Load current		200mA	
Voltage drop		≤2.5V	
Circuit protection		Short-circuit,overload,reversepolarityprotection	
Output indicator		GreenLED	
Ambient temperature		-20~+70℃	
Shock		500m/s(50G)ineachX,Y,Zdirectionfor3times	
Vibration		1mm amplitudeatfre quency10~55Hz(for1min) ineachX.Y Zdirection for 2hours	
Protection degree		IP67(IECstandards)	
Connection		2mPVCcable	M8 connector
Meterial		Nickel-copperalloy	
Sensing side		PBT	

Dimension

GTRIC®



- ✧ With overload short circuit, reverse connection protection, surge absorption IP67 protection level
- ✧ It has the advantages of water resistance, oil resistance, high temperature resistance, etc. 360° full surround green LED display working status
- ✧ More intuitive and obvious Ultra-long-distance detection, making products more diversified



Selection Guide

GTRIC®

FR	12	—	08	N	1	□
①	②	③	④	⑤	⑥	
① Model : LR: Inductive Sensor、CR: Capacitive Sensor、FR: long Distance Inductive Sensor						
② DIA. of sensing side : Number: DIA. of sensing side (unit:mm)						
③ Sensing distance : Number: Sensing distance (unit:mm)						
④ Powersupply : N: NPN 10-30VDC 3-wire、P: PNP 10-30VDC 3-wire、D: 10-30VDC 2-wire A: 90-250VAC 2-wire						
⑤ Control output : 1:Normallyopen、2:Normally closed						
⑥ Connection : Nomark: Cable type、P: Connector type、WP: Cable connector type						

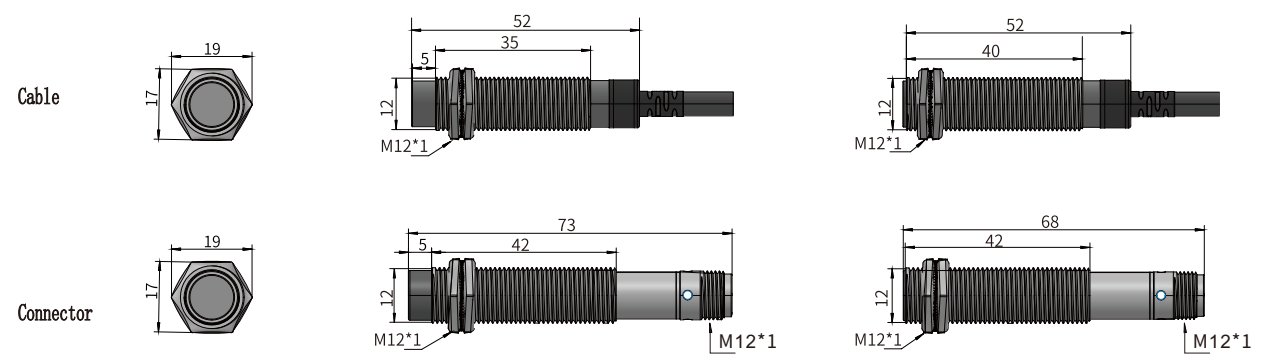
Specifications

GTRIC®

Specifications					
Model	DC 3-wire NPN.NO	FR12-04N1	FR12-08N1	FR12-04N1-P	FR12-08N1-P
	DC 3-wire NPN.NC	FR12-04N2	FR12-08N2	FR12-04N2-P	FR12-08N2-P
	DC 3-wire PNP.NO	FR12-04P1	FR12-08P1	FR12-04P1-P	FR12-08P1-P
	DC 3-wire PNP.NC	FR12-04P2	FR12-08P2	FR12-04P2-P	FR12-08P2-P
	DC 2-wire NO	FR12-04D1	FR12-08D1	FR12-04D1-P	FR12-08D1-P
	DC 2-wire NC	FR12-04D2	FR12-08D2	FR12-04D2-P	FR12-08D2-P
	AC 2-wire NO	/	/	/	/
	AC 2-wire NC	/	/	/	/
Mounting		Flush	Non-Flush	Flush	Non-Flush
Sensing distance		4MM±10%	8MM±10%	4MM±10%	8MM±10%
Setting distance(Sa)		0-3.6MM	0-7.2MM	0-3.6MM	0-7.2MM
Hysteresis		≤10%			
Standard sensing target		12*12*1MM（iron）			
Supply voltage		DC:10-30VDC； AC: 90-250V			
Leakage current		≤0.6mA			
Response frequency(F)		500Hz（DC）25Hz（AC）			
Consunption current		DC3-wireNPNPNP: ≤10mA;DC2-wire: ≤3mA; AC2-wire: ≤2mA			
Load current		200mA			
Voltage drop		≤2.5V			
Circuit protection		Short-circuit,overload,reversepolarityprotection			
Output indicator		GreenLED			
Ambient temperature		-20~+70℃			
Shock		500m/s(50G)ineachX,Y,Zdirectionfor3times			
Vibration		1mm amplitudeatfre quency10~55Hz(for1min) ineachX.Y Zdirection for 2hours			
Protection degree		IP67(IECstandards)			
Connection		2mPVCcable		M12connector	
Meterial		Nickel-copperalloy			
Sensing side		PBT			

Dimension

GTRIC®



- ※ With overload short circuit, reverse connection protection, surge absorption IP67 protection level
- ※ It has the advantages of water resistance, oil resistance, high temperature resistance, etc. 360° full surround green LED display working status
- ※ More intuitive and obvious Ultra-long-distance detection, making products more diversified



Selection Guide

GTRIC®

FR	18	—	08	N	1	
①	②		③	④	⑤	⑥
① Model : LR: Inductive Sensor、CR: Capacitive Sensor、FR: long Distance Inductive Sensor						
② DIA. of sensing side : Number: DIA. of sensing side (unit:mm)						
③ Sensing distance : Number: Sensing distance (unit:mm)						
④ Powersupply : N: NPN 10-30VDC 3-wire、P: PNP 10-30VDC 3-wire、D: 10-30VDC 2-wire A: 90-250VAC 2-wire						
⑤ Control output : 1:Normallyopen、2:Normally closed						
⑥ Connection : Nomark: Cable type、P: Connector type、WP: Cable connector type						

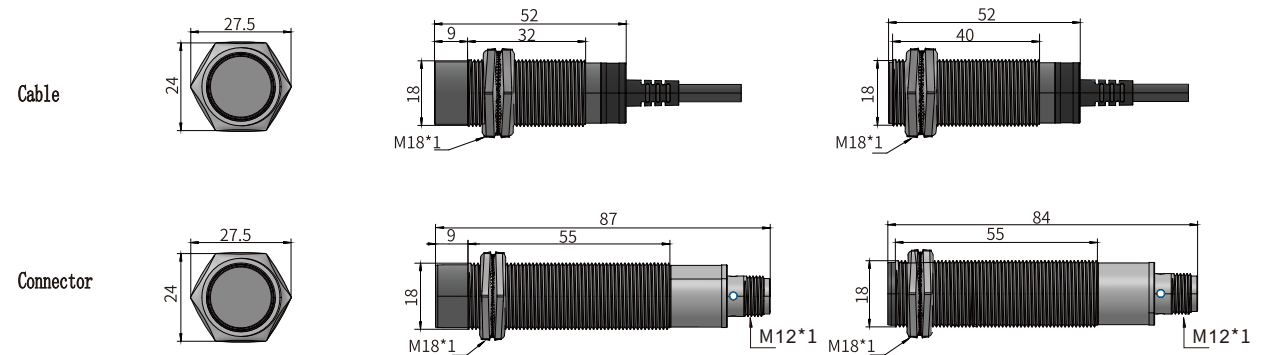
Specifications

GTRIC®

Specifications					
Model	DC 3-wire NPN.NO	FR18-08N1	FR18-16N1	FR18-08N1-P	FR18-16N1-P
	DC 3-wire NPN.NC	FR18-08N2	FR18-16N2	FR18-08N2-P	FR18-16N2-P
	DC 3-wire PNP.NO	FR18-08P1	FR18-16P1	FR18-08P1-P	FR18-16P1-P
	DC 3-wire PNP.NC	FR18-08P2	FR18-16P2	FR18-08P2-P	FR18-16P2-P
	DC 2-wire NO	FR18-08D1	FR18-16D1	FR18-08D1-P	FR18-16D1-P
	DC 2-wire NC	FR18-08D2	FR18-16D2	FR18-08D2-P	FR18-16D2-P
	AC 2-wire NO	/	/	/	/
	AC 2-wire NC	/	/	/	/
Mounting		Flush	Non-Flush	Flush	Non-Flush
Sensing distance		8MM±10%	16MM±10%	8MM±10%	16MM±10%
Setting distance(Sa)		0-7.2MM	0-14.4MM	0-7.2MM	0-14.4MM
Hysteresis		≤10%			
Standard sensing target		18*18*1MM (iron)			
Supply voltage		DC:10-30VDC； AC: 90-250V			
Leakage current		≤0.6mA			
Response frequency(F)		500Hz (DC) 25Hz (AC)			
Consumption current		DC3-wireNPNPNP: ≤10mA;DC2-wire: ≤3mA; AC2-wire: ≤2mA			
Load current		200mA			
Voltage drop		≤2.5V			
Circuit protection		Short-circuit,overload,reversepolarityprotection			
Output indicator		GreenLED			
Ambient temperature		-20~+70℃			
Shock		500m/s(50G)ineachX,Y,Zdirectionfor3times			
Vibration		1mm amplitudeatfre quenc y10~55Hz(for1min) ineachX.Y Zdirection for 2hours			
Protection degree		IP67(IECstandards)			
Connection		2mPVCcable		M12connector	
Material		Nickel-copperalloy			
Sensing side		PBT			

Dimension

GTRIC®



- ✧ With overload short circuit, reverse connection protection, surge absorption IP67 protection level
- ✧ It has the advantages of water resistance, oil resistance, high temperature resistance, etc. 360° full surround green LED display working status
- ✧ More intuitive and obvious Ultra-long-distance detection, making products more diversified



Selection Guide

GTRIC®

FR	30	—	20	N	1	
①	②		③	④	⑤	⑥
① Model : LR: Inductive Sensor、CR: Capacitive Sensor、FR: long Distance Inductive Sensor						
② DIA. of sensing side : Number: DIA. of sensing side (unit:mm)						
③ Sensing distance : Number: Sensing distance (unit:mm)						
④ Powersupply : N: NPN 10-30VDC 3-wire、P: PNP 10-30VDC 3-wire、D: 10-30VDC 2-wire A: 90-250VAC 2-wire						
⑤ Control output : 1:Normallyopen、2:Normally closed						
⑥ Connection : Nomark: Cable type、P: Connector type、WP: Cable connector type						

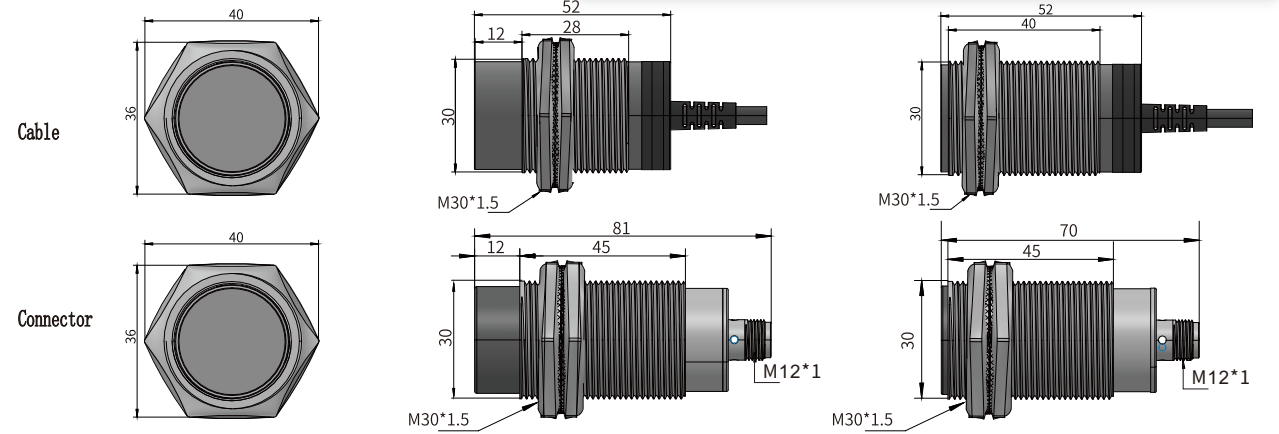
Specifications

GTRIC®

Specifications						
Model	DC 3-wire NPN.NO	FR30-20N1	FR30-25N1	FR30-40N1	FR30-20N1-P	FR30-25N1-P
	DC 3-wire NPN.NC	FR30-20N2	FR30-25N2	FR30-40N2	FR30-20N2-P	FR30-25N2-P
	DC 3-wire PNP.NO	FR30-20P1	FR30-25P1	FR30-40P1	FR30-20P1-P	FR30-25P1-P
	DC 3-wire PNP.NC	FR30-20P2	FR30-25P2	FR30-40P2	FR30-20P2-P	FR30-25P2-P
	DC 2-wire NO	/	/	/	/	/
	DC 2-wire NC	/	/	/	/	/
	AC 2-wire NO	/	/	/	/	/
	AC 2-wire NC	/	/	/	/	/
Mounting		Flush	Non-Flush	Non-Flush	Flush	Non-Flush
Sensing distance		20MM+10%	25MM+10%	40MM±10%	20MM±10%	25MM±10%
Setting distance(Sa)		0-18MM	0-22.5MM	0-36MM	0-18MM	0-22.5MM
Hysteresis		≤10%				
Standard sensing target		30*30*1MM (iron)				
Supply voltage		DC:10-30VDC； AC: 90-250V				
Leakage current		≤0.6mA				
Response frequency(F)		500Hz (DC) 25Hz (AC)				
Consumption current		DC3-wireNPNPNP：≤10mA;DC2-wire：≤3mA;AC2-wire：≤2mA				
Load current		200mA				
Voltage drop		≤2.5V				
Circuit protection		Short-circuit,overload,reversepolarityprotection				
Output indicator		GreenLED				
Ambient temperature		-20~+70℃				
Shock		500m/s(50G)ineachX,Y,Zdirectionfor3times				
Vibration		1mm amplitudeatfre quency10~55Hz(for1min) ineachX.Y Zdirection for 2hours				
Protection degree		IP67(IECstandards)				
Connection		2mPVCcable		M12connector		
Material		Nickel-copperalloy				
Sensing side		PBT				

Dimension

GTRIC®



- ※ Power reverse polarity protection
- ※ Long life and high reliability
- ※ IP67 protection structure (IEC standard)



Selection Guide

GTRIC®

L	R	12	04	UI
①	②	③	④	⑤
① Model :L:Inductive、C:Capacitive、M:Reed Magnetic Switch、H:Hall switch、F:long Distance Inductive				
② External structure :R: Cylindrical、F: Square Type				
③ DIA. of sensing side :Number: DIA. of sensing side (unit:mm)				
④ Sensing distance :Number: Sensing distance (unit:mm)				
⑤ Control output :U:0-10V voltage output、I:4-20mA current output 、UI:Current and voltage dual output				

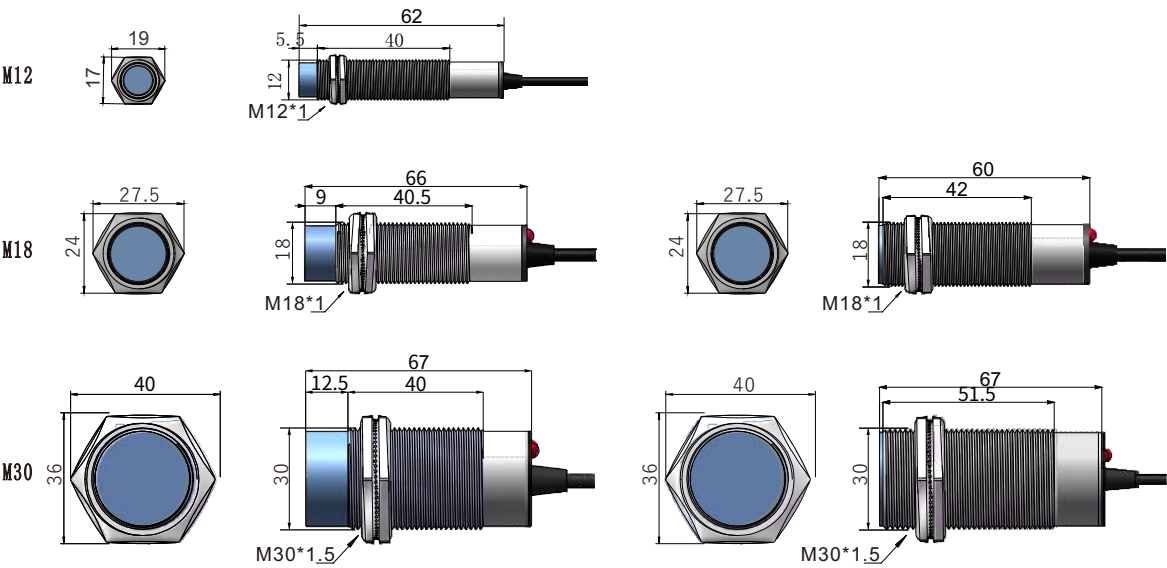
Specifications

GTRIC®

Specifications						
Model	Voltage output	LR12-04U	LR18-05U	LR18-08U	LR30-10U	LR30-15U
	Dual output	LR12-04UI	LR18-05UI	LR18-08UI	LR30-10UI	LR30-15UI
Mounting		Non-Flush	Flush	Non-Flush	Flush	Non-Flush
Sensing distance		4MM±10%	5MM±10%	8MM±10%	10MM±10%	15MM±10%
Setting distance(Sa)		0-3.6MM	0-4.5MM	0-7.2MM	0-9MM	0-13.5MM
Hysteresis		≤10%				
Standard sensing target		12*12*1MM (iron)		18*18*1MM (iron)		30*30*1MM (iron)
Supply voltage		15-30VDC				
output method		Voltage output:0-10VDualoutput: voltage output 0-10V and current output 4-20mA				
load resiston		Voltage output:≥4.7KΩ; current output:≤500Ω				
response frequency		200Hz				
Load current		200mA				
Circuitprotection		Short-circuit,overload,reversepolarityprotection				
Outputin dicator		Red LED				
Ambienttem perature		-20°C~+70°C				
Shock		500m/s(50G)ineachX,Y,Zdirectionfor3times				
Vibration		1mmamplitudeatfreauency10~55Hz(for1min)ineachX, Y, Zdirectionfor2hours				
Protection degree		IP67(IECstandards)				
Connection		2m PVC cable				
Meterial		Nickel-copperalloy				
Sensing side		PBT				

Dimension

GTRIC®



- ✧ With overload short circuit, reverse connection protection, surge absorption
- ✧ IP67 level of protection



Selection Guide

GTRIC®

HR	12	—	10	N	1
①	②		③	④	⑤

- ① **Model:**HR:Hall sensor、MR:Reed Sensor
- ② **DIA. of sensing side:**Number: DIA. of sensing side (unit:mm)
- ③ **Sensing distance:**Number: Sensing distance (unit:cm)
- ④ **Power supply:**N:NPN 10-30VDC3-wire、P:PNP 10-30VDC3-wire G:5-220V 2--wire
- ⑤ **Control output:**1: Normally open、2: Normally closed

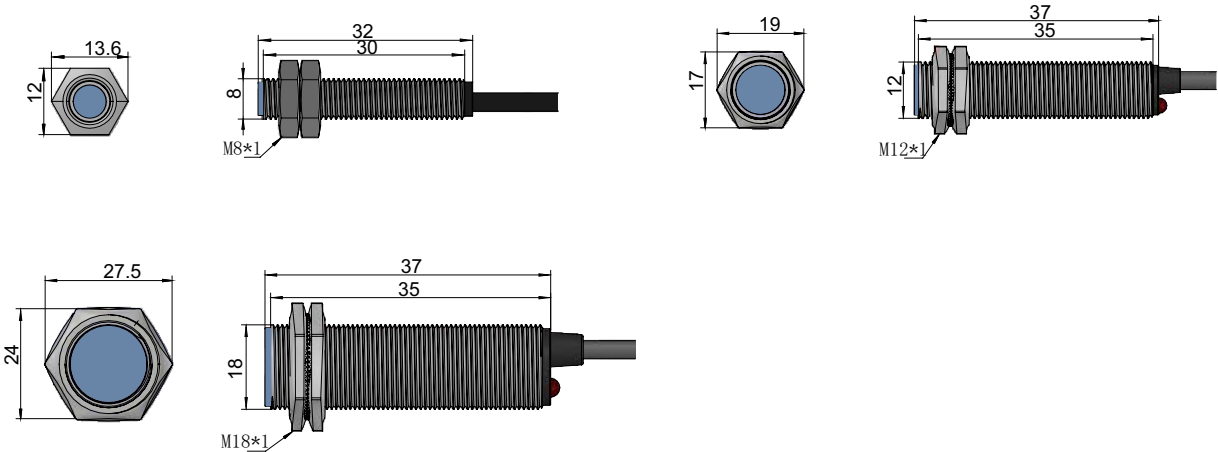
Specifications

GTRIC®

Specifications				
Model	DC3-wireNPN.NO	HR08-10N1	HR12-10N1	HR18-10N1
	DC3-wireNPN.NC	HR08-10N2	HR12-10N2	HR18-10N2
	NPN.NO+NC	/	/	/
	DC3-wirePNPNO	HR08-10P1	HR12-10P1	HR18-10P1
	DC3-wirePNPNC	HR08-10P2	HR12-10P2	HR18-10P2
	PNP.NO+NC	/	/	/
Mounting		Flush		
Sensing distance		10MM		
Setting distance(Sa)		0-8MM		
Hysteresis		≤10%		
Standardsensing target		Magnetic field strength of the magnet is different detection distance is also different		
Supply voltage		DC:10-30VDC		
leakage current		0.5mA		
Responsefrequency(F)		1KHz		
Load current		150mA		
Residual voltage		≤1V		
Circuitprotection		Surge absorption,reverse connection protection		
Outputindicator		Red LED		
Ambienttemperature		-20~+70℃		
Shock		500m/s(50G)ineachX,Y,Zdirectionfor3times		
Vibration		1mm amplitudeatfre quenc y10~55Hz(for1min) ineachX.Y Zdirection for 2hours		
Protectiondegree		IP67(IEC standards)		
Connection		2m PVC cable		
Meterial		Nickel-copperalloy		
Sensingside		ABS		

Dimension

GTRIC®



- ※ With overload short circuit, reverse connection protection, surge absorption
- ※ IP67 level of protection



Selection Guide

GTRIC®

MR	12	—	10	N	1
①	②		③	④	⑤

- ①**Model**:HR:Hall sensor、MR:Reed Sensor
- ②**DIA. of sensing side**:Number: DIA. of sensing side (unit:mm)
- ③**Sensing distance**:Number: Sensing distance (unit:cm)
- ④**Power supply**:N:NPN 10-30VDC3-wire、P:PNP 10-30VDC3-wire G:5-220V 2--wire
- ⑤**Control output**:1: Normally open、2: Normally closed

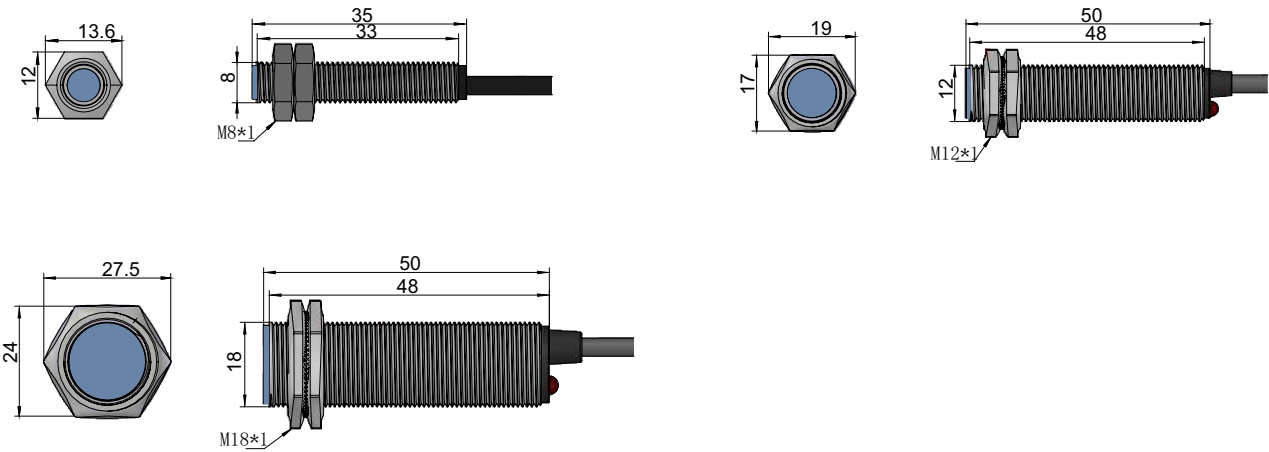
Specifications

GTRIC®

Specifications				
Model	10-30VDC 2-wire NO	MR08-10D1	MR12-10D1	MR18-10D1
	10-30VDC 2-wire NC	MR08-10D2	MR12-10D2	MR18-10D2
	90-220VAC 2-wire NO	MR08-10A1	MR12-10A1	MR18-10A1
	90-220VAC 2-wire NC	MR08-10A2	MR12-10A2	MR18-10A2
Mounting		Flush		
Sensing distance		10MM		
Setting distance(Sa)		0-8MM		
Hysteresis		≤10%		
Standar dsensing target		Magnetic field strength of the magnet is different detection distance is also different		
Supplyvoltage		5-220V		
leakage current		0.5mA		
Response frequency(F)		1KHz		
Load current		150mA		
Residual voltage		≤1V		
Circuitprotection		Surge absorptionreverse connection protection		
Outputindicator		Red LED		
Ambienttemperature		-20~+70℃		
Shock		500m/s(50G)ineachX,Y,Zdirectionfor3times		
Vibration		1mm amplitudeatfre quenc y10~55Hz(for1min) ineachX.Y Zdirection for 2hours		
Protectiondegree		IP67(IEC standards)		
Connection		2mPVC cable		
Meterial		Nickel-copperalloy		
Sensingside		ABS		

Dimension

GTRIC®



- ※ With overload short circuit, reverse connection protection, surge absorption
- ※ Can sense non-metallic objects



Selection Guide

GTRIC®

C	R	12	04	N	1	□	□
①	②	③	④	⑤	⑥	⑦	⑧
① Model :L:Inductive、C:Capacitive、M:Reed Magnetic Switch、H:Hall switch、F:remote inductive							
② External structure :R: Cylindrical、F: Corner column type							
③ DIA. of sensing side :Number: DIA. of sensing side (unit:mm)							
④ Sensing distance :Number: Sensing distance (unit:mm)							
⑤ Power supply :N: NPN 10-30VDC 3-wire、P: PNP 10-30VDC 3-wire、D: 10-30VDC 2-wire A: 90-250VAC 2-wire							
⑥ Control output :1: Normally open、2: Normally closed							
⑦ Connection :No mark: Cable type、P: Connector type、WP: Cable connector type							
⑧ Tail line length :No mark:2M Cable number: (unit m)							

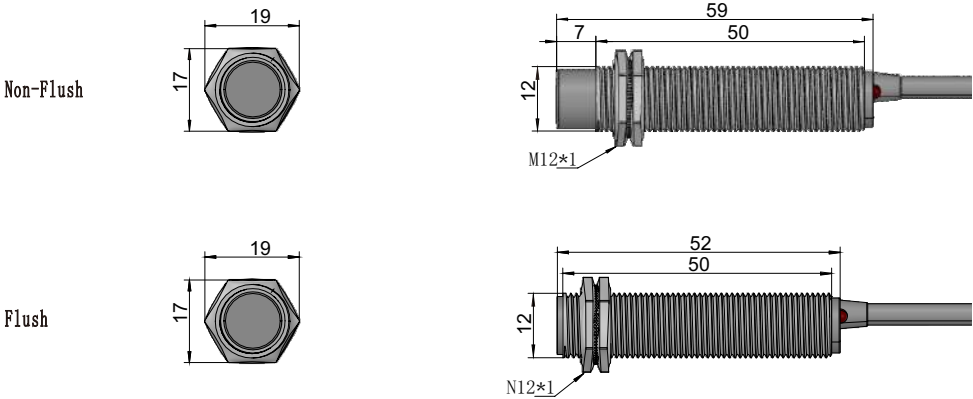
Specifications

GTRIC®

Specifications		
Model	DC3-wireNPN.NO	CR12-02N1
	DC3-wireNPN.NC	CR12-02N2
	DC3-wirePNP.NO	CR12-02P1
	DC3-wirePNP.NC	CR12-02P2
	AC2-wire NO	\
	AC2-wire NC	\
Mounting		Flush
Sensingdistance		2mm±20%
Hysteresis		≤20%
Detect objects		Conductors and Dielectrics
Standardsensingtarget		Ground metal plate 50*50*1mm
Supplyvoltage		DC:10-30VDC
Response frequency(F)		500Hz (DC)
Load current		200mA
Voltagedrop		≤2.5V
Circuitprotection		Short-circuit,overload,reversepolarityprotection
Outputindicator		Red LED
Ambienttemperature		-20~+70℃
Shock		500m/s(50G)ineachX,Y,Z directionfor 3 times
Vibration		1mm amplitudeatfre quenc y10~55Hz(for1min) ineachX.Y Zdirection for 2hours
Protectiondegree		IP65
Connection		2mPVCcable
Meterial		Nickel-copperalloy
Sensing side		PBT

Dimension

GTRIC®



- ✱ With overload short circuit, reverse connection protection, surge absorption
- ✱ Can sense non-metallic objects



Selection Guide

GTRIC®

C	R	18	04	N	1	□	□
①	②	③	④	⑤	⑥	⑦	⑧
① Model :L:Inductive、C:Capacitive、M:Reed Magnetic Switch、H:Hall switch、F:remote inductive							
② External structure :R: Cylindrical、F: Corner column type							
③ DIA. of sensing side :Number: DIA. of sensing side (unit:mm)							
④ Sensing distance :Number: Sensing distance (unit:mm)							
⑤ Power supply :N: NPN 10-30VDC 3-wire、P: PNP 10-30VDC 3-wire、D: 10-30VDC 2-wire A: 90-250VAC 2-wire							
⑥ Control output :1: Normally open、2: Normally closed							
⑦ Connection :No mark: Cable type、P: Connector type、WP: Cable connector type							
⑧ Tail line length :No mark:2M Cable number: (unit m)							

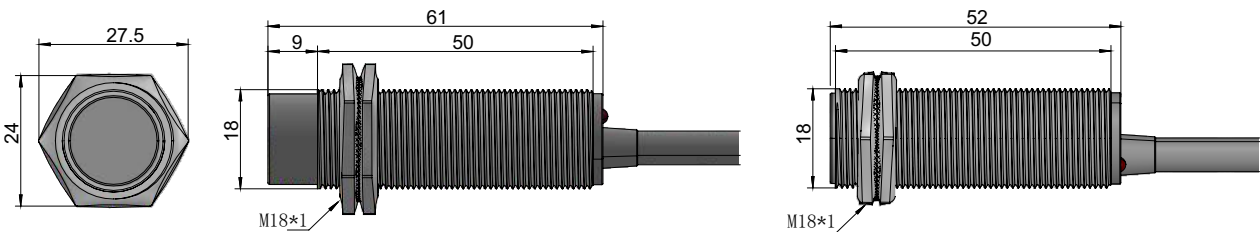
Specifications

GTRIC®

Specifications			
Model	DC3-wireNPN.NO	CR18-05N1	CR18-10N1
	DC3-wireNPN.NC	CR18-05N2	CR18-10N2
	NPN.NO+NC	CR18-05N3	CR18-10N3
	DC3-wirePNP.NO	CR18-05P1	CR18-10P1
	DC3-wirePNP.NC	CR18-05P2	CR18-10P2
	PNPNO+NC	CR18-05P3	CR18-10P3
	AC2-wireNO	CR18-05A1	CR18-10PA1
	AC2-wireNC	CR18-05A2	CR18-10PA2
	AC3-wireNO+NC	CR18-05A3	CR18-10PA3
Mounting		Flush	Non-Flush
Sensingdistance		5mm±20%	10mm±20%
Hysteresis		≤20%	≤20%
Detect objects		Conductors and Dielectrics	
Standardsensingtarget		Ground metal plate50*50*1mm	
Supplyvoltage		DC:10-30VDC	
Response frequency(F)		500Hz(DC)25Hz(AC)	
Load current		200mA	
Voltage drop		≤2.5V	
Circuitprotection		Short-circuit,overload,reversepolarityprotection	
Outputindicator		Red LED	
Ambienttemperature		-20~+70℃	
Shock		500m/s(50G)ineachX,Y,Zdirectionfor3times	
Vibration		1mm amplitudeatfre quenc y10~55Hz(for1min) ineachX,Y Zdirection for 2hours	
Protectiondegree		IP65	
Connection		2m PVC cable	
Meterial		Nickel-copperalloy	
Sensing side		PBT	

Dimension

GTRIC®



- ✧ With overload short circuit, reverse connection protection, surge absorption
- ✧ Can sense non-metallic objects



Selection Guide

GTRIC®

C	R	30	10	N	1		
①	②	③	④	⑤	⑥	⑦	⑧
① Model :L:Inductive、C:Capacitive、M:Reed Magnetic Switch、H:Hall switch、F:remote inductive							
② External structure :R: Cylindrical、F: Corner column type							
③ DIA. of sensing side :Number: DIA. of sensing side (unit:mm)							
④ Sensing distance :Number: Sensing distance (unit:mm)							
⑤ Power supply :N: NPN 10-30VDC 3-wire、P: PNP 10-30VDC 3-wire、D: 10-30VDC 2-wire A: 90-250VAC 2-wire							
⑥ Control output :1: Normally open、2: Normally closed							
⑦ Connection :No mark: Cable type、P: Connector type、WP: Cable connector type							
⑧ Tail line length :No mark:2M Cable number: (unit m)							

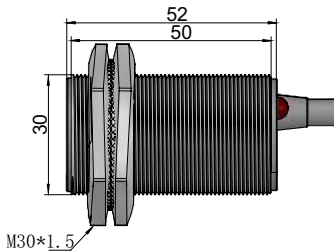
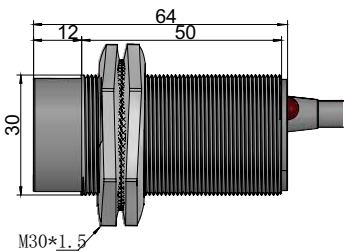
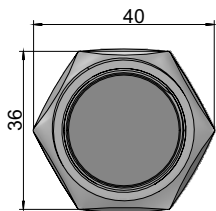
Specifications

GTRIC®

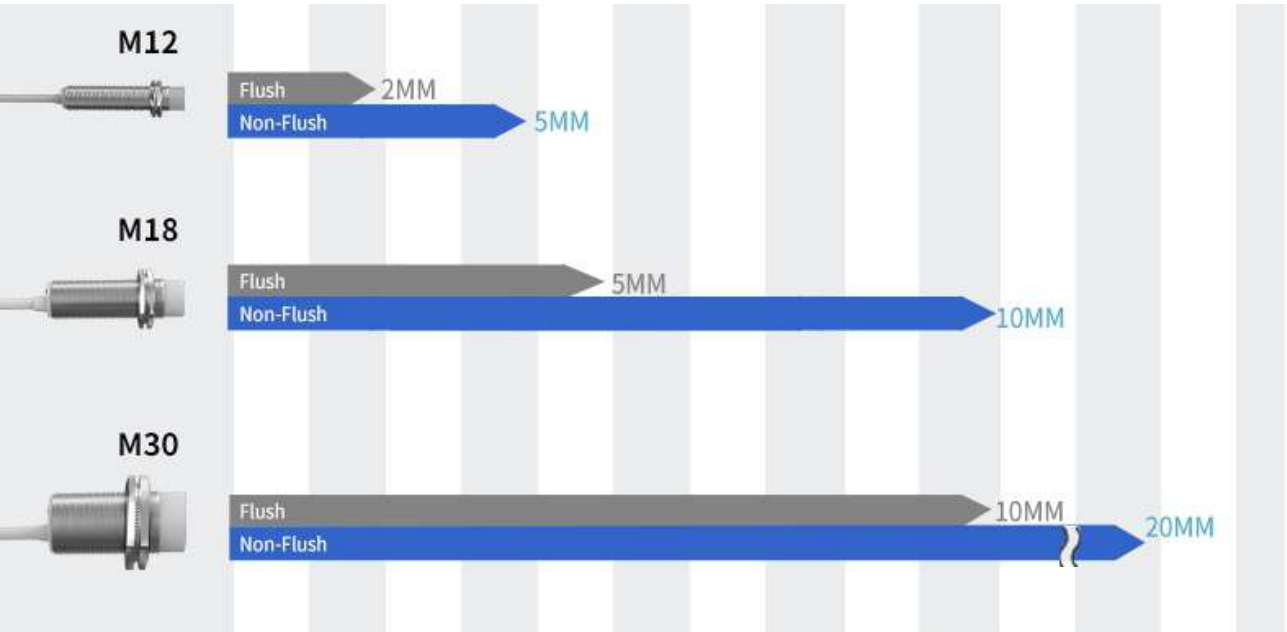
Specifications			
Model	DC3-wireNPN.NO	CR30-10N1	CR30-20N1
	DC3-wireNPN.NC	CR30-10N2	CR30-20N2
	NPN.NO+NC	CR30-10N3	CR30-20N3
	DC3-wirePNP.NO	CR30-10P1	CR30-20P1
	DC3-wirePNP.NC	CR30-10P2	CR30-20P2
	PNPNO+NC	CR30-10P3	CR30-20P3
	AC2-wire NO	CR30-10A1	CR30-20A1
	AC2-wireNC	CR30-10A2	CR30-20A2
	AC3-wireNO+NC	CR30-10A3	CR30-20A3
Mounting		Flush	Non-Flush
Sensingdistance		10mm+20%	20mm±20%
Hysteresis		≤20%	≤20%
Detect objects		Conductors and Dielectrics	
Standardsensingtarget		Ground metal plate50*50*1mm	
Supplyvoltage		DC:10-30VDC	
Response frequency(F)		500Hz(DC)25Hz(AC)	
Load current		200mA	
Voltagedrop		≤2.5V	
circuitprotection		Short-circuitoverloadreversepolarityprotection	
Outputindicator		Red LED	
Ambienttemperature		-20~+70℃	
Shock		500m/s(50G)ineachX,Y,Zdirectionfor3times	
Vibration		1mm amplitudeatfre quenc y10~55Hz(for1min) ineachX.Y Zdirection for 2hours	
Protectiondegree		IP65	
Connection		2m PVC cable	
Meterial		Nickel-copperalloy	
Sensingside		PBT	

Dimension

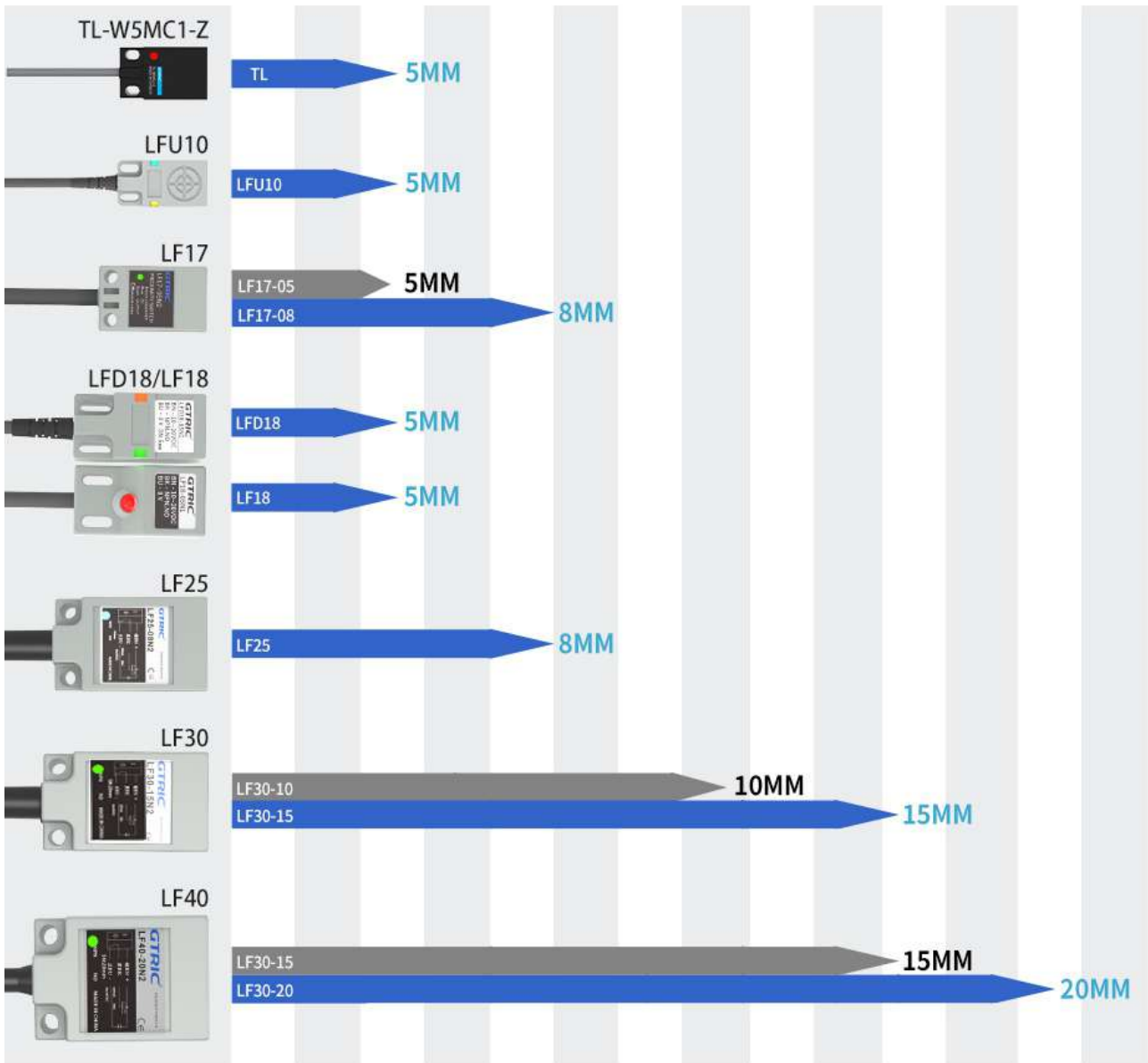
GTRIC®



CR Series Capacitive Proximity Sensor sensing distance diagram



LF Series Square Inductive Proximity Sensor sensing distance diagram



- ※ With overload short circuit, reverse connection protection, surge absorption IP67 protection level, with the advantages of water resistance, oil resistance, high temperature resistance, etc.
- ※ LED display working status, more intuitive and obvious



Selection Guide

GTRIC®

LF	17	—	05	N	1
①	②		③	④	⑤

- ①Model:LF:Square Inductive Sensor LFD:Double lamp square inductive sensor
- ②Sensing surface size: Nunumber:Sensing surface size17*17 (unit:mm)
- ③Sensing distance: Number: Sensing distance (unit:mm)
- ④Power supply:N: NPN 10-30VDC 3-wire、P: PNP 10-30VDC 3-wire、D: 10-30VDC 2-wire
A: 90-250VAC 2-wire
- ⑤Control output:1: Normally open、2: Normally closed

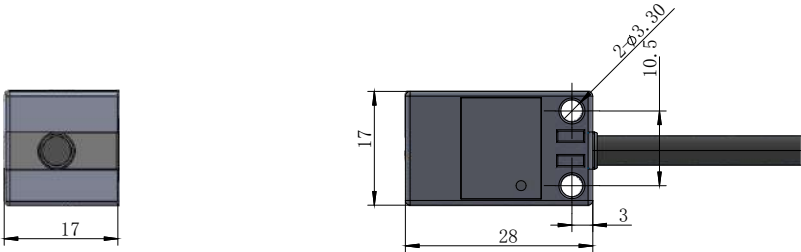
Specifications

GTRIC®

Specifications			
Model	DC3-wireNPN.NO	LF17-05N1	LF17-08N1
	DC3-wireNPN.NC	LF17-05N2	LF17-08N2
	DC3-wirePNP.NO	LF17-05P1	LF17-08P1
	DC3-wirePNPNC	LF17-05P2	LF17-08P2
	DC2-wireNO	LF17-05D1	LF17-08D1
	DC2-wireNC	LF17-05D2	LF17-08D2
	AC2-wireNO	\	\
	AC2-wireNC	\	\
Sensing distance		5MM±10%	10MM±10%
Setting distance(Sa)		0-4.5MM	0-7.2MM
Hysteresis		≤10%	
Standard sensing target		Magnetic metal (non-magnetic metal has a shorter detection distance)	
Supply voltage		DC:10-30VDC;AC:90-250V	
Leakage current		DC:≤0.6mA;AC:≤1.2mA	
Response frequency(F)		500Hz (DC) 20Hz (AC)	
Consumption current		DC3-wireNPNPNP:≤10mA;DC2-wire:≤3mA;AC2-wire:≤2mA	
Load current		200mA	
Voltage drop		DC3-wire NPN PNP:≤1V;DC 2-wire:≤3V;AC 2-wire:≤10V	
Circuit protection		Short-circuit, overload, reverse polarity protection	
Output indicator		Power-on green LED, induction red LED	
Ambient temperature		-20~+70℃	
Shock		500m/s(50G)ineachX,Y,Zdirectionfor3times	
Vibration		1mm amplitudeatfre quenc y10~55Hz(for1min) ineachX.Y Zdirection for 2hours	
Protection degree		IP67(IECstandards)	
Connection		2mPVCcable	
Sensing side		PBT	

Dimension

GTRIC®



- ※ With overload short circuit, reverse connection protection, surge absorption IP67 protection level, with the advantages of water resistance, oil resistance, high temperature resistance, etc.
- ※ LED display working status, more intuitive and obvious



Selection Guide

GTRIC®

LF	18	—	05	N	1
①	②	③	④	⑤	
①Model:LF:Square Inductive Sensor LFD:Double lamp square inductive sensor					
②Sensing surface size:Nunmber:Sensing surface size18*18 (unit:mm)					
③Sensing distance:Number: Sensing distance (unit:mm)					
④Power supply:N: NPN 10-30VDC 3-wire、P: PNP 10-30VDC 3-wire、D: 10-30VDC 2-wire A: 90-250VAC 2-wire					
⑤Control output:1: Normally open、2: Normally closed					

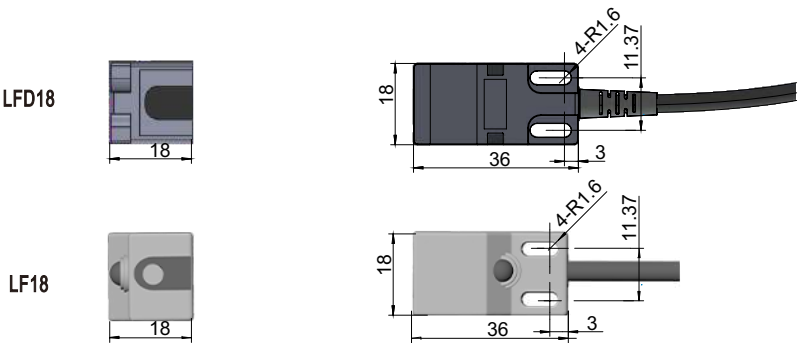
Specifications

GTRIC®

Specifications			
Model	DC3-wireNPN.NO	LF18-05N1	LFD18-05N1
	DC3-wireNPN.NC	LF18-05N2	LFD18-05N2
	DC3-wirePNP.NO	LF18-05P1	LFD18-05P1
	DC3-wirePNP.NC	LF18-05P2	LFD18-05P2
	DC2-wireNO	LF18-05D1	LFD18-05D1
	DC2-wireNC	LF18-05D2	LFD18-05D2
	AC2-wireNO	/	/
	AC2-wireNC	/	/
Sensing distance		5MM+10%	5MM±10%
Setting distance(Sa)		0-4.5MM	0-4.5MM
Display method		single lamp	Dual lights
Hysteresis		≤ 10%	
Detectable objects		Magnetic metal (non-magnetic metal has a shorter detection distance)	
Sensing surface size		18*18MM	
Supply voltage		DC:10-30VDC;AC:90-250V	
Leakage current		DC:≤0.6mAAC:≤1.2mA	
Responsefrequency(F)		250Hz (DC)20Hz (AC)	
Consunption current		DC3-wireNPNPNP:≤10mA;DC2-wire:≤3mA;AC2-wire: ≤2mA	
Load current		200mA	
Voltagedrop		DC3-wireNPNPNP:≤0.7V;DC2-wire:≤3V;AC2-wire:≤7V	
Circuitprotection		Short-circuit,overload,reversepolarityprotection	
Outputindicator		Power-on green light,induction yellowlight	
Ambienttemperature		-20~+70℃	
Shock		500m/s(50G)ineachX,Y,Zdirectionfor3times	
Vibration		1mm amplitudeatfre quenc y10~55Hz(for1min) ineachX.Y Zdirection for 2hours	
Protectiondegree		IP67(IECstandards)	
Connection		2mPVCcable	
Surface material		PBT	

Dimension

GTRIC®



- ※ With overload short circuit, reverse connection protection, surge absorption IP67 protection level, with the advantages of water resistance, oil resistance, high temperature resistance, etc.
- ※ LED display working status, more intuitive and obvious



Selection Guide

GTRIC®

LF	25	—	05	N	1
①	②		③	④	⑤
①Model:LF:Square Inductive Sensor LFD:Double lamp square inductive sensor					
②Sensing surface size:Nunmber:Sensing surface size25*25 (unit:mm)					
③Sensing distance:Number: Sensing distance (unit:mm)					
④Power supply:N: NPN 10-30VDC 3-wire、P: PNP 10-30VDC 3-wire、D: 10-30VDC 2-wire A: 90-250VAC 2-wire					
⑤Control output:1: Normally open、2: Normally closed					

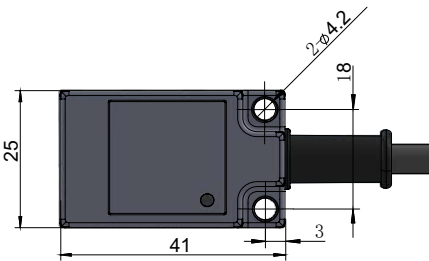
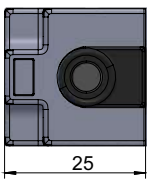
Specifications

GTRIC®

Specifications		
Model	DC3-wireNPN.NO	LF25-08N1
	DC3-wireNPN.NC	LF25-08N2
	DC3-wirePNP.NO	LF25-08P1
	DC3-wirePNP.NC	LF25-08P2
	DC2-wireNO	LF25-08D1
	DC2-wireNC	LF25-08D2
	AC2-wireNO	\
	AC2-wireNC	\
Sensing distance		8MM±10%
Setting distance(Sa)		0-7.2MM
Hysteresis		≤10%
Standar dsensing target		Magnetic metal (non-magnetic metal has a shorter detection distance)
Supply voltage		DC:10-30VDC;AC:90-250V
Leakage current		DC:≤0.6mA;AC:≤1.2mA
Response frequency(F)		500Hz (DC)20Hz (AC)
Consunption current		DC3-wireNPNPNP:≤10mA;DC2-wire:≤3mA;AC2-wire:≤2mA
Load current		200mA
Voltagedrop		DC3-wire NPN PNP:≤1V;DC 2-wire:≤3V;AC 2-wire:≤10V
Circuitprotection		Short-circuit,overload,reversepolarityprotection
Outputindicator		Power-on green LED,induction red LED
Ambienttemperature		-20~+70°C
Shock		500m/s(50G)ineachX,Y,Zdirectionfor3times
Vibration		1mm amplitudeatfre quenc y10~55Hz(for1min) ineachX.Y Zdirection for 2hours
Protectiondegree		IP67(IECstandards)
Connection		2mPVCcable
Sensingside		PBT

Dimension

GTRIC®



- ※ With overload short circuit, reverse connection protection, surge absorption IP67 protection level, with the advantages of water resistance, oil resistance, high temperature resistance, etc.
- ※ LED display working status, more intuitive and obvious



Selection Guide

GTRIC®

LF	30	—	05	N	1
①	②		③	④	⑤
①Model:LF:Square Inductive Sensor LFD:Double lamp square inductive sensor					
②Sensing surface size:Nunmber:Sensing surface size30*30 (unit:mm)					
③Sensing distance:Number: Sensing distance (unit:mm)					
④Power supply:N: NPN 10-30VDC 3-wire、P: PNP 10-30VDC 3-wire、D: 10-30VDC 2-wire A: 90-250VAC 2-wire					
⑤Control output:1: Normally open、2: Normally closed					

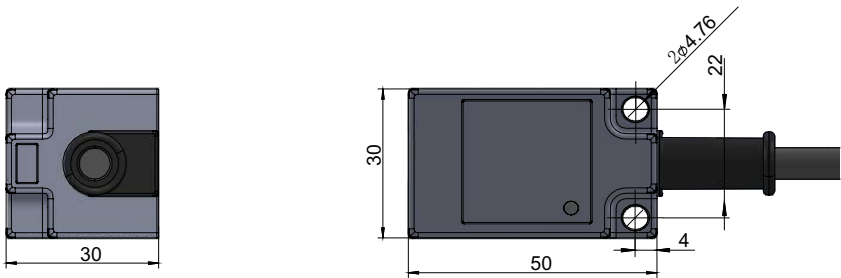
Specifications

GTRIC®

Specifications			
Model	DC3-wireNPN.NO	LF30-10N1	LF30-15N1
	DC3-wireNPN.NC	LF30-10N2	LF30-15N2
	DC3-wirePNP.NO	LF30-10P1	LF30-15P1
	DC3-wirePNP.NC	LF30-10P2	LF30-15P2
	DC2-wireNO	LF30-10D1	LF30-15D1
	DC2-wireNC	LF30-10D2	LF30-15D2
	AC2-wireNO	\	\
	AC2-wireNC	\	\
Sensing distance		5MM±10%	10MM±10%
Setting distance(Sa)		0-4.5MM	0-7.2MM
Hysteresis		≤10%	
Standar dsensing target		Magnetic metal (non-magnetic metal has a shorter detection distance)	
Supply voltage		DC:10-30VDC;AC:90-250V	
Leakage current		DC:≤0.6mA;AC:≤1.2mA	
Response frequency(F)		500Hz (DC)20Hz (AC)	
Consunption current		DC3-wireNPNPNP:≤10mA;DC2-wire:≤3mA;AC2-wire:≤2mA	
Load current		200mA	
Voltagedrop		DC3-wire NPN PNP:≤1V;DC 2-wire:≤3V;AC 2-wire:≤10V	
Circuitprotection		Short-circuit,overload,reversepolarityprotection	
Outputindicator		Power-on green LED,induction red LED	
Ambienttemperature		-20~+70℃	
Shock		500m/s(50G)ineachX,Y,Zdirectionfor3times	
Vibration		1mm amplitudeatfre quenc y10~55Hz(for1min) ineachX.Y Zdirection for 2hours	
Protectiondegree		IP67(IECstandards)	
Connection		2mPVCcable	
Sensingside		PBT	

Dimension

GTRIC®



- ※ With overload short circuit, reverse connection protection, surge absorption IP67 protection level, with the advantages of water resistance, oil resistance, high temperature resistance, etc.
- ※ LED display working status, more intuitive and obvious



Selection Guide

GTRIC®

LF	40	—	05	N	1
①	②		③	④	⑤
①Model:LF:Square Inductive Sensor LFD:Double lamp square inductive sensor					
②Sensing surface size:Nunmber:Sensing surface size40*40 (unit:mm)					
③Sensing distance:Number: Sensing distance (unit:mm)					
④Power supply:N: NPN 10-30VDC 3-wire、 P: PNP 10-30VDC 3-wire、 D: 10-30VDC 2-wire A: 90-250VAC 2-wire					
⑤Control output:1: Normally open、 2: Normally closed					

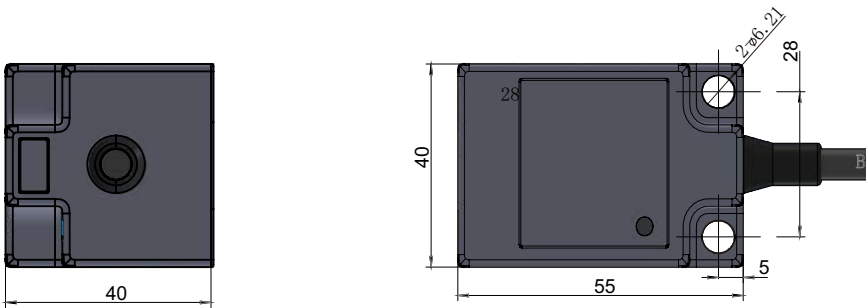
Specifications

GTRIC®

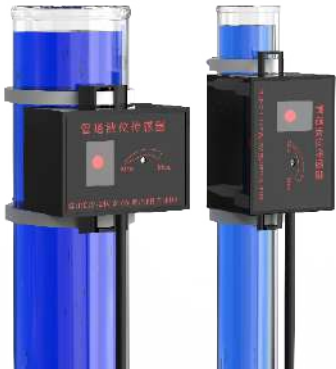
Specifications			
Model	DC3-wireNPN.NO	LF40-20N1	LF40-15N1
	DC3-wireNPN.NC	LF40-20N2	LF40-15N2
	DC3-wirePNP.NO	LF40-20P1	LF40-15P1
	DC3-wirePNP.NC	LF40-20P2	LF40-15P2
	DC2-wireNO	LF40-20D1	LF40-15D1
	DC2-wireNC	LF40-20D2	LF40-15D2
	AC2-wireNO	\	\
	AC2-wireNC	\	\
Sensing distance		20MM±10%	15MM±10%
Setting distance(Sa)		0-18MM	0-13.5MM
Hysteresis		≤10%	
Standar dsensing target		Magnetic metal (non-magnetic metal has a shorter detection distance)	
Supply voltage		DC:10-30VDC;AC:90-250V	
Leakage current		DC:≤0.6mA;AC:≤1.2mA	
Response frequency(F)		500Hz (DC) 20Hz (AC)	
Consunption current		DC3-wireNPNPNP:≤10mA;DC2-wire:≤3mA;AC2-wire:≤2mA	
Load current		200mA	
Voltagedrop		DC3-wire NPN PNP:≤1V;DC 2-wire:≤3V;AC 2-wire:≤10V	
Circuitprotection		Short-circuit,overload,reversepolarityprotection	
Outputindicator		Power-on green LED,induction red LED	
Ambienttemperature		-20~+70℃	
Shock		500m/s(50G)ineachX,Y,Zdirectionfor3times	
Vibration		1mm amplitudeatfre quenc y10~55Hz(for1min) ineachX.Y Zdirection for 2hours	
Protectiondegree		IP67(IECstandards)	
Connection		2mPVCcable	
Sensingside		PBT	

Dimension

GTRIC®



- ✧ It can detect various liquids in the tube. It is only suitable for non-metallic tubes and is not affected by the color of the liquid.
- ✧ It is suitable for a wide range of pipe diameters from $\phi 6$ to 13mm and $\phi 14$ to 26mm, with long service life and high stability.
- ✧ The sensitivity adjustment potentiometer can easily adjust the detection distance.



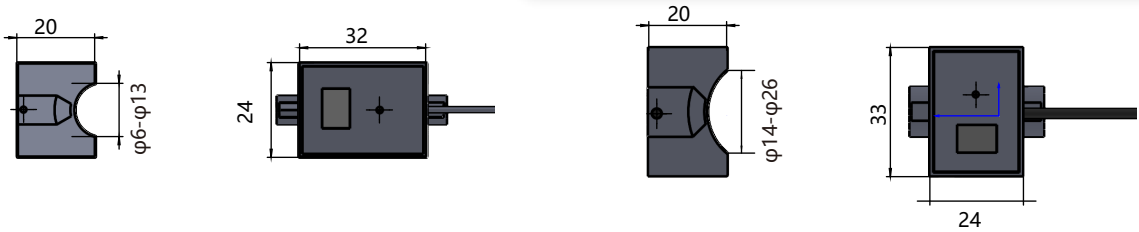
Specifications

GTRIC®

Specifications		
Model	GT-L15	GT-L30
Output mode	DC 3-Wire NPN/PNP.NO	
Detect objects	liquid	
Applicable pipe materials	Non-Metal	
Applicable pipe outer diameter	46-p13mm	p14-26mm
Applicable pipe wall thickness	< 1.5mm	< 2mm
Repeat distance accuracy	<±0.2mm	
Response difference	0.6-5mm	0.3-3mm
	Reference values that vary depending on pipe size and liquid	
Power supply voltage	12-24V DC	
Consumption current	< 12mA	
Load current	< 100mA	
Residual voltage	< 1V (when load current is 100mA, wire length: 2m)	
indicator light	Red indicator light	
ambient temperature range	When using: 0~+55℃ , when storing:-10~+65℃ (no icing or condensation)	
Ambient humidity range	During use and storage. 25-85%RH each (no condensation)	
Effect of temperature	1h ;the temperature range of 0℃~+55℃, at +23℃Detection level is +4mm (pure water and 20% sat water)	
Effect of voltage	Within the range of +10% of the rated power supply voltage range ±0.5mm of the detection level at the rated power supply voltage	
Vibration	1mm amplitude. frequency 10-55Hz (1min) in each XYZ direction for 2 hours	
Shock	500m/s (50G) 3 times each in X and YZ directions	
Protection level	IP66	
Connection method	Wire lead type (standard wire length 2m)	
protection circuit	Surge protection circuit, short circuit protection, reverse polarity protection	
shell material	Heat-resistant ABS	

Dimension

GTRIC®

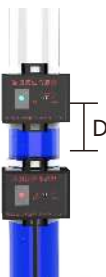


Usage requirements

GTRIC®

- ✧ When installing inline, side by side, or opposite, be sure to set it at a distance greater than the following to avoid interference between sensors.

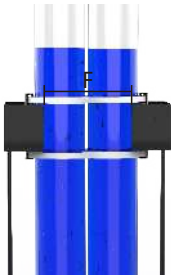
Tandem installation



Parallel installation



Relative installation



Note:Adjustment of the lower sensor will affect the upper sensor, so be sure to adjust the lower sensor first during use

Model	GT-L15	GT-L30
D	10MM	10MM
E	15MM	15MM
F	25MM	30MM

- ✧ With overload short circuit, reverse connection protection, surge absorption
- ✧ IP67 level of protection
- ✧ Can sense non-metallic objects



Selection Guide

GTRIC®

GTC	—	E2K	10	N	1
①		②	③	④	⑤

- ① **Trademark:**GTC:GTRIC
- ② **Modle:**E2K:Square Capacitor Sensor
- ③ **Sensing distance:**Number: Sensing distance (unit:mm)
- ④ **Power supply:**N: NPN 10-30VDC 3-wire、 P: PNP 10-30VDC 3-wire
- ⑤ **Control output:**1: Normally open、 2: Normally closed

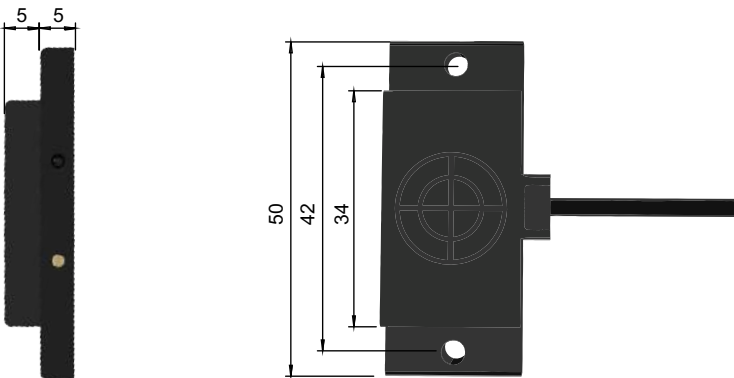
Specifications

GTRIC®

Specifications		
Model	NPN.NO	GTC-E2K-10N1
	NPN.NC	GTC-E2K-10N2
	PNP.NO	GTC-E2K-10P1
	PNP.NC	GTC-E2K-10P2
Mounting		1-10MM
Settingdistance(Sa)		0-7.5MM
Hysteresis		≤10%
Detect objects		Conductors and Dielectrics
Standardsensingtarget		Groundmetal plate50*50*1mm
Supplyvoltage		DC:10-30VDC
Consumption current		≤10mA(AT DC24V)
Switching capacity		NPN open collector maximum 100mA(at DC30V)
Residue voltage		≤1.5V(load current 100mA2M cable
Outputindicator		Red LED
loop protection		Reverse connection protectionload short circuit protection
Ambienttem perature		-10~+55℃(No freezing,No condensation)
Ambient humidity		35~85%RH
Connection		2mPVCcable
Protectiondegree		IP67(IECstandards)
Sensingside		ABS

Dimension

GTRIC®



- ※ Small size, suitable for all kinds of small space occasions
- ※ IP65 level of protection



Selection Guide

GTRIC®

LS	03	—	S	5	N	1
①	②	③	④	⑤	⑥	
① Model: LS: Laser Sensor						
② DIA. of sensing side: Number: DIA. of sensing side (unit:mm)						
③ Sensing type: S: Diffuse reflective type、R: Retroreflective type、D: Through-beam type						
④ Sensing distance: Number: Sensing distance (unit:cm)						
⑤ Control output: N: NPN、P: PNP						
⑥ Operation mode: 1: Light ON、2: Dark ON						

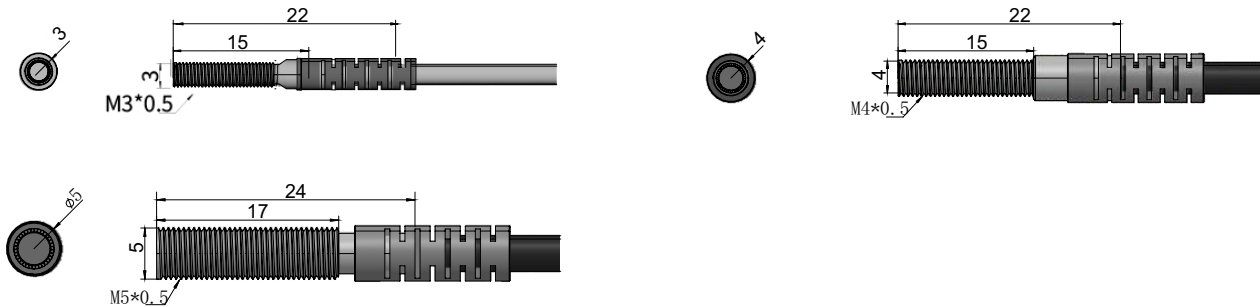
Specifications

GTRIC®

Specifications				
Model	NPN.NO	LS03-S5N1	LS04-S8N1	LS05-S12N1
	NPN.NC	LS03-S5N2	LS04-S8N2	LS05-S12N1
	PNP.NO	LS03-S5P1	LS04-S8P1	LS05-S12P1
	PNP.NC	LS03-S5P2	LS04-S8P2	LS05-S12P2
Detection type		Diffuse reflection	Diffusereflection	Diffuse reflection
Sensingdistance		0-50mm	0-80mm	0-120mm
Settingdistance(Sa)		0-1MM		
Spot and beam		beam invisible Spot visible size: 2/1/0.5mm		
Adjustment method		Tail potentiometer		
Hysteresis		≤10%		
Light pointing angle		3°		
Standard target		white card reficetion rate 90%		
Detection target		Opaque Objects and Transparent Objects		
Supplyvoltage		DC:10-30VDC		
Leakagecurrent		≤0.6mA		
Responsefrequency(F)		600Hz(DC)		
Ambient illuminanceincandescent		incandescent lights3000Luxsunshines100Lu		
Consunptioncurrent		Diffuse reflection and Retro-reflective≤15mA;Through-beam≤25mA		
Loadcurrent		200mA		
Voltagedrop		DC≤1V		
Circuitprotection		short-circuit.EMIprotectionrevers Epolarityprotection		
Outputindicator		Red LED		
Ambienttemperature		-20~+55℃		
Shock		500m/s(50G)ineachXYZdirectionfor3times		
Vibration		1mmamplitudeatfrequencv10~55Hz(forlmin)ineachXYZdirectionfor2hours		
Protectiondegree		IP65		
Connection		2mPVCcable or connector		
Meterial		Nickel-copperalloy		
Sensing side		PC		

Dimension

GTRIC®



- ※ Small size, suitable for all kinds of small space occasions
- ※ IP65 level of protection



Selection Guide

GTRIC®

LS	06	—	S	20	N	1
①	②		③	④	⑤	⑥

- ① **Model:**LS: Laser Sensor
- ② **DIA. of sensing side:**Number: DIA. of sensing side (unit:mm)
- ③ **Sensing type:**S: Diffuse reflective type R: Retroreflective type D: Through-beam type
- ④ **Sensing distance:**Number: Sensing distance (unit:cm)
- ⑤ **Control output:**N: NPN P: PNP
- ⑥ **Operation mode:**1: Light ON 2: Dark ON

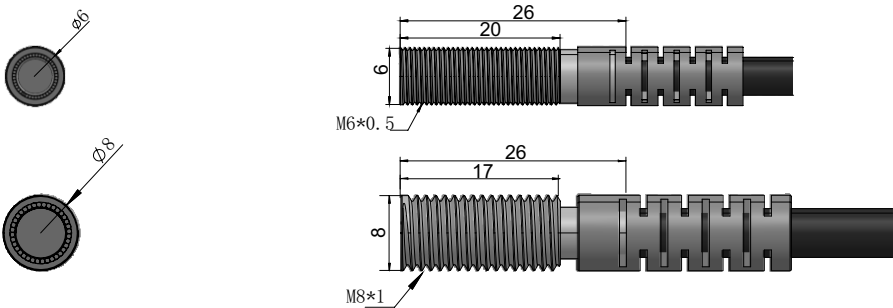
Specifications

GTRIC®

Specifications			
Model	NPN.NO	LS06-S20N1	LS08-S20N1
	NPN.NC	LS06-S20N2	LS08-S20N2
	PNP.NO	LS06-S20P1	LS08-S20P1
	PNP.NC	LS06-S20P2	LS08-S20P2
Detection type		Diffuse reflection	Diffuse reflection
Sensing distance		0-200mm	0-200mm
Setting distance (Sa)		0-1MM	
Spot and beam		beam invisible Spot visible size: 2/1/0.5mm	
Adjustment method		Tail potentiometer	
Hysteresis		≤10%	
Light pointing angle		3°	
Standard target		white card reficetion rate 90%	
Detection target		Opaque Objects and Transparent Objects	
Supply voltage		DC:10-30VDC	
Leakage current		≤0.6mA	
Response frequency (F)		600Hz(DC)	
Ambient illuminance incandescent		incandescent lights 3000Lux sunshines 100Lu	
Consunption current		Diffuse reflection and Retro-reflective ≤15mA; Through-beam ≤25mA	
Load current		200mA	
Voltage drop		DC ≤1V	
Circuit protection		short-circuit. EMl protection revers Epolarity protection	
Output indicator		Red LED	
Ambient temperature		-20~+55℃	
Shock		500m/s(50G) ineach XYZ direction for 3 times	
Vibration		1mm amplitude at frequency 10~55Hz (for lmin) ineach XYZ direction for 2 hours	
Protection degree		IP65	
Connection		2m PVC cable or connector	
Material		Nickel-copper alloy	
Sensing side		PC	

Dimension

GTRIC®



- ※ Small size, suitable for all kinds of small space occasions
- ※ IP65 level of protection



Selection Guide

GTRIC®

LS	03	—	D	20M	N	1
①	②	③	④	⑤	⑥	
① Model: LS: Laser Sensor						
② DIA. of sensing side: Number: DIA. of sensing side (unit:mm)						
③ Sensing type: S: Diffuse reflective type、R: Retroreflective type、D: Through-beam type						
④ Sensing distance: Number: Sensing distance (unit:M)						
⑤ Control output: N: NPN、 P: PNP						
⑥ Operation mode: 1: Light ON、 2: Dark ON						

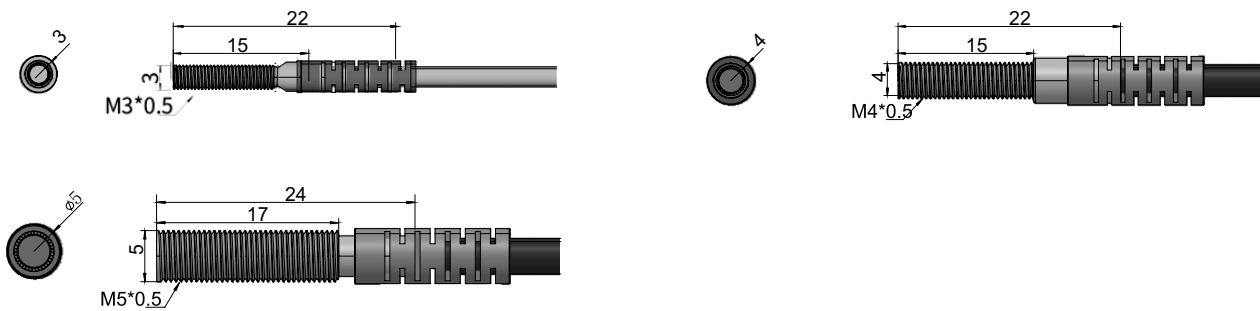
Specifications

GTRIC®

Specifications				
Model	NPN.NO	LS03-D20MN1	LS04-D20MN1	LS05-D20MN1
	NPN.NC	LS03-D20MN2	LS04-D20MN2	LS05-D20MN2
	PNP.NO	LS03-D20MP1	LS04-D20MP1	LS05-D20MP1
	PNP.NC	LS03-D20MP2	LS04-D20MP2	LS05-D20MP2
Detection type		Through-beam		
Spot and beam		beam invisible Spot visible size: 2/1/0.5mm		
Sensing distance		20 M		
Hysteresis		≤10%		
Light pointing angle		3°		
Standard target		white card reficetion rate 90%		
Detection target		Opaque Objects and Transparent Objects		
Supply voltage		DC:10-30VDC		
Leakage current		≤0.6mA		
Response frequency(F)		600Hz(DC)		
Ambient illuminance incandescent		incandescent lights3000Lux sunshines100Lu		
Consunpuoncuirent		Through-beam:≤25mA		
Load current		200mA		
Voltage drop		DC≤1V		
Circuit protection		short-circuit.EMI protection revers Epolarity protection		
Output indicator		Red LED		
Ambient temperature		-20~+55		
Shock		500m/s(50G)ineachX,YZ direction for 3times		
Vibration		1mm amplitude at frequency 10~55Hz (for 1min)ineach XYZ direction for 2hours		
Protection degree		IP65		
Connection		2m PVC cable or connector		
Meterial		Nickel-copper alloy		

Dimension

GTRIC®



- ※ Small size, suitable for all kinds of small space occasions
- ※ IP65 level of protection



Selection Guide

GTRIC®

LS	06	—	D	20M	N	1
①	②		③	④	⑤	⑥
① Model: LS: Laser Sensor						
② DIA. of sensing side: Number: DIA. of sensing side (unit:mm)						
③ Sensing type: S: Diffuse reflective type、R: Retroreflective type、D: Through-beam type						
④ Sensing distance: Number: Sensing distance (unit:M)						
⑤ Control output: N: NPN、P: PNP						
⑥ Operation mode: 1: Light ON、2: Dark ON						

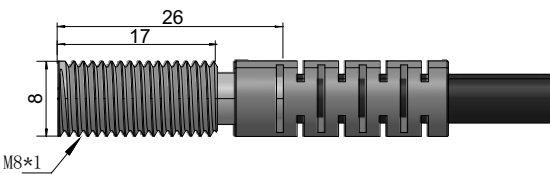
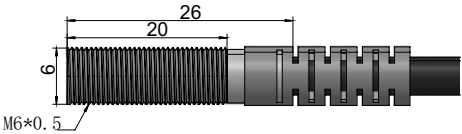
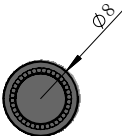
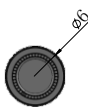
Specifications

GTRIC®

Specifications			
Model	NPN.NO	LS06-D20MN1	LS08-D20MN1
	NPN.NC	LS06-D20MN2	LS08-D20MN2
	PNP.NO	LS06-D20MP1	LS08D20MP1
	PNP.NC	LS06-D20MP2	LS08-D20MP2
Detection type		Through-beam	
Spot and beam		beam invisible Spot visible size: 2/1/0.5mm	
Sensingdistance		20 M	
Hysteresis		≤10%	
Lightpointing angle		3°	
Standard target		white card reficetion rate 90%	
Detection target		Opaque Objects and Transparent Objects	
Supplyvoltage		DC:10-30VDC	
Leakagecurrent		≤0.6mA	
Responsefrequency(F)		600Hz(DC)	
Ambient illuminance incandescent		incandescent lights3000Lux sunshines100Lu	
Consunpuoncuirent		Through-beam:≤25mA	
Loadcurrent		200mA	
Voltagedrop		DC≤1V	
Circuitprotection		short-circuit.EMIprotectionreversEpolarityprotection	
Outputindicator		Red LED	
Ambienttemperature		-20~+55	
Shock		500m/s(50G)ineachX,YZdirectionfor3times	
Vibration		1mmamplitudeatfrequency10~55Hz(forlmin)ineachXYZdirectionfor2hours	
Protectiondegree		IP65	
Connection		2m PVC cable or connector	
Meterial		Nickel-copperalloy	

Dimension

GTRIC®



- ※ Small size, suitable for all kinds of small space occasions
- ※ IP65 level of protection



Selection Guide

GTRIC®

LS	06	—	D	10	N	1	—	TZ
①	②		③	④	⑤	⑥		⑦
① Model :LS: Laser Sensor								
② DIA. of sensing side :Number: DIA. of sensing side (unit:mm)								
③ Sensing type :S: Diffuse reflective type、R: Retroreflective type、D: Through-beam type								
④ Sensing distance :Number: Sensing distance (unit:cm)								
⑤ Control output :N: NPN、 P: PNP								
⑥ Operation mode :1: Light ON、 2: Dark ON								
⑦ Induction direction :□: standard type、 TZ: Right angle 90°								

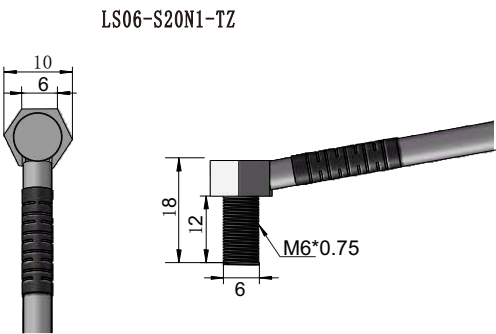
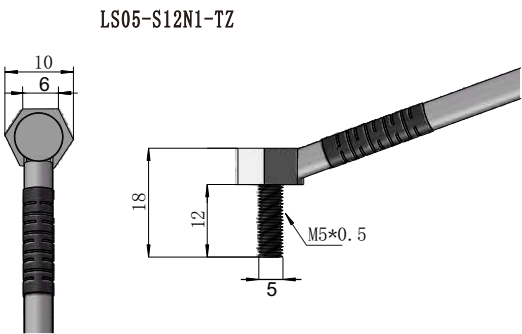
Specifications

GTRIC®

Specifications					
Model	NPN.NO	LS05-S12N1-TZ	LS06-S20N1-TZ	LS05-D10MN1-TZ	LS06-D10MN1-TZ
	NPN.NC	LS05-S12N2-TZ	LS06-S20N2-TZ	LS05-D10MN2-TZ	LS06-D10MN2-TZ
	PNP.NO	LS05-S12P1-TZ	LS06-S20P1-TZ	LS05-D10MP1-TZ	LS06-D10MP1-TZ
	PNP.NC	LS05-S12P2-TZ	LS06-S20P2-TZ	LS05-D10MP2-TZ	LS06-D10MP2-TZ
Detection type		Diffuse reflection		Through-beam	
Sensing distance		0-120mm	0-20mm	10M	10M
Setting distance(Sa)		0-1mm	0-1mm	0-1mm	0-1mm
Adjustment method		Tail potentiometer		/	
Spot and beam		beam invisible Spot visible size: 2/1/0.5mm			
Hysteresis		≤10%			
Light pointing angle		3°			
Standard target		white card reflection rate 90%			
Detection target		Opaque Objects and Transparent Objects			
Supply voltage		DC:10-30VDC			
Leakage current		≤0.6mA			
Response frequency(F)		600Hz(DC)			
Ambient illuminance incandescent		incandescent lights3000Lux sunshine≤100Lu			
Consumption current		Diffuse reflection and;Through-beam:≤25mA			
Load current		200mA			
Voltage drop		DC≤1V			
Circuit protection		short-circuit.EMI protection revers Epolarity protection			
Output indicator		Red LED			
Ambient temperature		-20~+55			
Shock		500m/s(50G)ineachX,YZdirectionfor3times			
Vibration		1mm amplitudeat frequency10~55Hz(for1min)ineachXYZdirectionfor2hours			
Protection degree		IP65			
Connection		2m PVC cable or connector			
Material		Nickel-copper alloy			

Dimension

GTRIC®



- ※ Built-in surge protection power supply, reverse connection protection circuit
- Red LED status indicator for easy identification of operation status
- ※ IP65 level of protection



Selection Guide

GTRIC®

LS	12	—	S	15	N	1
①	②		③	④	⑤	⑥
① Model: LS: Laser Sensor						
② DIA. of sensing side: Number: DIA. of sensing side (unit:mm)						
③ Sensing type: S: Diffuse reflective type、R: Retroreflective type、D: Through-beam type						
④ Sensing distance: Number: Sensing distance (unit:cm)						
⑤ Control output: N: NPN、 P: PNP						
⑥ Operation mode: 1: Light ON、 2: Dark ON						

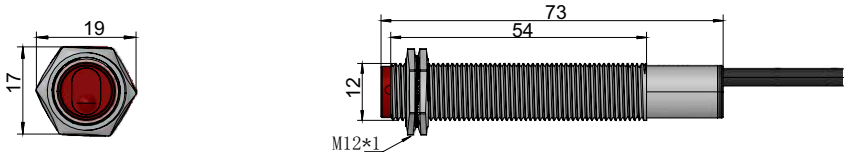
Specifications

GTRIC®

Specifications				
Model	NPN.NO	LS12-S15N1	LS12-R6MN1	LS12-D25MN1
	NPN.NC	LS12-S15N2	LS12-R6MN2	LS12-D25MN2
	PNP.NO	LS12-S15P1	LS12-R6MP1	LS12-D25MP1
	PNP.NC	LS12-S15P2	LS12-R6MP2	LS12-D25MP2
Detection type		Diffuse reflection	Retro-reflective	Through-beam
Sensing distance		0-15CM	0-6M	0-25M
Setting distance(Sa)		0-1MM	0-1MM	0-1MM
Adjustment method		Tail potentiometer		
Spot and beam		beam invisible Spot visible size: 2/1/0.5mm		
Hysteresis		≤10%		
Light pointing angle		3°		
Standard target		white card reficition rate 90%		
Detection target		Opaque Objects and Transparent Objects		
Supply voltage		DC:10-30VDC		
Leakage current		≤0.6mA		
Response frequency(F)		600Hz(DC)		
Ambient illuminance incandescent		incandescent lights3000Lux sunshines≤100Lu		
Consunption current		Diffuse reflection and Retro-reflective<15mA Through-beam<25mA		
Load current		200mA		
Voltage drop		DC≤1V		
Circuit protection		short-circuit.EMI protection reverse polarity protection		
Output indicator		Red LEd		
Ambient temperature		-20~+55°C		
Shock		500m/s(50G) ineach X,Y,Z direction for 3times		
Vibration		1mm amplitude atfre quency10~55Hz(for1min) ineachX.Y Zdirection for 2hours		
Protection degree		IP65		
Connection		2mPVC cable or connector		
Meterial		Nickel-copper alloy		
Sensing side		PC		

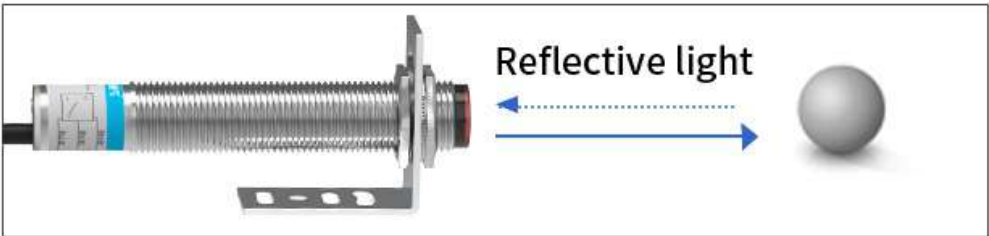
Dimension

GTRIC®



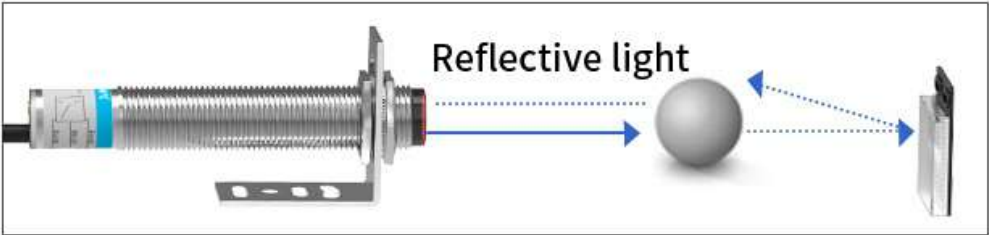
Diffuse reflection

Rated distance [Sn]:**0-15CM**



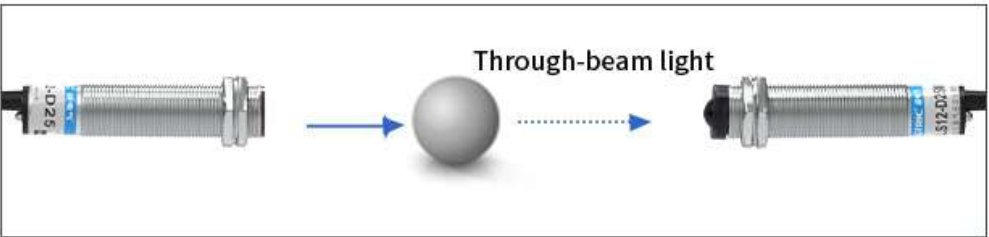
Retro-reflective

Rated distance [Sn]:**6M**



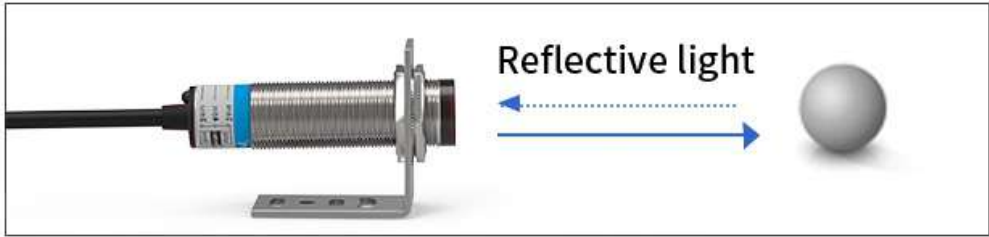
Through-beam

Rated distance [Sn]:**25M**



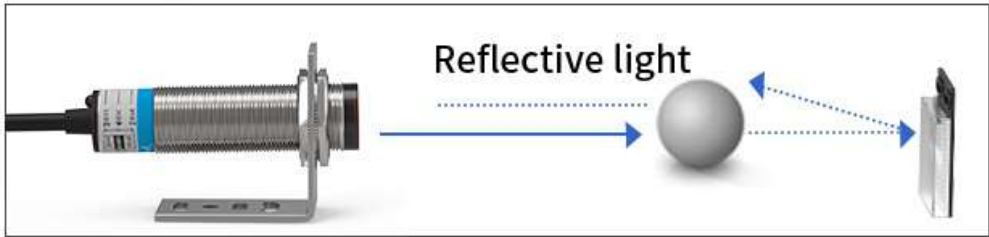
Diffuse reflection

Rated distance [Sn]:**0-30CM**



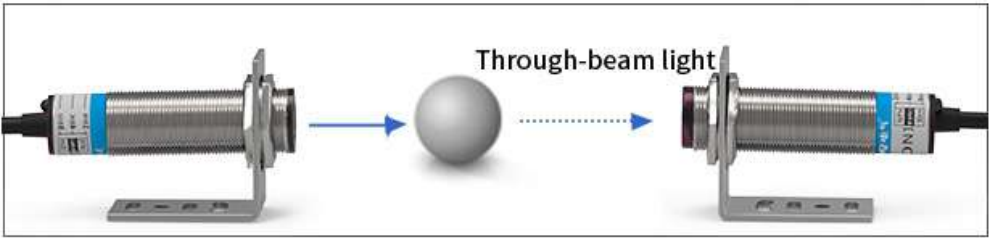
Retro-reflective

Rated distance [Sn]:**8M**



Through-beam

Rated distance [Sn]:**30M**



- ※ Built-in surge protection power supply, reverse connection protection circuit
- Red LED status indicator for easy identification of operation status
- ※ IP65 level of protection



Selection Guide

GTRIC®

LS	18	—	S	30	N	1
①	②		③	④	⑤	⑥
① Model: LS: Laser Sensor						
② DIA. of sensing side: Number: DIA. of sensing side (unit:mm)						
③ Sensing type: S: Diffuse reflective type、R: Retroreflective type、D: Through-beam type						
④ Sensing distance: Number: Sensing distance (unit:cm)						
⑤ Control output: N: NPN、 P: PNP						
⑥ Operation mode: 1: Light ON、 2: Dark ON						

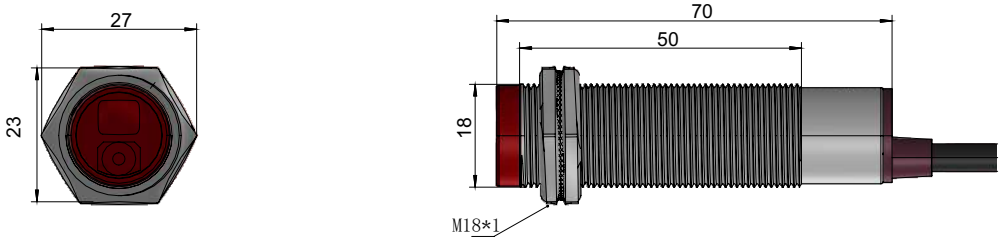
Specifications

GTRIC®

Specifications				
Model	NPN.NO	LS18-S30N1	LS18-R8MN1	LS18-D30MN1
	NPN.NC	LS18-S30N2	LS18-R8MN2	LS18-D30MN2
	PNP.NO	LS18-S30P1	LS18-R8MP1	LS18-D30MP1
	PNP.NC	LS18-S30P2	LS18-R8MP2	LS18-D30MP2
Detection type		Diffuse reflection	Retro-reflective	Through-beam
Sensing distance		0-30CM	0-8M	0-30M
Setting distance(Sa)		0-1MM	0-1MM	
Adjustment method		Tail potentiometer		
Spot and beam		beam invisible Spot visible size: 2/1/0.5mm		
Hysteresis		≤10%		
Light pointing angle		3°		
Standard target		white card reficetion rate 90%		
Detection target		Opaque Objects and Transparent Objects		
Supply voltage		DC:10-30VDC		
Leakage current		≤0.6mA		
Response frequency(F)		600Hz(DC)		
Ambient illuminance incandescent		incandescent lights3000Lux sunshines≤100Lu		
Consunption current		Diffuse reflection and Retro-reflective<15mA Through-beam<25mA		
Load current		200mA		
Voltage drop		DC≤1V		
Circuit protection		short-circuit.EMI protection reverse polarity protection		
Output indicator		Red LED		
Ambient temperature		-20~+55°C		
Shock		500m/s(50G) ineach X,Y,Z direction for 3times		
Vibration		1mm amplitude at fre quency 10~55Hz(for 1min) ineach X.Y Z direction for 2hours		
Protection degree		IP65		
Connection		2mPVC cable or connector		
Meterial		Nickel-copper alloy		
Sensing side		PC		

Dimension

GTRIC®



- ❖ Short, medium and long detection distances are optional
- ❖ Small volume, small light spot and high precision.
- ❖ It has dual output of switching value and analog value at the same time.
- ❖ Multiple functions, multiple detection modes, applicable to many applications.

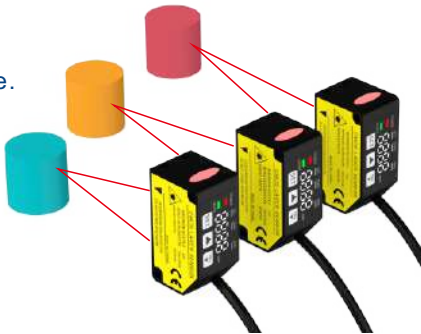
- General detection mode

1 point teaching mode

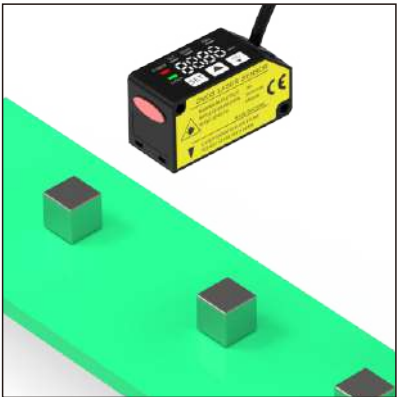
2 point teaching mode
- 3 point teaching mode

Ascending differential mode

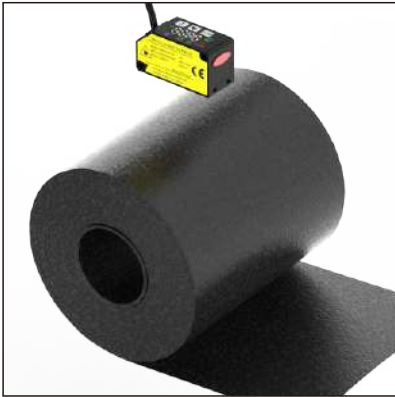
Descending differential mode



Application example



Check whether there is micro flat pad



Detect the residual volume of coil material



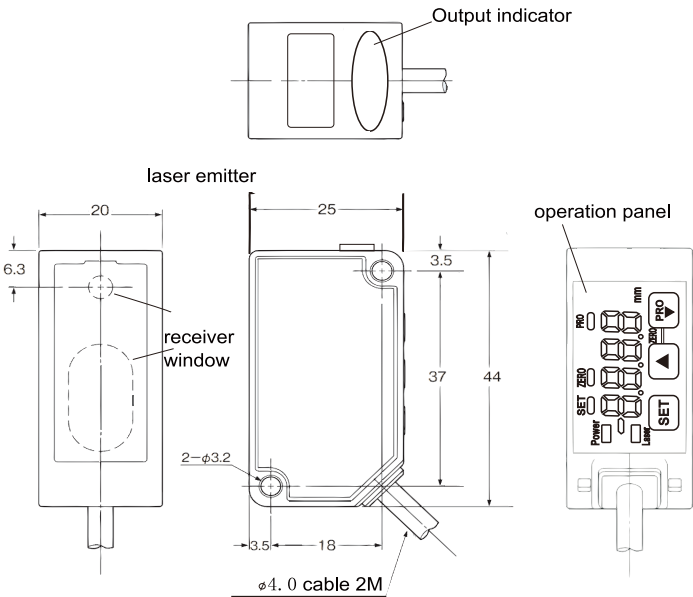
Test the bending amount of sheet material

Dimension



Appearance	Type	Model	Detection distance	Output mode	Repeatability
	Short distance type	LSZ-S030MN	30±5mm	Switch+Analog Output	10μm
		LSZ-S030MP	30±5mm	Switch+Analog Output	10μm
		LSZ-S050MN	50±15mm	Switch+Analog Output	50μm
		LSZ-S050MP	50±15mm	Switch+Analog Output	50μm
	Medium distance type	LSZ-S100N	100±35mm	Switch Output	100μm
		LSZ-S100MN	100±35mm	Switch+Analog Output	100μm
		LSZ-S100P	100±35mm	Switch Output	100μm
		LSZ-S100MP	100±35mm	Switch+Analog Output	100μm
		LSZ-S200N	200±80mm	Switch Output	200μm
		LSZ-S200MN	200±80mm	Switch+Analog Output	200μm
		LSZ-S200P	200±80mm	Switch Output	200μm
		LSZ-S200MP	200±80mm	Switch+Analog Output	200μm
	Long distance type	LSZ-S400N	400±200mm	Switch Output	400μm/800μm
		LSZ-S400MN	400±200mm	Switch+Analog Output	400μm/800μm
		LSZ-S400P	400±200mm	Switch Output	400μm/800μm
		LSZ-S400MP	400±200mm	Switch+Analog Output	400μm/800μm

Dimensions

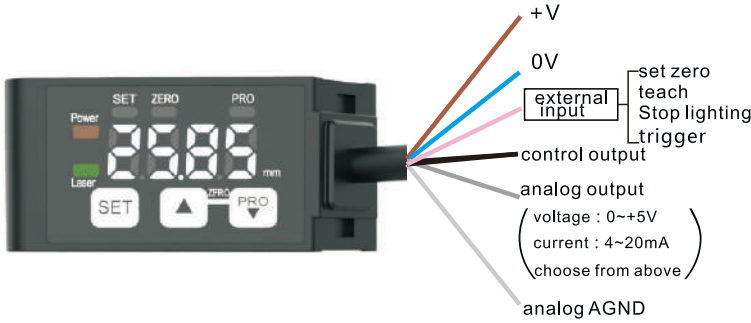


Specifications									
Model	Type	Dual Output	Dual Output	switch output	Dual Output	switch output	Dual Output	switch output	Dual Output
	NPN Output	LSZ-S030MN	LSZ-S050MN	LSZ-S100N	LSZ-S100MN	LSZ-S200N	LSZ-S200MN	LSZ-S400N	LSZ-S400MN
	PNP Output	LC-S030MP	LSZ-S050MP	LSZ-S100P	LSZ-S100MP	LSZ-S200P	LSZ-S200MP	LSZ-S400P	LSZ-S400MP
Measuring center distance		30 MM	50 MM	100 MM		200 MM		400MM	
Detection scope		±5mm	±15mm	±35mm		±80mm		±200mm	
Repeatability		10µm	50µm	100µm		200µm		400µm(Measuring distance 200mm-400mm) 800µm(Measuring distance 400mm-600mm)	
straight line deviation		±0.2%F.S.	±0.2%F.S.	±0.2%F.S.		±0.2%F.S.		±0.2%F.S.(Measuring distance 200mm-400mm) ±0.3%F.S.(Measuring distance 400mm-600mm)	
Temperature characteristic		0.03%F.s./°C							
light source		Red semiconductor laser Class 2, maximum output: 1mW, wavelength of light beam: 655nm							
Beam diameter		Aboutφ50µm	Aboutφ100µm	Aboutφ150µm		Aboutφ300µm		Aboutφ500µm	
supply voltage		12V~24V DC+10% pulse P-P10%							
Consumption current		40mAor less (when the power supply voltage is 24V DC), 60mAor less (when the power supply voltage is 12V DC)							
Control Output		NPN Output NPN Open Collector Transistors Maximum inflow current: 50mA Applied voltage: below 30VDC (between control output-0V) Residual voltage: 15V or less (Inflow current 50mAor less) Leakage current: below 0.1mA				PNP Output NPN Open Collector Transistors Maximum inflow current: 50mA Applied voltage: below 30VDC (between control output-+V) Residual voltage: 15V or less (Inflow current 50mAor less) Leakage current: below 0.1mA			
OutputAction		ON when light is received/ON when no light is received, switchable							
Short circuit protection		Equipped (automatic recovery type)							
Analog output	Voltage analog output (Alarm: +5.2V)	Output range: 0V-5V Output Impedance: 1000Ω		Output range: 0V-5V Output Impedance: 1000Ω		Output range: 0V-5V Output Impedance: 1000Ω		Output range: 0V-5V Output Impedance: 1000Ω	
	Voltage analog output (Alarm: 0mA)	Output range: 4-20mA Load impedance: 3000Ω or less		Output range: 4-20mA Load impedance: 3000Ω or less		Output range: 4-20mA Load impedance: 3000Ω or less		Output range: 4-20mA Load impedance: 3000Ω or less	
Response time		1.5ms/5ms/10ms switchable							
External Output		NPN/PNP non-contact input, effective: 0V~+1.2V DC input impedance: 10KQ							
protective structure		IP67(IEC)							
Degree of defacement		2							
Operating temperature		-10°C~+40°C (be careful not to condense or freeze), during storage: -20°C~+60°C							
Use environment humidity		35%~85%RH, during storage: 35%~85%RH							
Use ambient illuminance		Incandescent lamp: the illuminance of the light-receiving surface is below 3,000Lx							
Use the elevation		Below 2000M							
Cable		2m with 5-core composite cable in 0.15mm							
material		Body shell: aluminum casting Front cover: acrylic							
Applicable specifications		Conforms to EMC Directive							

*Supply voltage: 24V DC, ambient temperature: +20 C, response time: 10ms, and analogue output value of measurement center distance are used for unspecified measurement conditions. The subject is white paper.
Object: white paper



✧ Wiring diagram



For more detailed instructions, please contact our company

※ Sensing distance adjustment , visible light spot
Double indicator light



Selection Guide

GTRIC®

LSZ	—	S	30	N	1
①		②	③	④	⑤

- ①**Model**: LSZ: Square Laser Sensor
- ②**Sensing type**:S:Diffuse reflective type、D: Through-beam type
- ③**Sensing distance**:Number: Sensing distance(unit: cm)
- ④**Control output**:N: NPN、P: PNP
- ⑤**Operation mode**:1: Light ON、2: Dark ON

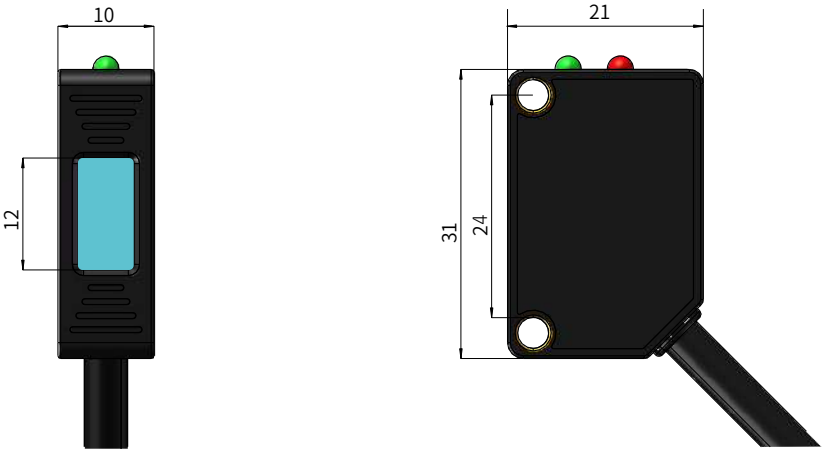
Specifications

GTRIC®

Specifications			
Model	NPN.NO	LSZ-S30N1	LSZ-D10MN1
	NPN.NC	LSZ-S30N2	LSZ-D10MN2
	PNP.NO	LSZ-S30P1	LSZ-D10MP1
	PNP.NC	LSZ-S30P2	LSZ-D10MP2
Detection type		Diffuse reflection	Through-beam
Sensingdistance		0-30CM	10M
Switching Hyseresis		<15%	\
light source		Visible spot	
Supply voltage		DC:10-30VDC	
Max. Load Current		200mA	
No Load Current		<30mA	<10mA
Response Time		<5ms	
Voltage Drop		<2.5V	<1.5V
Switching Frequency		100Hz	
Output indicator		Power indicator: LED (Green) Operation indicator: LED (Red)	
The Max. Intensity		10.000Lux	
Operating Temperature		0-55℃	
Environmental Humidity		35to 85%RH	
Power-on Protection		YES	
Short Circuit Protection		YES	
Shock		500m/s(50G) ineach X,Y,Z direction for 3times	
Vibration		1mm amplitudeatfre quency10~55Hz(for1min) ineachX.Y Zdirection for 2hours	
Protectiondegree		IP65	
Connection		2m PVC cable	
Material		PBT	

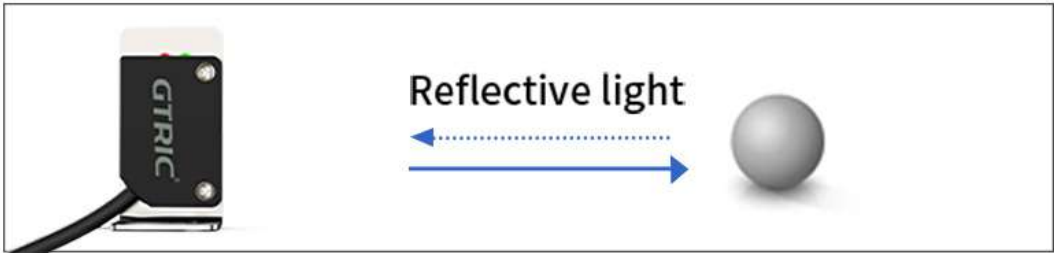
Dimension

GTRIC®



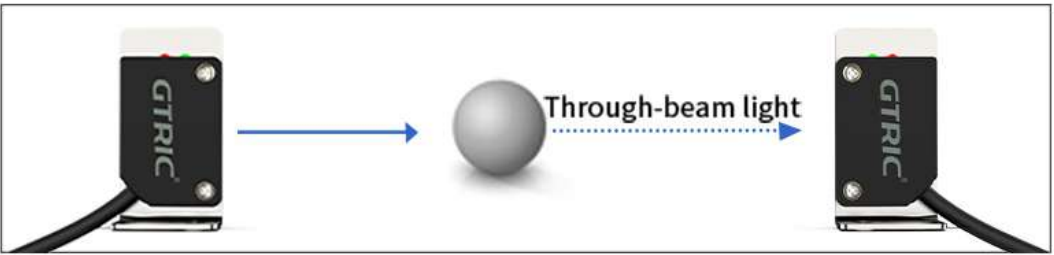
Diffuse reflection

Rated distance [Sn]: **0-30CM**



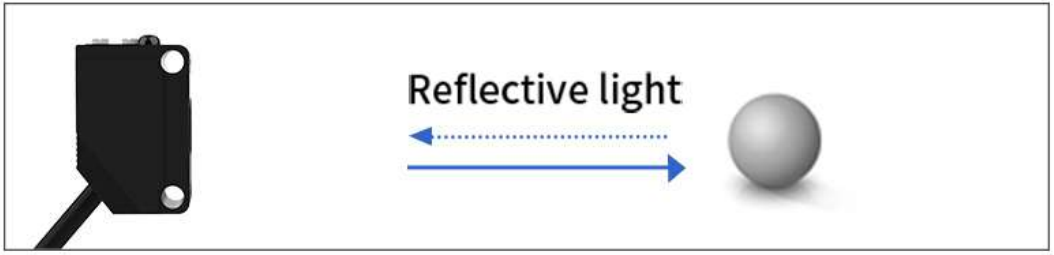
Through-beam

Rated distance [Sn]: **0-10M**



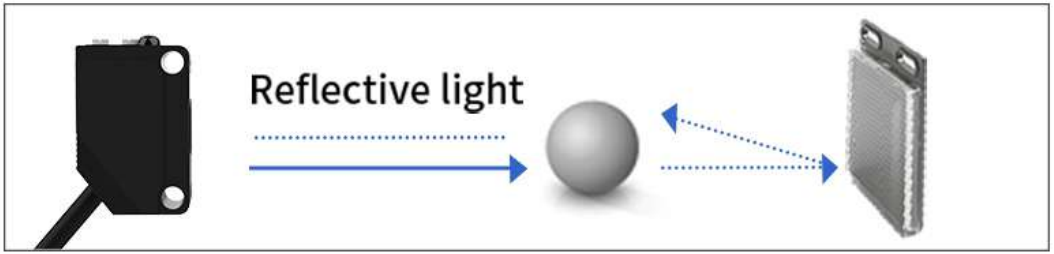
Diffuse reflection

Rated distance [Sn]: **0-30CM**



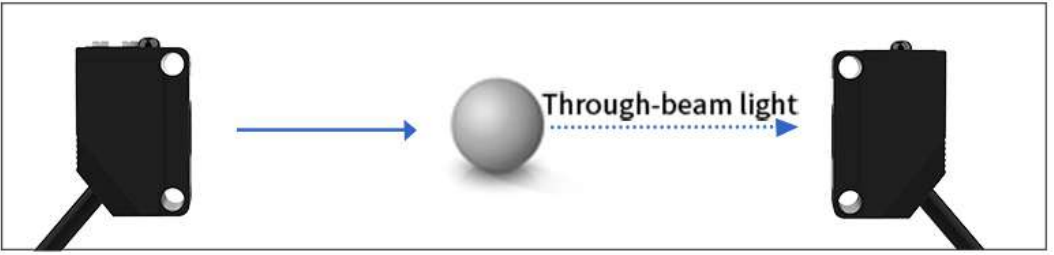
Retro-reflective

Rated distance [Sn]: **0-4M**



Through-beam

Rated distance [Sn]: **0-10M**



※ Double potentiometer can be switched freely
NO+NO, adjustable distance



Selection Guide

GTRIC®

E3Z	—	S	30	N	3
①		②	③	④	⑤

- ①**Model:**E3Z: Square Photoelectric Sensor
- ②**Sensing type:**S:Diffuse reflective type、R: Retroreflective type、D: Through-beam type
- ③**Sensing distance:**Number: Sensing distance(unit: cm)
- ④**Control output:**N: NPN、P: PNP
- ⑤**Operation mode:**3: Light ON or Dark ON

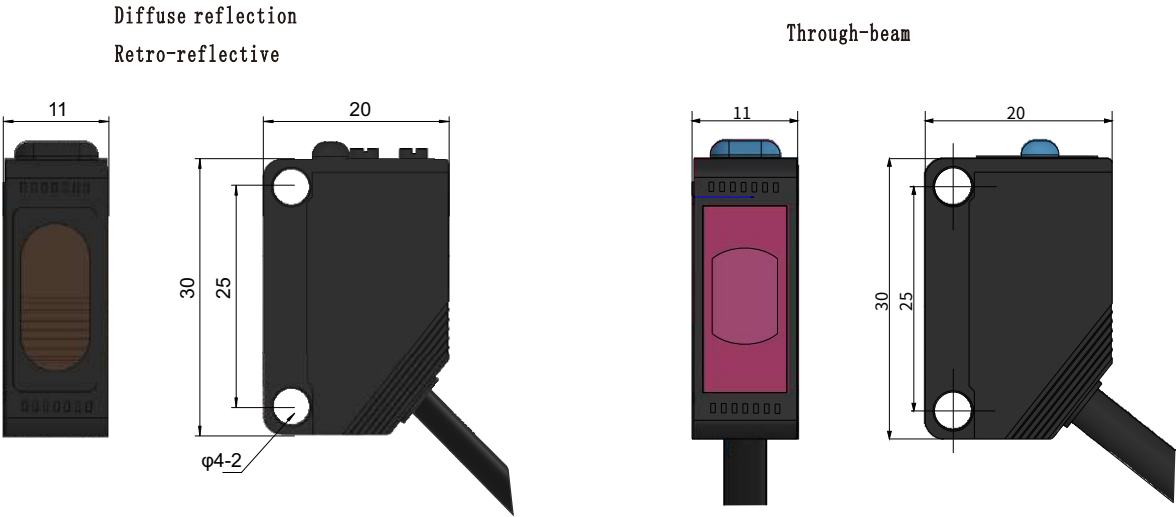
Specifications

GTRIC®

Specifications				
Model	NPN NO/NC	E3Z-S30N3	E3Z-R4MN3	E3Z-D10MN3
	PNP.NO+NC	E3Z-S30P3	E3Z-R4MP3	E3Z-D10MP3
Detection type	Diffuse reflection		Retro-reflective	Through-beam
Sensing distance	0-30CM		0-4M	10M
Hysteresis distance	≤detection distance 80%			
Supply voltage	DC:10-30VDC			
light source	invisible light			
Standard targe	White card reficetion rate 90%			
Detection target	Opaque Objects and Transparent Objects			
Response frequency(F)	1000Hz			
Consumption current	<30MA			
load current	100MA			
Residual voltage	<1V			
Circuit protection	Short-circuit.EMI protectionrevers Epolarity protection			
Output indicator	Power indicator:LED(Green)Operation indicator:LED(Red)			
Ambient temperature	-25°C~+70°C			
Shock	500m/s(50G) ineach X,Y,Z direction for 3times			
Vibration	1mm amplitudeatfre quency10~55Hz(for1min) ineachX.Y Zdirection for 2hours			
Protection degree	IP66			
Connection	2m PVC cable			
Material	ABS			

Dimension

GTRIC®



- ※ Surge absorption, reverse connection protection
- ※ Adjustable sensing distance, can sense transparent objects



Selection Guide

GTRIC®

E3F	–	18	S	50	N	1		
①		②	③	④	⑤	⑥	⑦	⑧
① Model: E3F: Photoelectric Sensor								
② DIA. of sensing side: Number: DIA. of sensing side (unit:mm)								
③ Sensing type: S: Diffuse reflective type、R: Retroreflective type、D: Through-beam type								
④ Sensing distance: Number: Sensing distance (unit:cm)								
⑤ Control output: N: NPN、P: PNP								
⑥ Operation mode: 1: Light ON、2: Dark ON								

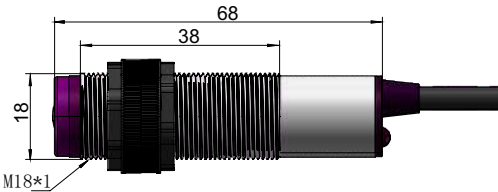
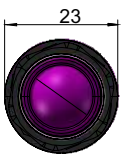
Specifications

GTRIC®

Specifications						
Model	NPN.NO	E3F-18S10N1	E3F-18S50N1	E3F-18S3MN1	E3F-18R2MN1	E3F-18D5MN1+L5
	NPN.NC	E3F-18S10N2	E3F-18S50N2	E3F-18S3MN2	E3F-18R2MN2	E3F-18D5MN2+L5
	NPN.NO+NC	E3F-18S10N3	E3F-18S50N3	/	E3F-18R2MN3	E3F-18D5MN3+L5
	PNPNO	E3F-18S10P1	E3F-18S50P1	E3F-18S3MP1	E3F-18R2MP1	E3F-18D5MP1+L5
	PNPNC	E3F-18S10P2	E3F-18S50P2	E3F-18S3MP2	E3F-18R2MP2	E3F-18D5MP2+L5
	PNP.NO+NC	E3F-18S10P3	E3F-18S50P3	/	E3F-18R2MP3	E3F-18D5MP3+L5
	AC2-wireNO	E3F-18S10A1	E3F-18S50A1	/	E3F-18R2MA1	E3F-18D5MA1+L5
	AC2-wireNC	E3F-18S10A2	E3F-18S50A2	/	E3F-18R2MA2	E3F-18D5MA2+L5
Detection type		Diffuse reflection	Diffuse reflection	Diffuse reflectance	Retro-reflective	Through-beam
Sensingdistance		0-10CM	0-50CM	0-3M	0-2M	5M
Settingdistance(Sa)		0-8CM	0-45CM	0-3M	0-2M	0-5M
Adjustment method		Tail potentiometer				
Hysteresis		≤10%				
Light pointing angle		3°-20°				
Standard target		White card reficetion rate 90%				
Detection target		Opaque Objects and Transparent Objects				
Supplyvoltage		DC:10-30VDC;AC:90-250V				
Leakagecurrent		≤0.6mA				
Responsefrequency(F)		600Hz(DC)25Hz(AC)				
Ambient illuminance		incandescent lights300Luxsunshine≤100Lu				
Consunptioncurrent		Diffuse reflection and Retro-reflectives≤15mA:Through-beams25mA				
Loadcurrent		200mA				
Voltagedrop		DC≤1VAC≤7V				
Circuitprotection		Short-circuitEMI protectionreversepolarityprotection				
Outputindicator		Red LED				
Ambienttemperature		-20~+55℃				
Shock		500m/s(50G)ineachX,Y,Zdirectionfor3times				
Vibration		1mm amplitudeatfre quenc y10~55Hz(for1min) ineachX.Y Zdirection for 2hours				
Protectiondegree		IP65				
Connection		2mPVCcable			M12 connector	
Meterial		ABS				
Sensinaside		PC				

Dimension

GTRIC®



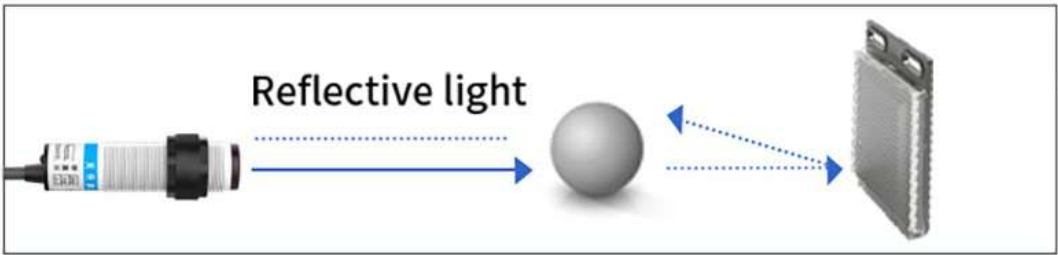
Diffuse reflection

Rated distance [Sn]:0-10CM/0-50CM/0-3M



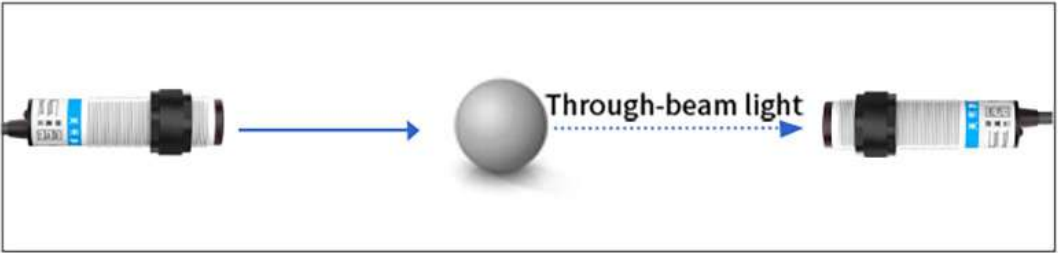
Retro-reflective

Rated distance [Sn]:0-2M



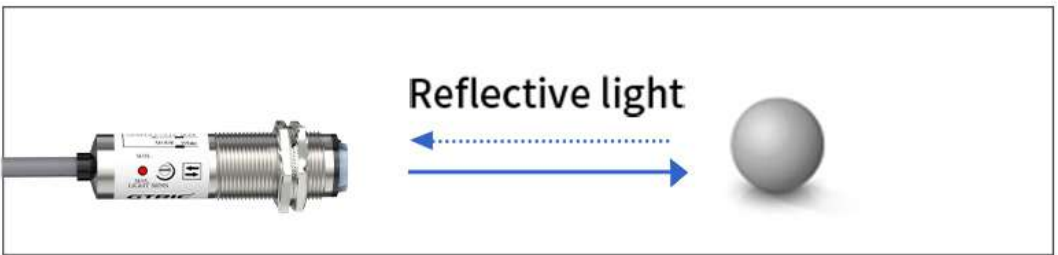
Through-beam

Rated distance [Sn]:0-5M



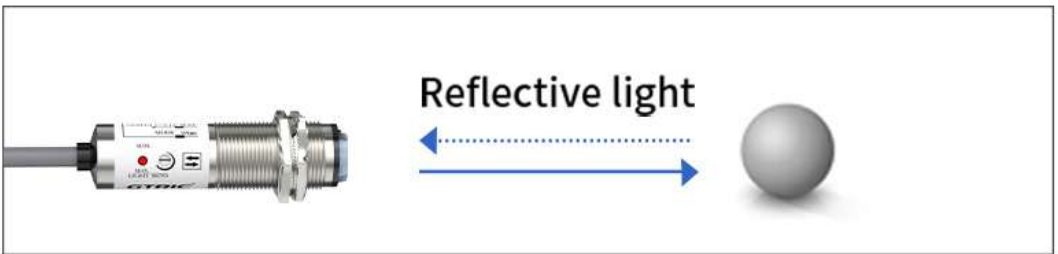
Diffuse reflection

Rated distance [Sn]:0-10CM



Diffuse reflection

Rated distance [Sn]:0-40CM



- ※ Surge absorption,reverse connection protection
- ※ Adjustable sensing distance, can sense transparent objects
- ※ Light ON/Dark ON adjustable



Selection Guide

GTRIC®

CDD	—	11	N
①		②	③
① Model: CDD: 4-Wire Photoelectric Sensor			
② Sensing distance: Number:11:0-10 40:0-40(unit:cm)			
③ Control output: N: NPN、P: PNP			

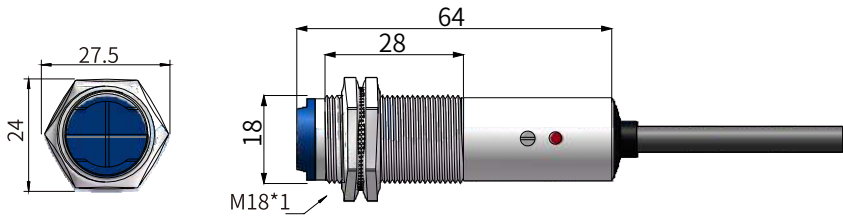
Specifications

GTRIC®

Specifications			
Model	NPN NO/NC	CDD-11N	CDD-40N
	PNP NO/NC	CDD-11P	CDD-40P
Detection type	Diffuse reflection		
Sensing distance	0-10CM		0-40CM
Output mode	Light on / Dark on		
Hysteresis distance	≤ detection distance 80%		
Supply voltage	DC:10-30VDC		
Response frequency(F)	600Hz		
Consumption current	30MA		
load current	200MA		
Residual voltage	<1V		
Circuit protection	Short-circuit , EMI protection rever , sepolarity protection		
Shock	500m/s(50G)ineach X.Y.Z direction for 3times		
Vibration	1mm amplitude at frequency 10-55Hz(for 1min) ineach X.Y.Z direction for 2hours		
Protection degree	IP66		
Ambient operating Illumination	incandescent light: <3000lux; sun light: <10000lux		
Connection	2mPVC cable or M12 connector or M12 connector 15cm wire type		
Material	Copper		

Dimension

GTRIC®



※ Adjustable sensing distance, dual indicator work lights



Selection Guide

GTRIC®

E3JK	—	S	30	M1	D
①		②	③	④	⑤

- ①**Model:**E3JK:Square photoelectric sensor
- ②**DIA. of sensing side:**Number: DIA. of sensing side (unit:mm)
- ③**Sensing type:**S:Diffuse reflective type、R: Retroreflective type、D: Through-beam type
- ④**Sensing distance:**M1:Light ON、 M2:Dark ON
- ⑤**Voltage:**D: DC 10-30V、 A: AC90-240V、 C:DC/AC Universal

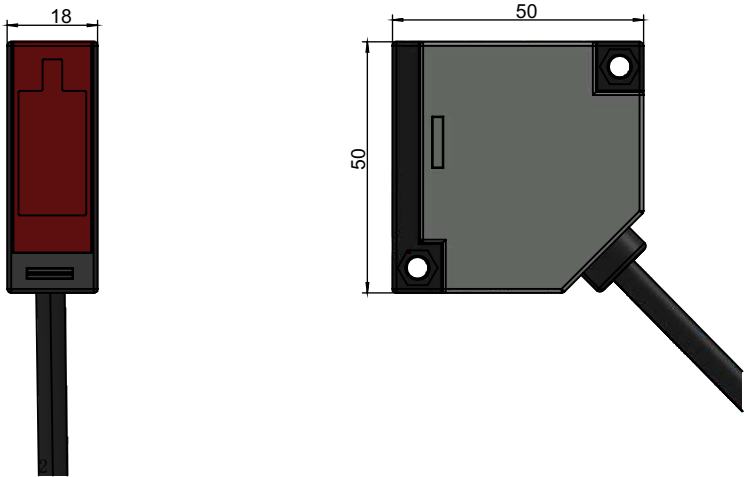
Specifications

GTRIC®

Specifications				
Model	DC10-30VNO+NC	E3JK-S30M1-D	E3JK-R4M1-D	E3JK-D5M1/5L-D
	AC90-240VNO+NC	E3JK-S30M1-A	E3JK-R4M1-A	E3JK-D5M1/5L-A
	DC/AC Universal	E3JK-S30M1-C	E3JK-R4M1-C	E3JK-D5M1/5L-C
Detection type	Diffuse reflection		Retro-reflective	Through-beam
Sensingdistance	0-30CM		0-4M	0-5M
output mode	Relay Contact Output 1A1B			
Responsefrequency(F)	600Hz			
pointing angle	3°-20°			
Ambientilluminance incandescent	incandescentlights3000Luxsunshine≤1000Lu			
Supply voltage	DC:10-30VDCAC:90-250VACDC/AC:24-240V			
Consumption current	<30MA			
output contact capacity	1A			
Shock	500m/s(50G)ineachX,Y,Zdirectionfor3times			
Vibration	1mm amplitudeatfre quency10~55Hz(for1min) ineachX.Y Zdirection for 2hours			
Residue voltage	≤1V			
Working Humidity Range	35%-85%RH			
Ambienttemperature	-20~+55℃			
Appearance Materials	ABS			
Protectiondegree	IP65			
Connection	Pre-wire ϕ 6x2M/50			

Dimension

GTRIC®



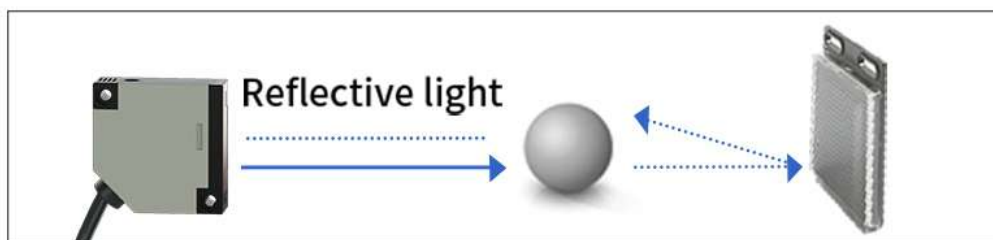
Diffuse reflection

Rated distance [Sn]: **0-30CM**



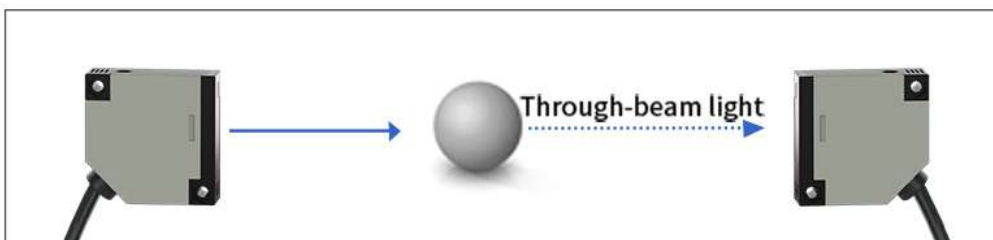
Retro-reflective

Rated distance [Sn]: **0-4M**



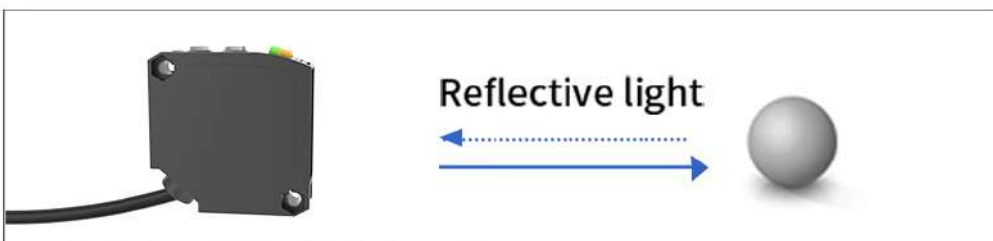
Through-beam

Rated distance [Sn]: **0-5M**



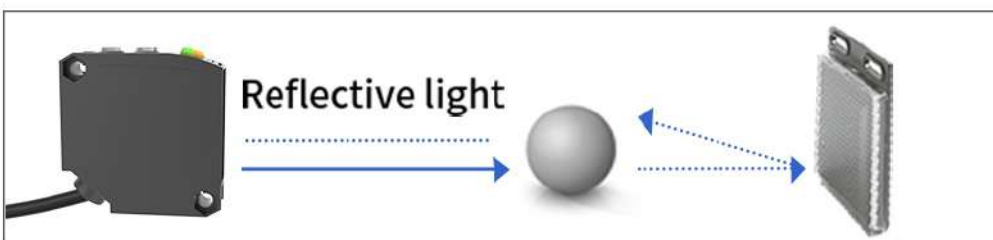
Diffuse reflection

Rated distance [Sn]: **30CM-2M/15CM-50CM**



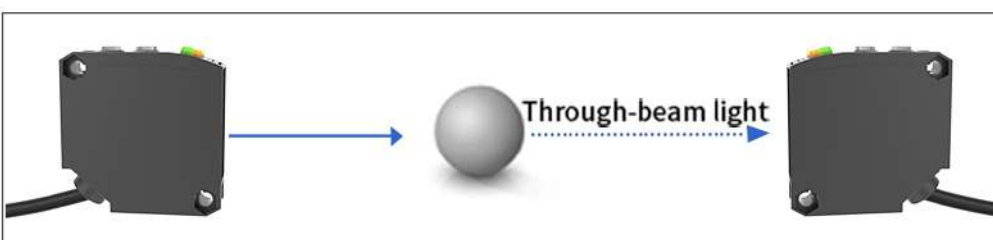
Retro-reflective

Rated distance [Sn]: **0-4M/0-7M**



Through-beam

Rated distance [Sn]: **0-15M/0-40M**



- ※ Intermediate relay output extends sensor service life
- ※ Dual potentiometers can adjust the sensing distance and NO or NC
- ※ Multiple specifications of sensing distance are available

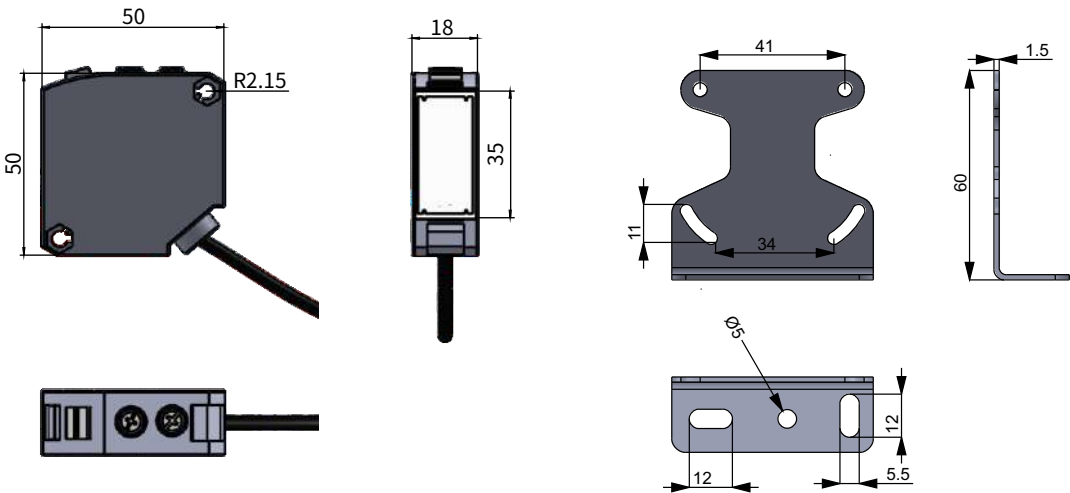


Specifications



Specifications			
Model	E3JK-DR11	E3JK-RR11	E3JK-TR11
	E3JK-DR12	E3JK-RR12	E3JK-TR12
Detection type	Diffuse reflection	Retro-refective	Through-beam
Sensing distance	E3JK-DR11:30CM-2M	E3JK-RR11:0-7M	E3JK-TR11:40M
Sensing distance	E3JK-DR12:15-50CM	E3JK-RR12:0-4M	E3JK-TR12:15M
Supply voltage	24-230V AC/DC universal		
Operation mode	Light-ON/Dark-ON selectable		
Light source	Red LED (624 nm)		
Directional angle	1.5°min		
Ccontrol output	5-wire Relay output		
Power consumption	2 W max.		
Life expectancy (relay output)	Electrical: 100 thousand times or more (switching frequency 1800 times/hour) Mechanical: 50 million times or more (switching frequency 18000 times/hour)		
Response time	20 ms max		
Sensitivity setting	Single-turn adjustment		
Ambient illuminance	Incandescent lamp: 3.000 x ;Sunlight: 11.000 1x		
Degree of protection	IP64		
Indicator	Operation indicator (orange), Stability indicator (green)		
Connection method	Pre-wired models (Cable length 2 m)		

Dimension



- ※ Background suppression function, the detection is not interfered by the target color and background color
- ※ Small light spots or large light spots can be selected according to application requirements to achieve accurate detection of small objects
- ※ Strong anti-interference and high stability



Specifications

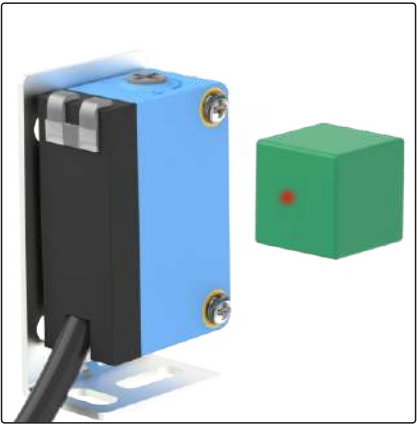
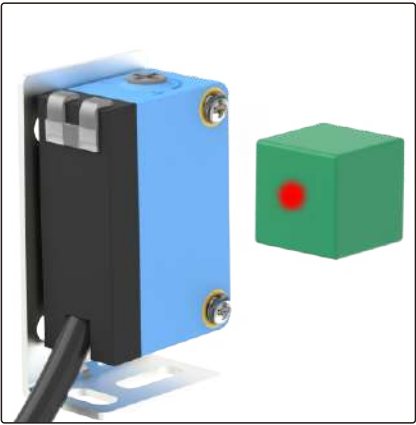
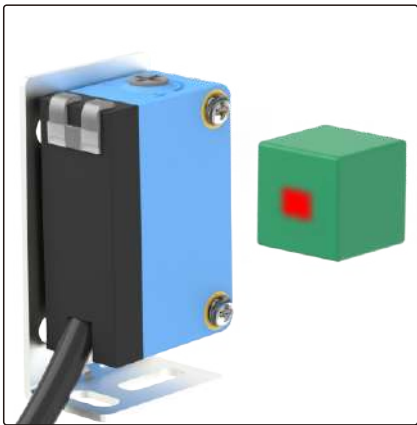
GTRIC®

Specifications				
Model	NPN NO/NC	GT-442N3	GT-442N3-XGD	GT-442N3-JG
	PNP NO/NC	GT-442P3	GT-442P3-XGD	GT-442P3-JG
Detection type	Diffuse reflection		Diffuse reflection	
Spot size	≈10mm		≈6mm	≈2mm
Supply voltage	12 to 24 VDC			
Sensing Range	30-300mm (Sensing distance can be adjusted)			
light source	Beam invisible Spot visible			
Hysteresis distance	5% or less of operation distance			
Current Rating	20 mA			
Response Time	1.5ms			
Indicator Type	LED			
Response frequency(F)	500Hz			
load current	100MA			
Residual voltage	<1V			
Circuit protection	Short-circuit , EMI protection rever , sepolarity protection			
Ambient temperature	-25°C~+70°C			
Shock	500m/s(50G) in each XYZ direction for 3 times			
Vibration	1mm amplitude at frequency 10-55Hz (for 1min) in each X.Y.Z direction for 2 hours			
Protection degree	IP65			
Connection	2m PVC cable			
Mounting Style	Mounting Style			
Material	PBT (Enclosure) Polycarbonate (Lens Cover, Indicator Cover)			

Rated distance [Sn]:5-30CM
Spot size:≈10mm

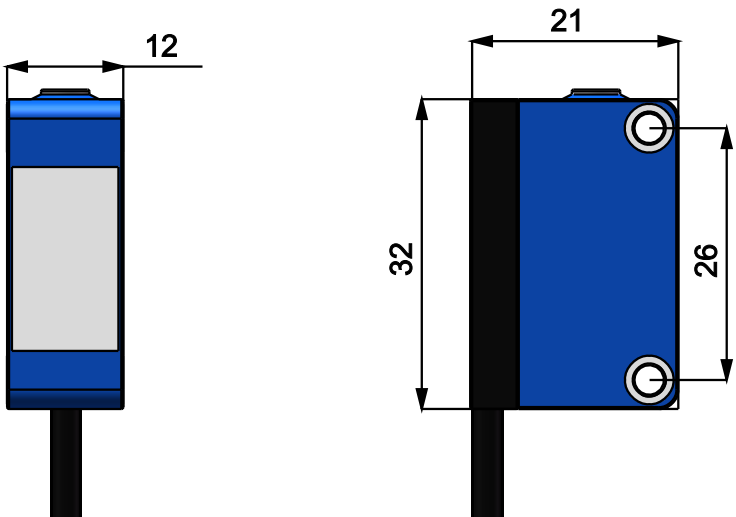
Rated distance [Sn]:5-30CM
Spot size:≈6mm

Rated distance [Sn]:5-30CM
Spot size:2mm



Dimension

GTRIC®



- ✧ Can Output Oossible
- ✧ 1000mm Long Detection Sensing
- ✧ Built-in Amplifier NO/Nc switchable



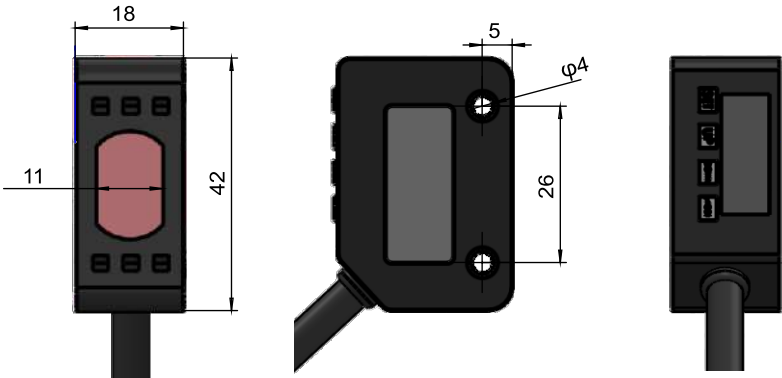
Specifications

GTRIC®

Specifications		
Model	LR-1000N	LR-1000P
Output Type	NPN NO/NC	PNP NO/NC
Detection type	Diffuse reflection	
Spot size	According to the distance change 6 - 30MM	
Supply voltage	12-24 V DC	
Sensing Range	Detect white objects 0-1000MM, detect black objects 0-300MM(Sensing distance can be adjusted)	
light source	Beam invisible Spot visible	
Display indicator	Operation indicator red LED ,Single-digit monitor, single-digit display 4-digit display	
Current Rating	20 mA	
Response Time	50us	
Responsefrequency(F)	500Hz	
load current	100MA	
Residual voltage	<1V	
Circuitprotection	Short-circuit , EMI protectionrever sepolarityprotection	
Ambienttemperature	-25°C~+70°C	
Shock	500m/s(50G)ineachXYZdirectionfor3times	
Vibration	1mm amplitudeatfrequency10-55Hz(for1min) ineachx.Y.Z directionfor 2hours	
Protectiondegree	IP65	
Connection	2m PVC cable	
Material	PBT(Enclosure) Polycarbonate (Lens Cover, Indicator Cover)	

Dimension

GTRIC®



For more detailed product descriptions, please contact our company

- ✧ Built-in Amplifier is easy to operate
- ✧ RGB integrated light-emitting original element to meet various color mark detection requirements
- ✧ High-resolution, high-precision color mark detection



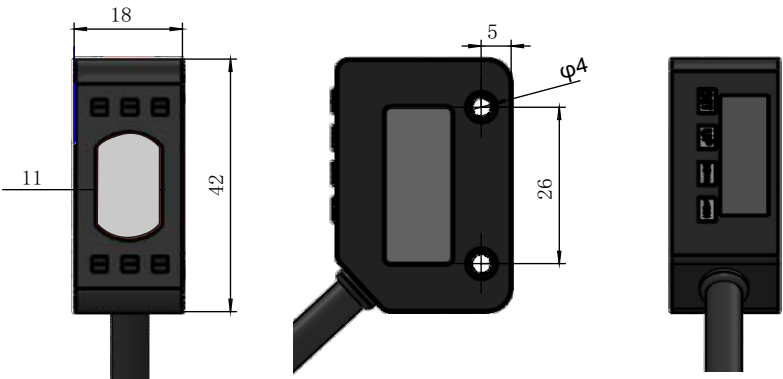
Specifications

GTRIC®

Specifications		
Model	LX-101-N	LX-101-P
Output Type	NPN	PNP
Output selection	Light-ON/Dral-ON	
Control output	Single output port	
Detection distance	8~25MM	
Supply voltage	12-24V DC	
light source	4 element light emitting diode	
Display indicator	Operation indicator red LED, dual digital monitor: dual 7-digit display threshold (4-digit green LED body indicator) and current value (4-digit red LED body indicator) light up together Current value range: 0-9999	
Detection mode	Light intensity detection (can perform area detection and provide automatic motion sensitive tracking function)	
Delay function	Can choose to disconnect the delay timer/open the delay timer/ single timer/open the delay single timer. Meter display in duration selectable: 1ms to 9999ms	
Response Time	50us	
Response frequency(F)	500HZ	
load current	100MA	
Residual voltage	< 1V	
Circuit protection	Short-circuit ,EMI protection rever ,sepolarity protection	
Ambient temperature	-25°C~+70°C	
Shock	500m/s(50G)ineachXYZ direction for 3 times	
Vibration	1mm amplitude at frequency 10-55Hz (for 1 min)ineach X.Y.Z direction for 2 hours	
Connection	2m PVC cable	
Material	PBT (Enclosure) Polycarbonate (Lens Cover, Indicator Cover)	

Dimension

GTRIC®



For more detailed product descriptions, please contact our company

- ※ IP67 protection levelcan be used in various wet or watersplashingenvironments
- ※ ABS plastic shelinsulation,flame retardant,anti-corrosionand moisture-proof
- ※ Multiple specifications to choose from



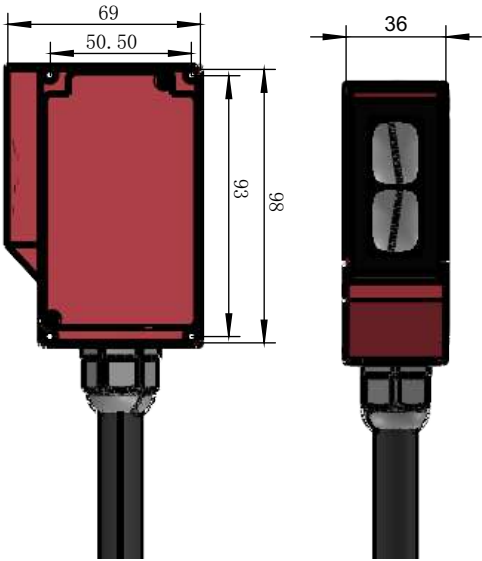
Specifications

GTRIC®

Specifications				
Model	DC 5-wire Relay	E3K-K100-7MDJ	E3K-K100-R10MDJ	E3K-K100-D10MDJ
	AC 5-wire Relay	E3K-K100-7MAJ	E3K-K100-R10MAJ	E3K-K100-D10MAJ
	DC/AC 5-wire Relay	E3K-K100-7MGJ	E3K-K100-R10MGJ	E3K-K100-D10MGJ
	DC 3-wire NPN NC	E3K-K100-7MN1	/	/
	DC 3-wire NPN NC	E3K-K100-7MN2	/	/
	DC 3-wire PNP NO	E3K-K100-7MP1	/	/
	DC 3-wire PNP NC	E3K-K100-7MP2	/	/
	AC 2-wire NO	E3K-K100-7MA1	/	/
	AC 2-wire NC	E3K-K100-7MA2	/	/
Detection type		Diffuse reflection	Retro-refective	Through-beam
Sensing distance		0-7M	0-10M	0-10M
Distance Adjustment method		Head potentiomete		
Directional Angle		3°-10°		
Standard Sensing Object		Opaque/Translucent		
Light Source		Red light-emitting diode (624 nm)		
Ambient illuminance		incandescent lights3000Lux sunshines10000Lu		
Operating Voltage		DC 5-wire Relay:12-24V;DC-AC 5-wire Relay:90-250VAC DC/AC 5-wire Relay:24-240V DC/AC DC 3-wire:12-24v DC		
Consumption current		30mA Max		
Response time		<20ms		
Load current		200mA Max		
Leakage current		≤1.1mAno-load		
Residual Voltage		DC:≤0.7V AC:≤10V		
Shock		500m/s(50G) ineach X,YZ direction for 3times		
Vibration		1.5mm amplitude atfre quency 10~55Hz (forlmin) ineach X,Z,direction for 2hours		
Ambienttem perature		-20~+55℃		
Working Humidity		35- 85%		
Protection degree		IP67		
Connection		2m PVC cable		
Sensingside		ABS		

Dimension

GTRIC®



- ※ 10K Hz Detection Frequency
- ※ One-click Automatic Learning



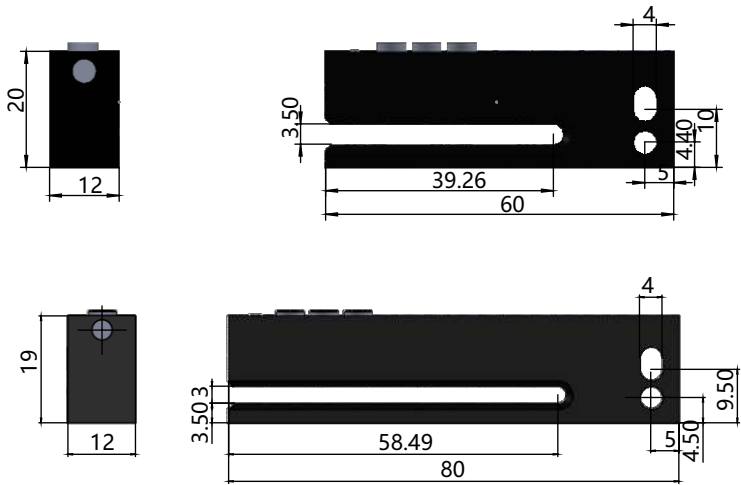
Specifications

GTRIC®

Specifications			
Model	NPN NO/NC	GT-BQ40	GT-BQ60
	PNP NO/NC	GT-BQ40P	GT-BQ60P
Groove depth		40MM	60MM
light source		Infrared 940nm	
Response frequency		10K Hz	
Operating Voltage		12-24V DC	
Working current		<30 mA	
Operating temperature		-20-50°C	
Protection level		IP50	
Tail		2M PVC Cable	
Material		Aluminum alloy	

Dimension

GTRIC®



Instructions for use

GTRIC®

Functional application(when powered on the green light is on and there is output)

- 1: Press the M key once, the red light will flash, enter the automatic learning mode, drag the label for 5 s. The green light of the automatic recognition will flash, and the Zhengming adjustment is normal.
- 2: Manual mode, press + or - to automatically adjust the size of the displayed value, and then compensate for the subtle value size.
- 3: The product can be identified as translucent or non-transparent, but cannot be identified with two transparent plastic labels.
- 4: Long press + and - 3S to switch normally open and normally closed, long press M and - 6S to lock and unlock.

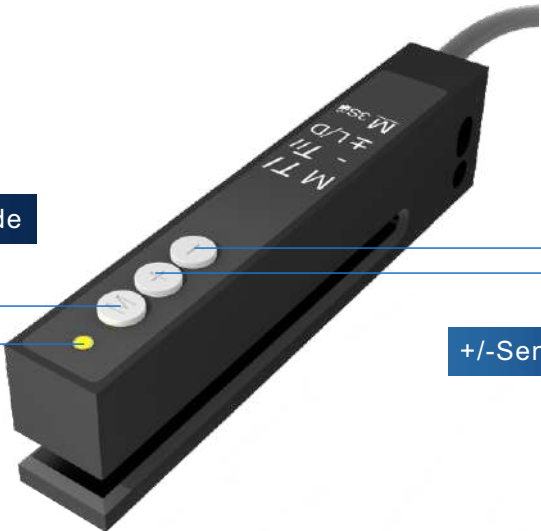
Press and hold and for 6 seconds NO NC switch
Press and hold and for 3 seconds lock or unlock

M key automatic learning mode

Function indicator light

+/-Sensitivity fine-tuning

Green light when product is detected
Red light when adjusting function



※ Adjustable spot size and sensing distanceIP67 protection class



Selection Guide

GTRIC®

KS-C	—	2	W
①		②	③
① Model: KS-C: Coaxial reflex color sensor			
② Control output: 2: NO + NC			
③ Light source chromatogram: W:White light、 G:Green light、 R:Red light、 B:Blue light			

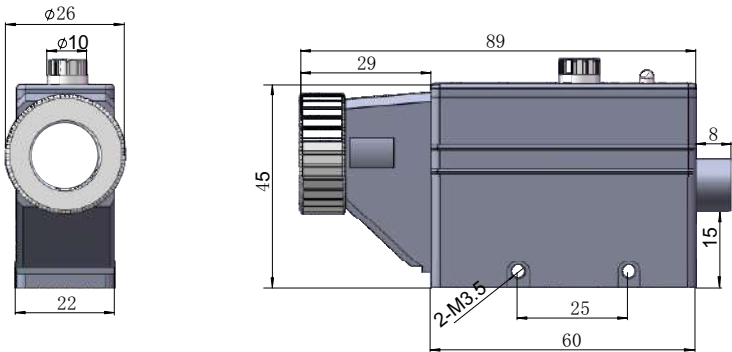
Specifications

GTRIC®

Specifications								
Model	KS-C2W	KS-C2G	KS-C2R	KS-C2B	KS-C2RG	KS-C2WG	KS-C2WB	KS-C2GB
Lamp color	White	Green	Red	Blue	Red Green	White Green	White Blue	Green Blue
Output type	NPN							
Conrol Output	Light on + Dark on							
Sensing method	Coaxial reflex							
Light source chromatogram	Red,green,blue,white							
Light spot(color)	Φ1-Φ1.5							
Detection distance	12mm±2mm							
Sensitivity adjustment	Adjustable							
Action indicator	Red LED							
Supply voltage	10-30Vdc±10%							
Sensing object	Opaque object							
Response frequency	2KHz							
Consumption current	< 30mA							
Output current	≤200mA							
Protection circuit	Reverse polarity protection,Surge suppressor,Short-circuit protection							
Dielectric strength	1000 VAC max.,50/60 Hz for 1 min between energized parts and case							
Temperature influence	±10% max.of sensing distance at 23C within temperature range of -25°C to 60°C ±15% max.of sensing distance at 23°C within temperature range of -30°C to 65°C							
Voltage influence	±10% max.of sensing distance in rated voltage range ±15%							
IP Rating Material	IP67							
Material	Case:Aluminum die-cast (ABS); Sensing surface (lens):PMMA							
Operating temperature	-30 to 65°C (with no icing or condensation)							
Operating humidity	Storage:35% to 95% (without condensation)							
Connection	2m PVC cable							
Sensing side	PBT							

Dimension

GTRIC®



Green LED(O: Easy to be detected X:Hard tobe detected)

Mark \ Background	Black	Silver	Red	Orange	Yellow	Green	Blue	Indigo	Purple	White
Black	—	○	○	○	○	×	×	×	○	○
Silver	○	—	○	×	×	○	○	○	○	×
Red	○	○	—	×	×	×	×	×	×	○
Orange	○	×	×	—	○	○	○	○	×	○
Yellow	○	×	×	×	—	○	○	○	×	×
Green	×	○	×	○	○	—	×	×	×	○
Blue	×	○	×	○	○	×	—	×	×	○
Indigo	×	○	×	○	○	×	×	—	×	○
Purple	○	○	×	×	×	×	×	×	—	○
White	○	×	○	○	×	○	○	○	○	—

Red LED(O: Easy to be detected X:Hard tobe detected)

Mark \ Background	Black	Silver	Red	Orange	Yellow	Green	Blue	Indigo	Purple	White
Black	—	○	○	○	○	×	×	×	○	○
Silver	○	—	×	×	×	○	○	○	×	×
Red	○	×	—	×	×	○	○	○	×	×
Orange	○	×	×	—	×	○	○	○	×	×
Yellow	○	×	×	×	—	○	○	○	×	×
Green	×	○	○	○	○	—	○	○	○	○
Blue	×	○	○	○	○	×	—	×	○	○
Indigo	×	○	○	○	○	×	×	—	○	○
Purple	○	×	×	×	×	○	○	○	—	
White	○	×	×	×	×	○	○	○	○	—

※ Small size, suitable for all kinds of small space occasions
Requires use with amplifier



Selection Guide



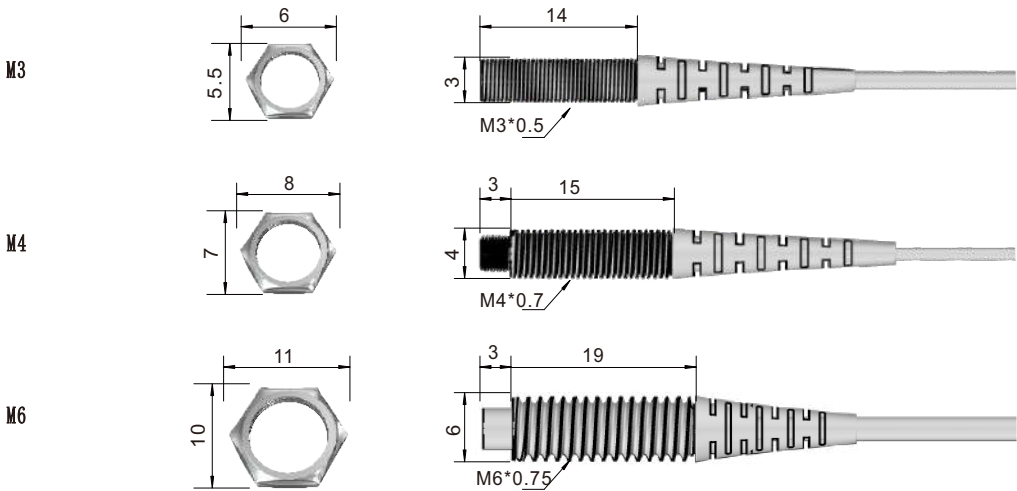
FRS	3	10	TZ	M
①	③	④	⑤	⑥
① Model Description: 1.FRS:Diffuse Reflection Non-Coaxial Fiber Optic Cable PRC:Diffuse Reflection Coaxial Fiber Optic Cable				
③ Fiber Head Diameter: M3:M3*0.5mm、M4： M4*0.7mm、M6： M6*0.75mm				
④ Fiber optic cable length: 10:1MFiber Optic Cable、20:2MFiber Optic Cable				
⑤ Induction direction: □: Regular Straight Head、TZ: Elbow Head				
⑥ With needle length: Standard Type、I:With needle 10mm 、 Custom Length				

Specifications



Specifications							
Model	Standard series	FRS-310	PRC-310	FRS-410	PRC-410	FRS-610	PRC-610
	Needle length 5mm	FRS-310-S05	PRC-310-S05	FRS-410-S05	PRC-410-S05	FRS-610-S05	PRC-610-S05
	Needle length 10mm	FRS-310-I	PRC-310-I	FRS-410-I	PRC-410-I	FRS-610-I	PRC-610-I
	Needle length 15mm	FRS-310-S15	PRC-310-S15	FRS-410-S15	PRC-410-S15	FRS-610-S15	PRC-610-S15
	Needle length 20mm	FRS-310-S	PRC-310-S	FRS-410-S	PRC-410-S	FRS-610-S	PRC-610-S
	Thread pitch	M4*0.7MM		M4*0.7MM		M6*0.75MM	
Fiber optical core		Non-coaxial	Coaxial	Non-coaxial	Coaxial	Non-coaxial	Coaxial
Fiber size		Fiber core 0.5mm Outer diameter1.0mm				Fiber core 1mm Outer diameter 2 mm	
Minimum detection object		0.1MM					
Detection distance		0-120MM		0-400MM		0-600MM	
Fiber Head Material		Stainless steel					
Needle diameter		Standard 1.5mm(can be customized0.5mm/0.8mm/1mm)					
Needle length		customizable					
Fiber line length		Standard 1M(can be customized2M/3M)					

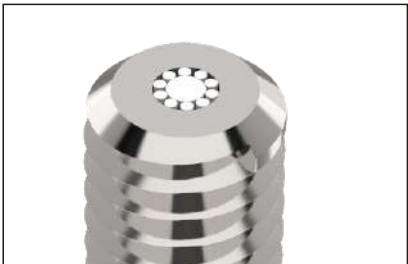
Dimension



non-coaxial fiber



coaxial fiber



※ Small size, suitable for all kinds of small space occasions
Requires use with amplifier



Selection Guide GTRIC®

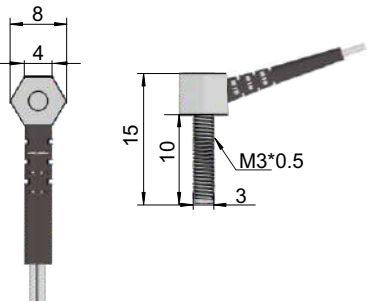
FRS	3	10	TZ	M
①	③	④	⑤	⑥
① Model Description: 1.FRS:Diffuse Reflection Non-Coaxial Fiber Optic Cable PRC:Diffuse Reflection Coaxial Fiber Optic Cable				
③ Fiber Head Diameter: M3:M3*0.5mm、M4： M4*0.7mm、M6： M6*0.75mm				
④ Fiber optic cable length: 10:1MFiber Optic Cable、20:2MFiber Optic Cable				
⑤ Induction direction: □: Regular Straight Head、TZ: Elbow Head				
⑥ With needle length: Standard Type、I:With needle 10mm 、Custom Length				

Specifications GTRIC®

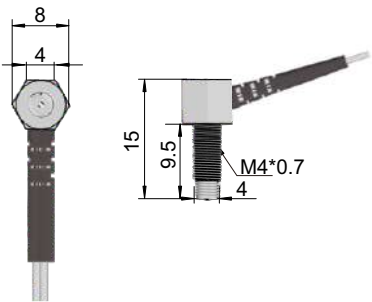
Specifications							
Model	Standard series	FRS-310-TZ	PRC-310-TZ	FRS-410-TZ	PRC-410-TZ	FRS-610-TZ	PRC-610
	Needle length 5mm	FRS-310-TZ-S05	PRC-310-TZ-S05	FRS-410-TZ-S05	PRC-410-TZ-S05	FRS-610-TZ-S05	PRC-610-TZ-S05
	Needlelength 10mm	FRS-310-TZ-I	PRC-310-TZ-I	FRS-410-TZ-I	PRC-410-TZ-I	FRS-610-TZ-I	PRC-610-TZ-I
	Needle length 15mm	FRS-310-TZ-S15	PRC-310-TZ-S15	FRS-410-TZ-S15	PRC-410-TZ-S15	FRS-610-TZ-S15	PRC-610-TZ-S15
	Needlelength20mm	FRS-310-TZ-S	PRC-310-TZ-S	FRS-410-TZ-S	PRC-410-TZ-S	FRS-610-TZ-S	PRC-610-TZ-S
Thread pitch		M4*0.7MM		M4*0.7MM		M6*0.75MM	
Fiber optical core		Non-coaxial	Coaxial	Non-coaxial	Coaxial	Non-coaxial	Coaxial
Fiber size		Fiber core 0.5mm outer diameter1.0mm				Fiber core 1mm Outer diameter 2 mm	
Minimum detection object		0.1MM					
Detection distance		0-120MM		0-120MM		0-200MM	
Fiber Head Material		Stainless steel					
Needle diameter		Standard 1.5mm(can be customized0.5mm/0.8mm/1mm)					
Needle length		customizable					
Fiber line length		Standard 1M(can be customized2M/3M)					

Dimension GTRIC®

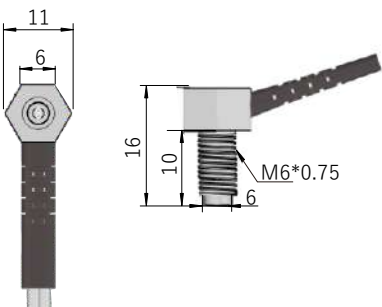
M3



M4



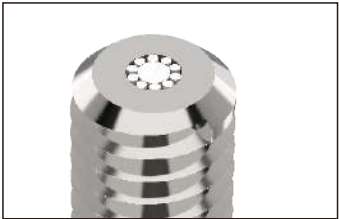
M6



non-coaxial fiber



coaxial fiber



※ Small size, suitable for all kinds of small space occasions
Requires use with amplifier



Selection Guide



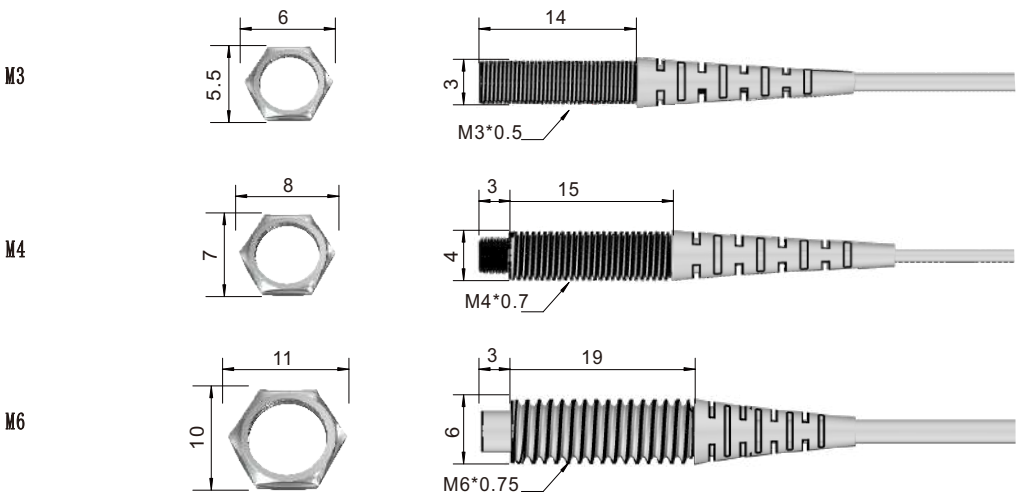
FT	3	10	TZ	M
①	③	④	⑤	⑥
① Model Description: FT: Ordinary Through-beam Fiber Optic Cable GT:High Quality Through beam Fiber Optic Cable				
② Fiber Head Diameter: M3:M3*0.5mm、M4： M4*0.7mm、M6： M6*0.75mm				
③ Fiber optic cable length: 10:1MFiber Optic Cable、20:2MFiber Optic Cable				
④ Induction direction: □: Regular Straight Head、TZ: Elbow Head				
⑤ With needle length: standard type、With needle 10mm 、custom length				

Specifications



Specifications				
Model	Standard series	FT-310	FT-410	FT-610
	High Transmittance series	GT-310	GT-410	GT-610
	Needle length 5mm	FT-310-S05	FT-410-S05	FT-610-S05
	Needle length 10mm	FT-310-I	FT-410-I	FT-610-I
	Needle length 15mm	FRS-310-S15	FRS-410-S15	FT-610-S15
Needle length 20mm		FT-310-S	FT-410-S	FT-610-S
Thread pitch		M3*0.5MM	M4*0.7MM	M6*0.75MM
Fiber size		Fiber core 0.5mm outer diameter1.0mm		Fiber core 1.0mm Outer diameter2.2mm
Minimum detection object		0.1MM		
Detection distance		0-400MM	0-400MM	0-600MM
Fiber Head Material		Stainless steel		
Needle diameter		Standard 1.5mm(can be customized0.5mm/0.8mm/1mm)		
Needle length		customizable		
Fiber line length		Standard 1M(can be customized2M/3M)		

Dimension



High quality opticalfiber cable



ordinary opticalfiber cable



※ Small size, suitable for all kinds of small space occasions
Requires use with amplifier



Selection Guide

GTRIC®

FT	3	10	TZ	M
①	②	③	④	⑤
① Model Description: FT: Ordinary Through-beam Fiber Optic Cable GT:High Quality Through beam Fiber Optic Cable				
② Fiber Head Diameter: M3:M3*0.5mm、M4:M4*0.7mm、M6:M6*0.75mm				
③ Fiber optic cable length: 10:1MFiber Optic Cable、20:2MFiber Optic Cable				
④ Induction direction: □: Regular Straight Head、TZ: Elbow Head				
⑤ With needle length: standard type、With needle 10mm 、custom length				

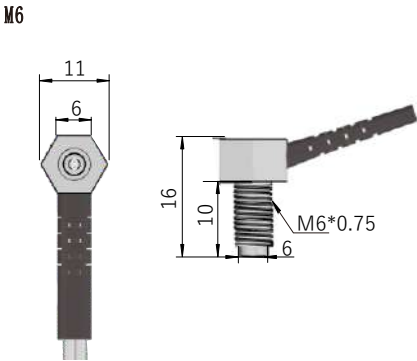
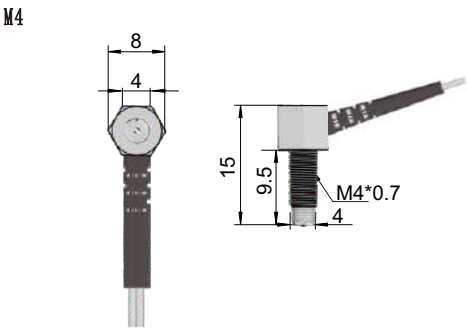
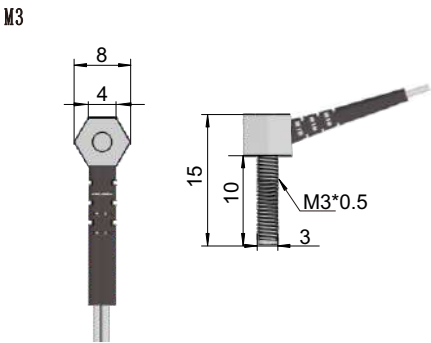
Specifications

GTRIC®

Specifications				
Model	Standard series	FT-310-TZ	FT-410-TZ	FT-610-TZ
High Transmittance series		GT-310-TZ	GT-410-TZ	GT-610-TZ
Thread pitch		M3*0.5MM	M4*0.7MM	M6*0.75MM
Fiber size		Fiber core 0.5MM outer diameter1.0MM		Fiber core 1.0MM outer diameter2.2MM
Minimum detection object		0.1MM		
Detection distance		0-400MM	0-400MM	0-600MM
Fiber Head Material		Stainless steel		
Needle length		customizable		
Fiber line length		Standard 1M(can be customized 2M/3M)		

Dimension

GTRIC®



High quality opticalfiber cable



ordinary opticalfiber cable



※ There are economical and high-precision types
For use with fiber optic sensors



Specifications



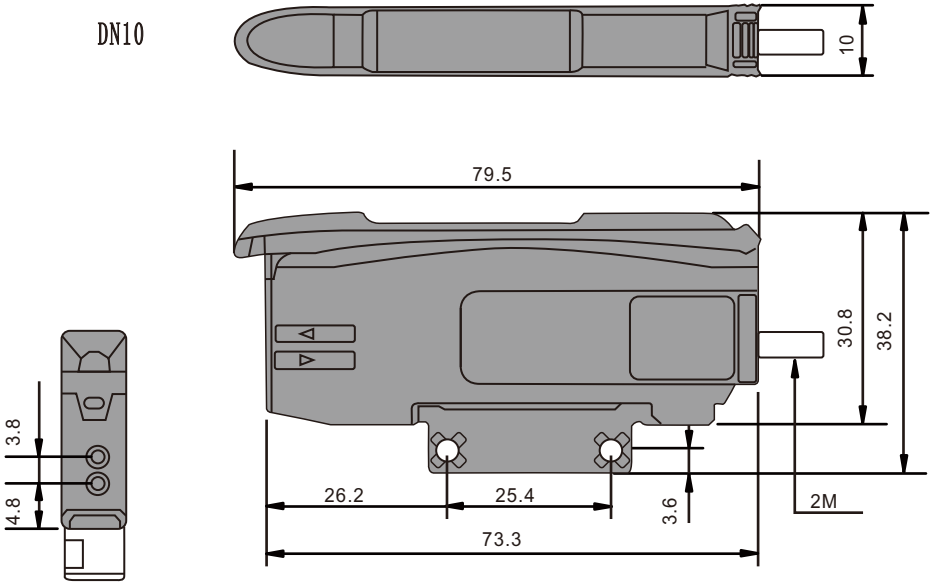
Specifications				
Model	DN10	DP10	NA11	NA41
output type	NPN	PNP	NPN	PNP
operating voltage	12~24VDC			
Light source	Red LED			
Distance regulation	Automatic adjustment		Manually adjust	
Response time	25/50/100/200us		250 us	
ON/OFF Time delay function	1MS-999MS adjustment		40MS	
Max sensing distanceDiffuse reflection	4700MM		2200MM	
Max sensing distanceThrough-beam	11000MM		6000MM	
switch type	Selectable L.on/D.on			
operating temperature	-25°C~55°C			
Operating humidity	35-85% RH			
Ambient luminance	Incandescent lamp:3000 lux, Sunlight:≤1000 lux			
Anti-vibration	10-55 Hz,double amplitude 1.5 mm,XYZ three directions,1 hours each			
Impact resistance	(50G)50cm/S x,Y,z three directions			
Connection	2m 3-Wire cable			

If you need a detailed amplifier product manual, please contact our company

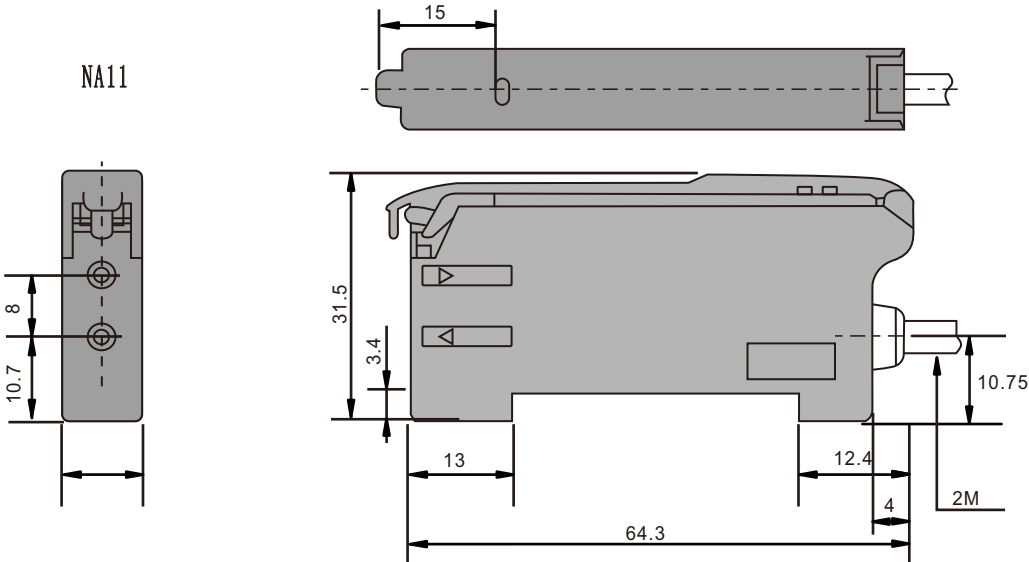
Dimension



DN10



NA11

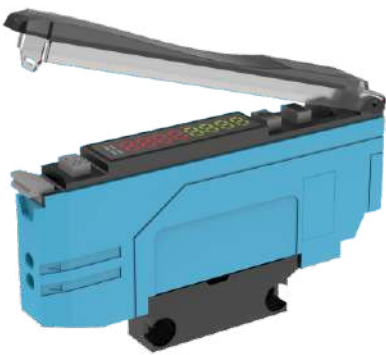


Parameter comparison

The following detection distance is obtained by detecting white A4 paper with M6 diffuse reflection optical fiber sensor, and the actual sensing distance shall be subject to debugging according to the site conditions

	DN10	NA11
		
Adjust	Automatic adjustment	Manual adjustment
Working voltage	12-24V DC	10-30V DC
Response time	25/50/100/200μs	250μs
Delay function	1MS~9999MSadjust	Fixed 40MS
Maximum detection distance of Diffuse reflection	47cm	22cm
Maximum detection distance of Diffuse reflection	110cm	60cm
NO/NC switching	✓	✓
Anti-interference	✓	✗
Regional functions	✓	✗
Prevent accidental contact	✓	✗
Luminous quantity adjustment	✓	✗
Vibration resistance	✓	✗

- ※ 0-5V voltage output
- ※ Brightness percentage can be set,three delay modes can be adjusted

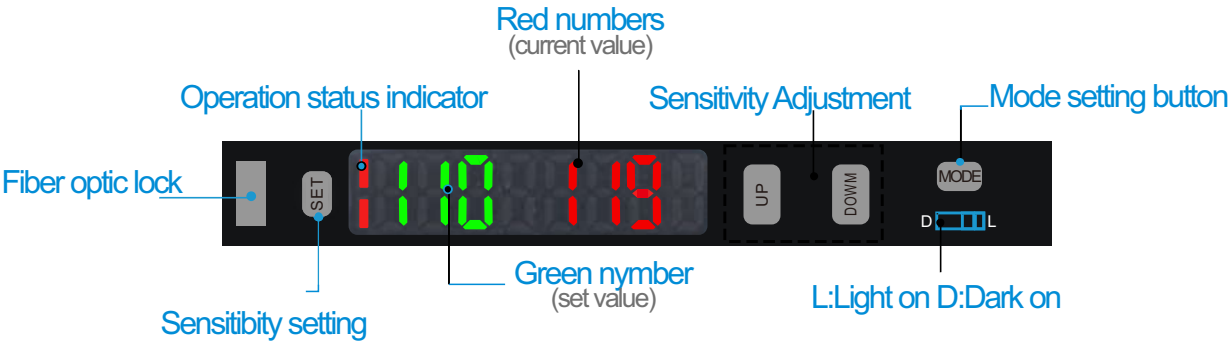


Specifications

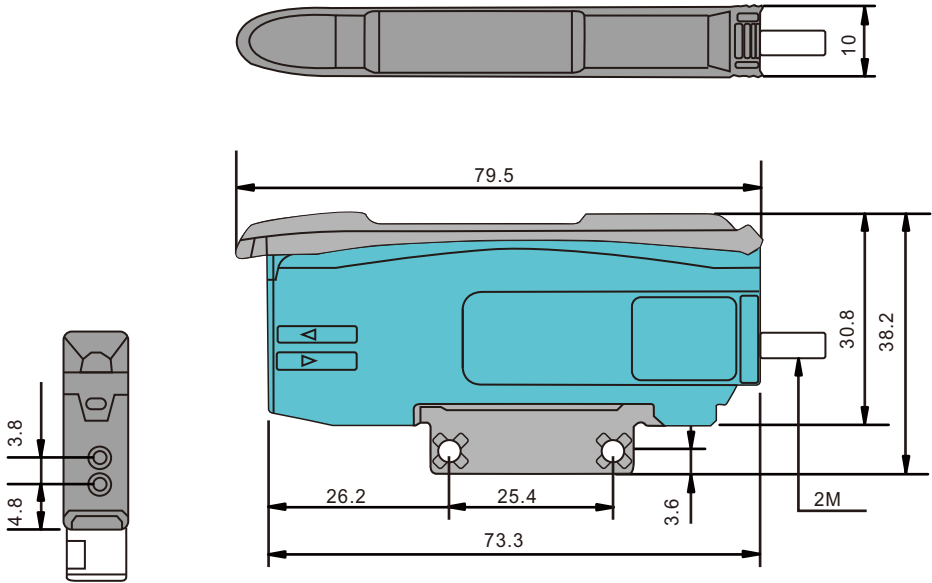


Specifications		
Model	DN10-MN	DP10-MN
Output type	NPN	PNP
Control output	Two output ports 1 output port/black wire, 1 analog voltage output/white wire, Analog voltage 0-5000MV	
Light source	Red,4-element LED body	
Corresponding time	P-0:25μs P-1:100μs P-2:400μs P-3:800μs P-4:3.2ms	
Output selection	Light on/Dark on	
Display indicator	Operation Indicator:Red LED,Dual Digital Monito Threshold value (4-digit green LED body indicator) current value (4-digit red LED body indicator) light up together.Value range:0-9999	
Detection method	Light intensity (area detection possible, automatic sensitive tracking available)	
Delay function	Four ways to choose off-delay timer/on-delay timer/one-shot timer/on-delay one-shot timer	
Delay time selection	1MS-9999MS	
Control output	NPN/PNP open collector 24V,100mAmax	
Power supply	12-24VDC±10%	
Ambient luminance	Incandescent lamp:≤3000 lux Sunlight:≤1000 lux	
Power consumption	Standard Mode:Max 300mW,Max Voltage 24V	
Anti-vibration	10-55 Hz,double amplitude 1.5 mm,XYZ three directions,1 hours each	
Impact resistance	(50G)500m/S2 X,Y,Z three directions	
Operating temperature	-25°C~55°C	
Operating humidity	35-85% RH	
Connection	2MPVC Cable	
Sensing side	PBT	

If you need a detailed amplifier product manual, please contact our company



Dimension



- ※ High precision, uniform light spot output, diverse sensing width
- ※ Requires use with amplifier



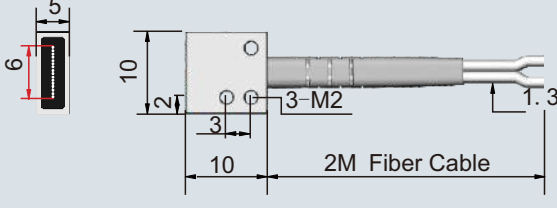
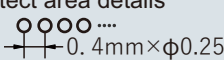
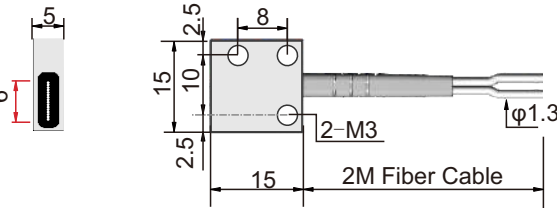
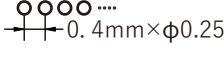
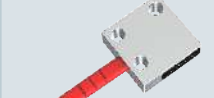
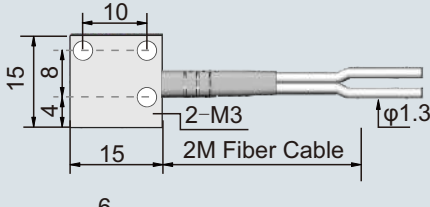
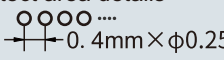
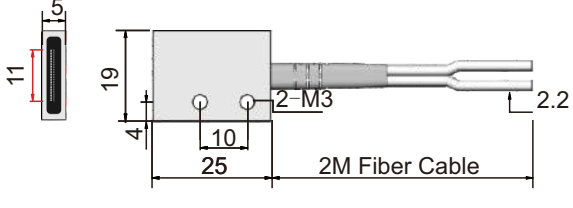
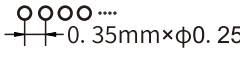
Selection Guide

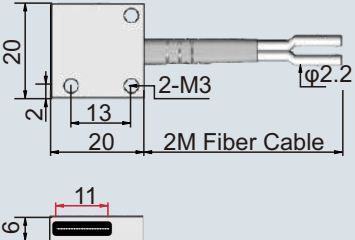
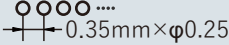
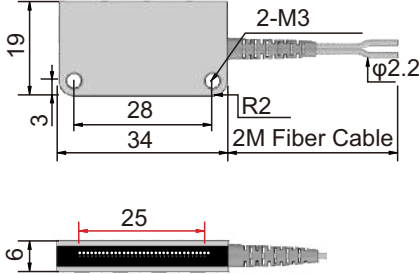
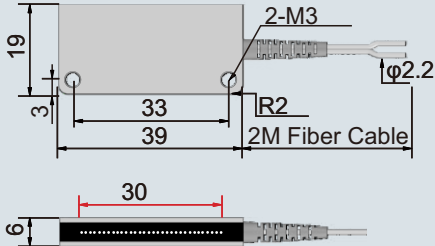
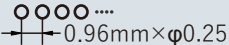
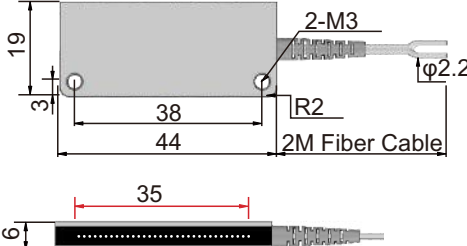
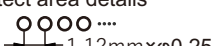
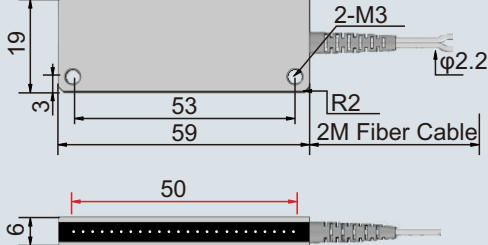
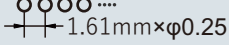
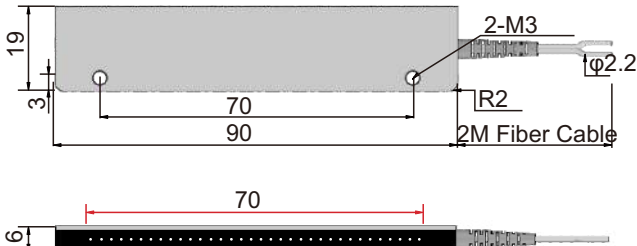
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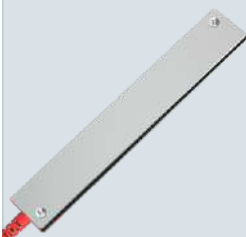
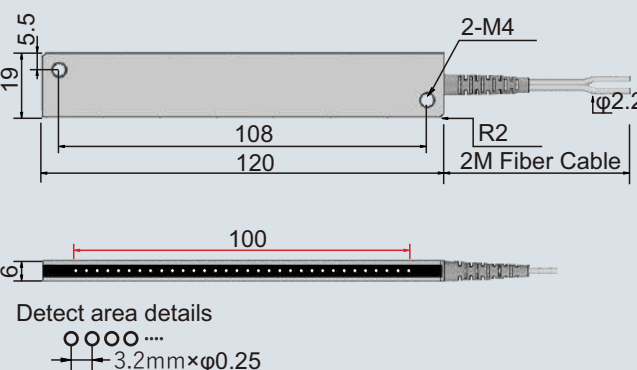
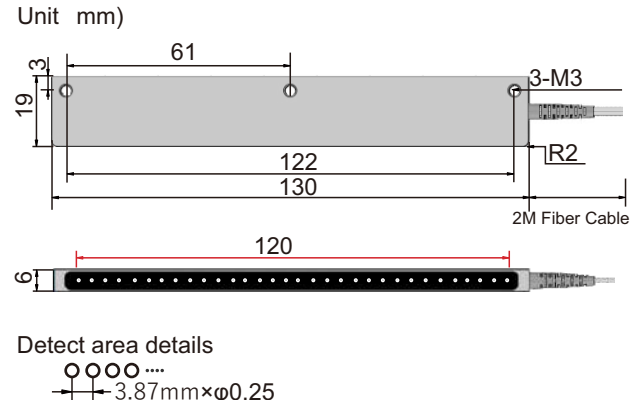
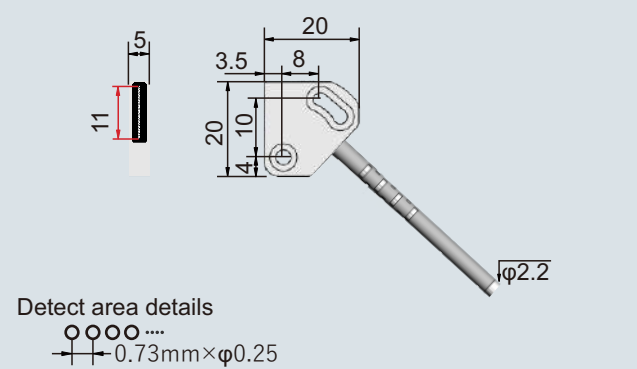
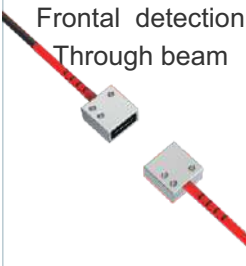
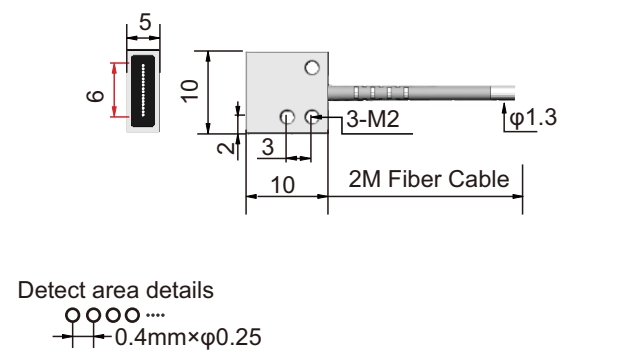
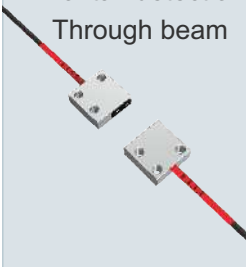
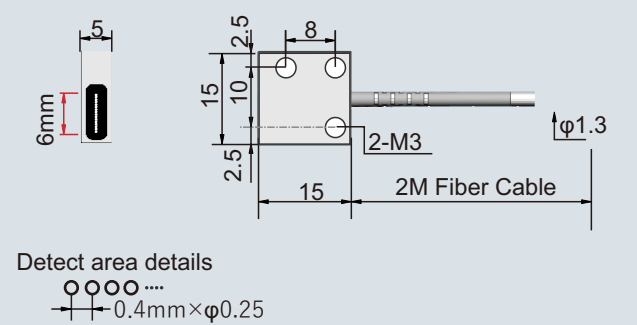
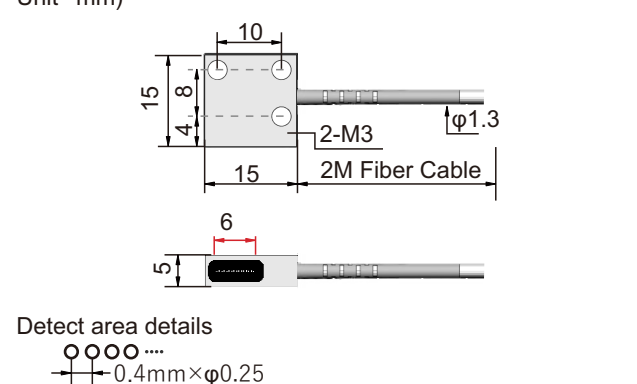
FR	—	15	F
①		②	③
① Model :FR-Diffuse reflection、FT-Through beam			
② Fiber detection range : 15MM			
③ Detection method :F-Frontal detection、S-Side detection			

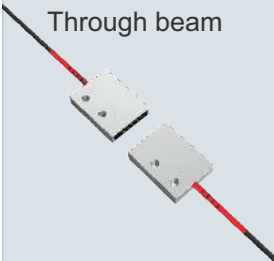
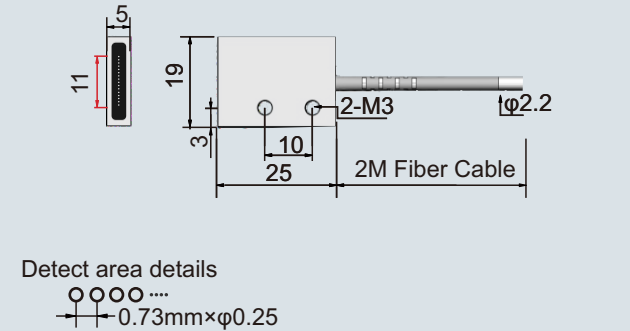
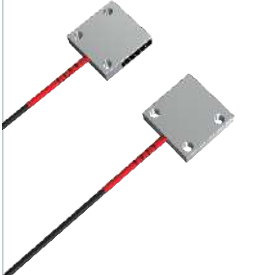
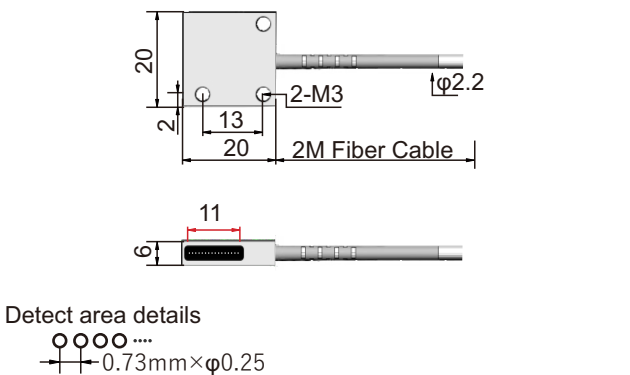
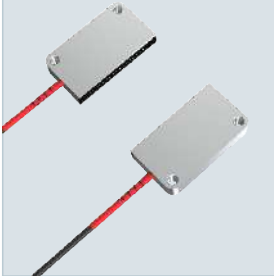
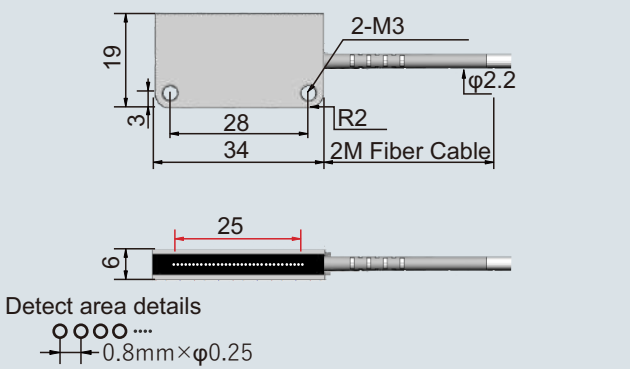
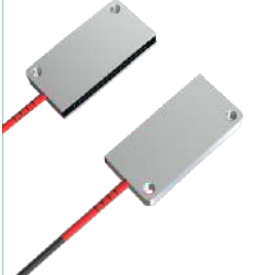
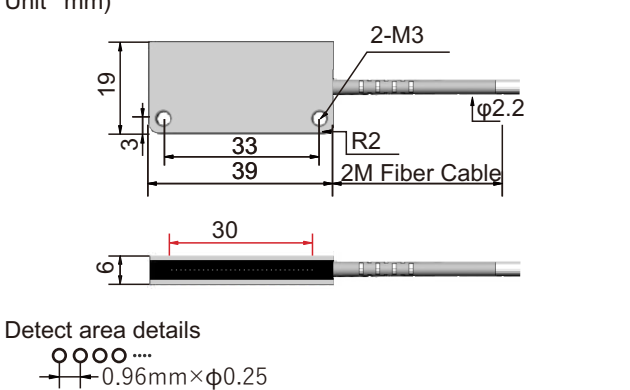
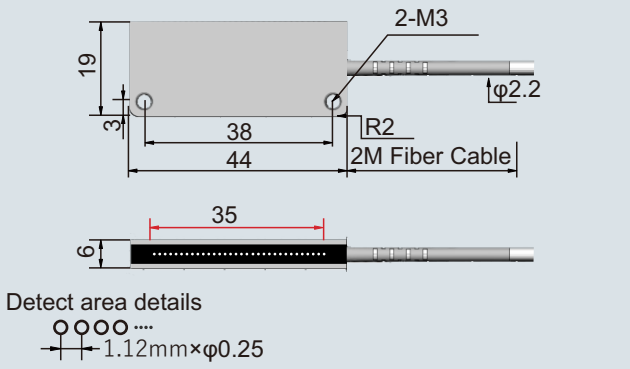
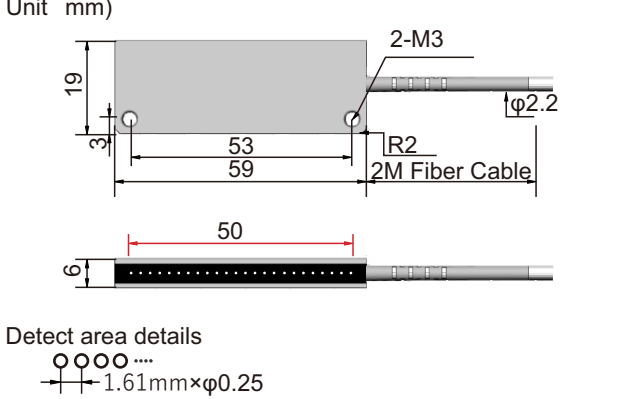
Dimension

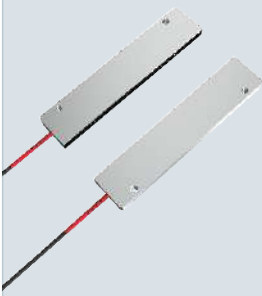
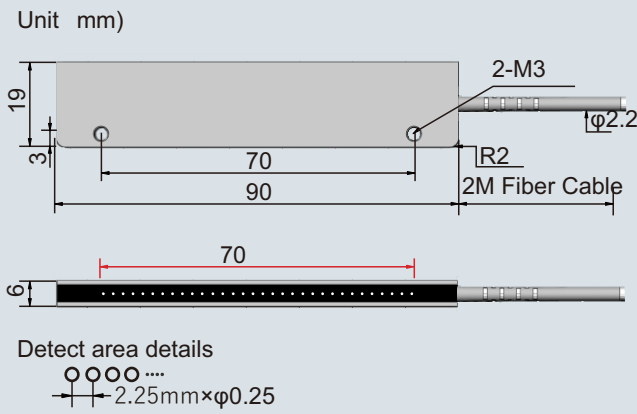
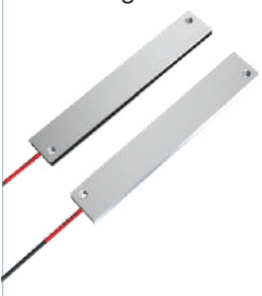
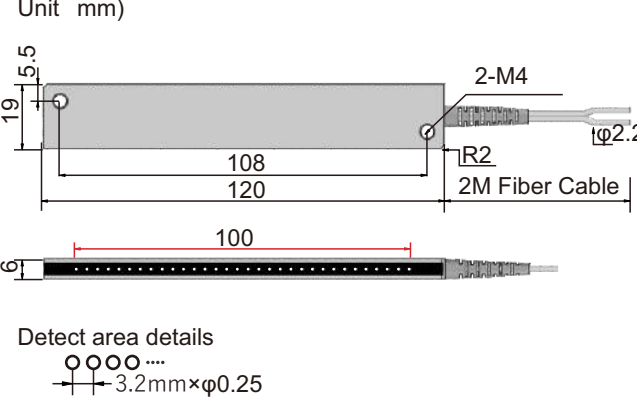
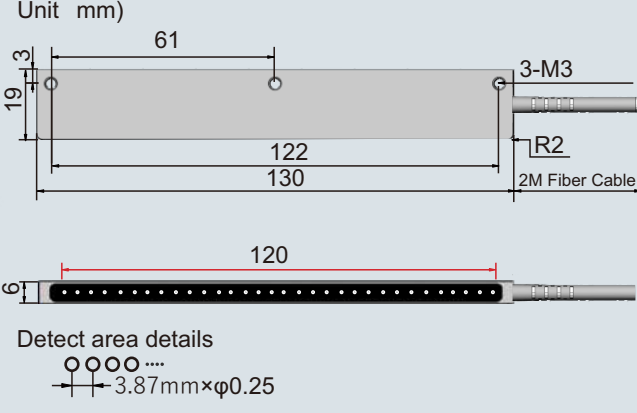
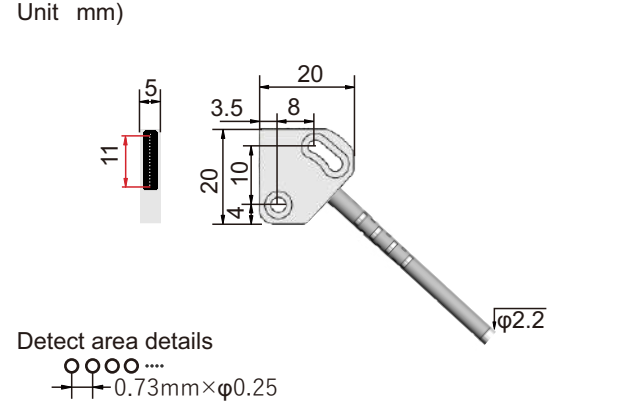
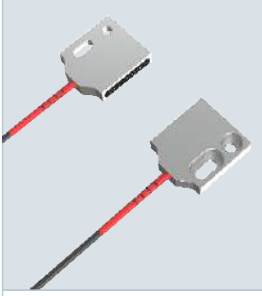
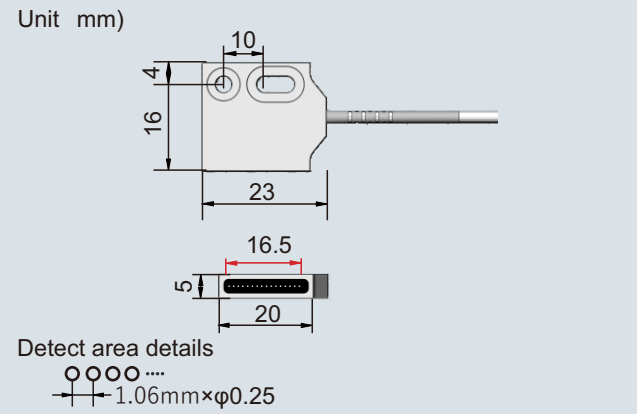
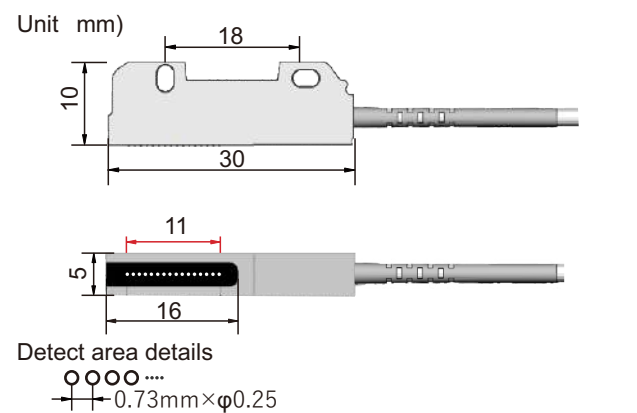
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Model	Size	Specification
 FR-10F Frontal detection Diffuse reflection	unit mm)  Detect area details 	Light-emitting surface 6mm Spot Spacing 0.4mm Fiber outer diameter φ1.3 Fiber outer diameter φ0.25×8core×2 Working temperature -55 ~+70 Minimum bending radius R15
 FR-15F Frontal detection Different reflection	Unit mm)  Detect area details 	Light-emitting surface 6mm Spor Spacing 0.4mm Fiber outer diameter φ1.3 Fiber inner diameter φ0.25×8core×2 Working temperature -55 ~+70 Minimum bending radius R15
 FR-15S Different reflection	Unit mm)  Detect area details 	Light-emitting surface 6mm Spor Spacing 0.4mm Fiber outer diameter φ1.3 Fiber inner diameter φ0.25×8core×2 Working temperature -55 ~+70 Minimum bending radius R15
 FR-20F Frontal detection Different reflection	Unit mm)  Detect area details 	Light-emitting surface 11mm Spor Spacing 0.35mm Fiber outer diameter φ2.2 Fiber inner diameter φ0.25×16core×2 Working temperature -55 ~+70 Minimum bending radius R15

FR-20S Different reflection 	Unit mm)  Detect area details 	①Light-emitting surface 11mm Spor Spacing 0.35mm Fiber outer diameter φ2.2 Fiber inner diameter φ0.25×16core×2 Working temperature -55°C~+70°C Minimum bending radius R15
FR-25S Different reflection 	Unit mm)  Detect area details 	①Light-emitting surface 25mm Spor Spacing 0.8mm Fiber outer diameter φ2.2 Fiber inner diameter φ0.25×16core×2 Working temperature -55°C~+70°C Minimum bending radius R15
FR-30S Different reflection 	Unit mm)  Detect area details 	①Light-emitting surface 30mm Spor Spacing 0.96mm Fiber outer diameter φ2.2 Fiber inner diameter φ0.25×16core×2 Working temperature -55°C~+70°C Minimum bending radius R15
FR-35S Different reflection 	Unit mm)  Detect area details 	①Light-emitting surface 35mm Spor Spacing 1.12mm Fiber outer diameter φ2.2 Fiber inner diameter φ0.25×16core×2 Working temperature -55°C~+70°C Minimum bending radius R15
FR-50S Different reflection 	Unit mm)  Detect area details 	①Light-emitting surface 50mm Spor Spacing 1.61mm Fiber outer diameter φ2.2 Fiber inner diameter φ0.25×16core×2 Working temperature -55°C~+70°C Minimum bending radius R15
FR-70S Different reflection 	Unit mm)  Detect area details 	①Light-emitting surface 70mm Spor Spacing 2.25mm Fiber outer diameter φ2.2 Fiber inner diameter φ0.25×16core×2 Working temperature -55°C~+70°C Minimum bending radius R15

FR-100S Different reflection 	Unit mm) 	①Light-emitting surface 100mm Spor Spacing 3.2mm Fiber outer diameter φ2.2 Fiber inner diameter φ0.25××16core×2 Working temperature -55°C~+70°C Minimum bending radius R15
FR-120S Different reflection 	Unit mm) 	①Light-emitting surface 6mm Spor Spacing 3.87mm Fiber outer diameter φ1.3 Fiber inner diameter φ0.25×16core×2 Working temperature -55°C~+70°C Minimum bending radius R15
FR-A10 Different reflection 	Unit mm) 	①Light-emitting surface 11mm Spor Spacing 0.73mm Fiber outer diameter φ2.2 Fiber inner diameter φ0.25×16core×2 Working temperature -55°C~+70°C Minimum bending radius R15
FT-10F Frontal detection Through beam 	Unit mm) 	①Light-emitting surface 6mm Spor Spacing 0.4mm Fiber outer diameter φ1.3 Fiber inner diameter φ0.25×16core×2 Working temperature -55°C~+70°C Minimum bending radius R15
FT-15F Frontal detection Through beam 	Unit mm) 	①Light-emitting surface 6mm Spor Spacing 0.4mm Fiber outer diameter φ1.3 Fiber inner diameter φ0.25×16core×2 Working temperature -55°C~+70°C Minimum bending radius R15
FT-15S Through beam 	Unit mm) 	①Light-emitting surface 6mm Spor Spacing 0.4mm Fiber outer diameter φ1.3 Fiber inner diameter φ0.25×16core×2 Working temperature -55°C~+70°C Minimum bending radius R15

FT-20F Frontal detection Through beam 	Unit mm) 	①Light-emitting surface 11mm Spor Spacing 0.73mm Fiber outer diameter φ2.2 Fiber inner diameter φ0.25×16core×2 Working temperature -55°C~+70°C Minimum bending radius R15
FT-20S Through beam 	Unit mm) 	①Light-emitting surface 11mm Spor Spacing 0.73mm Fiber outer diameter φ2.2 Fiber inner diameter φ0.25×16core×2 Working temperature -55°C~+70°C Minimum bending radius R15
FT-25S Through beam 	Unit mm) 	①Light-emitting surface 25mm Spor Spacing 0.8mm Fiber outer diameter φ2.2 Fiber inner diameter φ0.25×32core×2 Working temperature -55°C~+70°C Minimum bending radius R15
FT-30S Through beam 	Unit mm) 	①Light-emitting surface 30mm Spor Spacing 0.96mm Fiber outer diameter φ2.2 Fiber inner diameter φ0.25×32core×2 Working temperature -55°C~+70°C Minimum bending radius R15
FT-35S Through beam 	Unit mm) 	①Light-emitting surface 35mm Spor Spacing 1.12mm Fiber outer diameter φ2.2 Fiber inner diameter φ0.25×32core×2 Working temperature -55°C~+70°C Minimum bending radius R15
FT-50S Through beam 	Unit mm) 	①Light-emitting surface 50mm Spor Spacing 1.61mm Fiber outer diameter φ2.2 Fiber inner diameter φ0.25×32core×2 Working temperature -55°C~+70°C Minimum bending radius R15

FT-70S Through beam 	Unit mm) 	①Light-emitting surface 75mm Spor Spacing 2.25mm Fiber outer diameter φ2.2 Fiber inner diameter φ0.25×32core×2 Working temperature -55°C~+70°C Minimum bending radius R15
FT-100S Through beam 	Unit mm) 	①Light-emitting surface 100mm Spor Spacing 3.2mm Fiber outer diameter φ2.2 Fiber inner diameter φ0.25×32core×2 Working temperature -55°C~+70°C Minimum bending radius R15
FT-120S Through beam 	Unit mm) 	①Light-emitting surface 6mm Spor Spacing 3.87mm Fiber outer diameter φ1.3 Fiber inner diameter φ0.25×32core×2 Working temperature -55°C~+70°C Minimum bending radius R15
FT-A10 Through beam 	Unit mm) 	①Light-emitting surface 11mm Spor Spacing 0.73mm Fiber outer diameter φ2.2 Fiber inner diameter φ0.25×16core×2 Working temperature -55°C~+70°C Minimum bending radius R15
FU-12T Through beam 	Unit mm) 	①Light-emitting surface 16.5mm Spor Spacing 1.06mm Fiber outer diameter φ2.2 Fiber inner diameter φ0.25×16core×2 Working temperature -55°C~+70°C Minimum bending radius R15
FT-11S Through beam 	Unit mm) 	①Light-emitting surface 11mm Spor Spacing 0.73mm Fiber outer diameter φ2.2 Fiber inner diameter φ0.25×16core×2 Working temperature -55°C~+70°C Minimum bending radius R15

- ※ Three-color light source, using RGB light source to identify a variety of targets High stability
- ※ For use with fiber optic sensors



Selection Guide

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YR	C	3	10
①	②	③	④
①Model Description:YR: Diffuse Color Fiber Optic Sensor			
② Product Specifications: C: coaxial type			
③ Fiber Head Diameter: M3:M3*0.5mm、M6: M6*0.75mm			
④ Fiber optic cable length: 10:1M、20:2M			

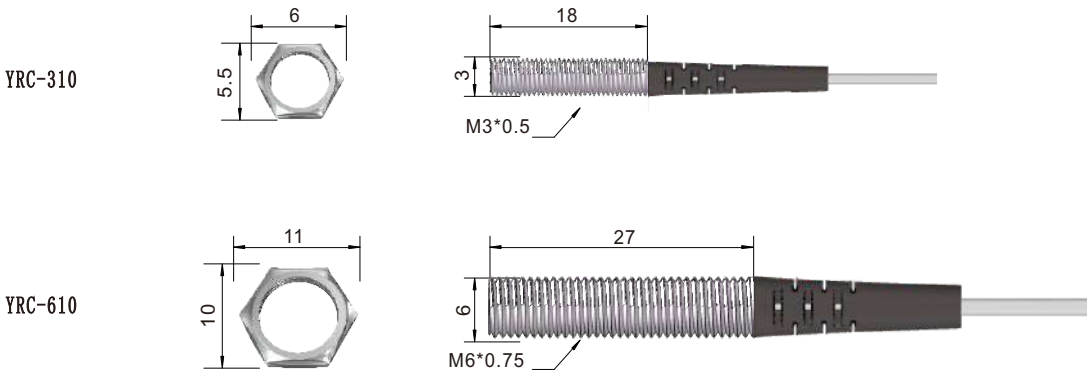
Specifications

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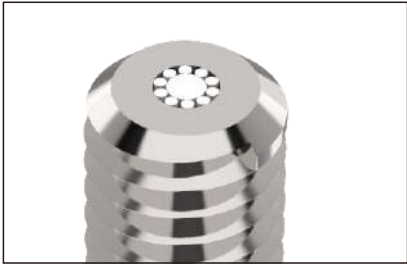
Specifications		
Model	YRC-310	YRC-610
Thread pitch	M3*0.5	M6*0.75
Fiber size	outer diameter 1.3mm	outer diameter 2.2mm
Sensing method	Coaxial reflex	
Detection distance	0-10MM	0-15MM
Best detection distance	0-5mm	
Fiber Head Material	Stainless steel	
Fiber line length	Standard 1M(canbecustomized2M/3M)	

Dimension

GTRIC®



coaxial fiber



- ※ Three-color light source, using RGB light source to identify a variety of targets High stability
- ※ For use with fiber optic sensors

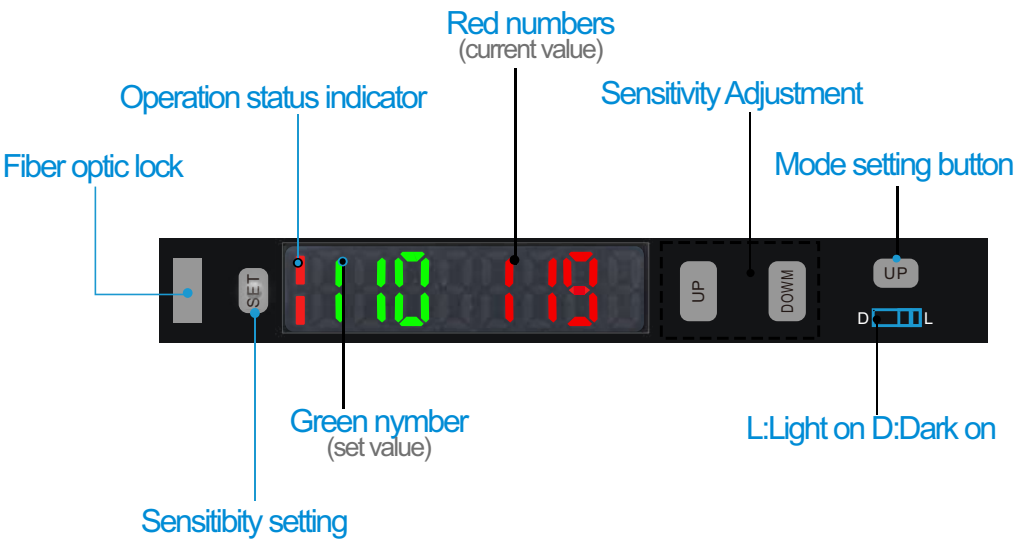


Specifications

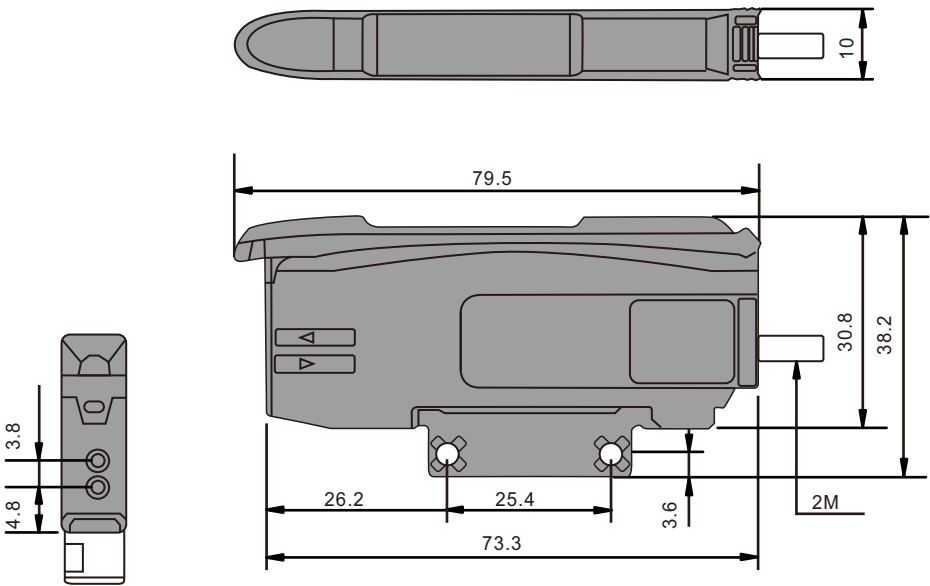


Specifications		
Model	DN10-YS	DP10-YS
Output type	NPN	PNP
Control output	one output	
Light source	Three primary colors, 4 elements light-emitting diode body	
Response time	50us in MARK mode, 130us in C and C1 mode	
output selection	Light on/Dark on	
Display indicator	Operation Indicator: Red LED, Dual Digital Monitor Threshold value (4-digit green LED body indicator) current value (4-digit red LED body indicator) light up together. Value range: 0-9999	
Detection mode	Light intensity detection MARK and automatic color matching detection Ccolor+brightness value detection CI	
Delay function	Four ways to choose off-delay timer/on-delay timer/one-shot timer/on-delay one-shot timer	
Delay time selection	1MS-9999MS	
Control output	NPN/PNP open collector 24V, 100mA max	
Power supply	12-24VDC±10%	
Ambient luminance	Incandescent lamp: ≤3000 lux Sunlight: ≤1000 lux	
Power consumption	Max 300MW	
Anti-vibration	10-55 Hz, double amplitude 1.5 mm, XYZ three directions, 1 hours each	
Impact resistance	(50G) 500m/S ² X, Y, Z three directions	
Operating temperature	-25 ~55	
Operating humidity	35-85%RH	

If you need a detailed amplifier product manual, please contact our company



Dimension



- ※ Accurate identification of subtle color differences, 4-channel design, saving space and cost
- ※ Accurately identify more than 1000 colors, multiple detection modes
- ※ Suitable for various application scenarios, can be equipped with color-specific probes, and compatible with all fiber optic probes
- ※ Suitable for detecting objects that do not emit light by themselves
- ※

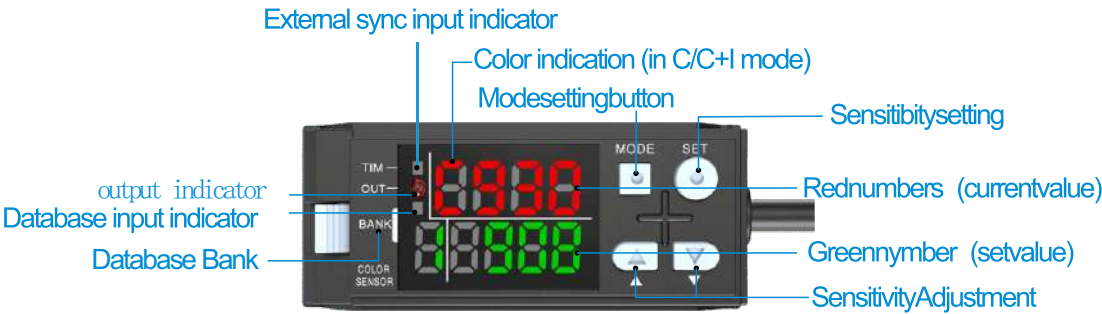


Specifications

GTRIC®

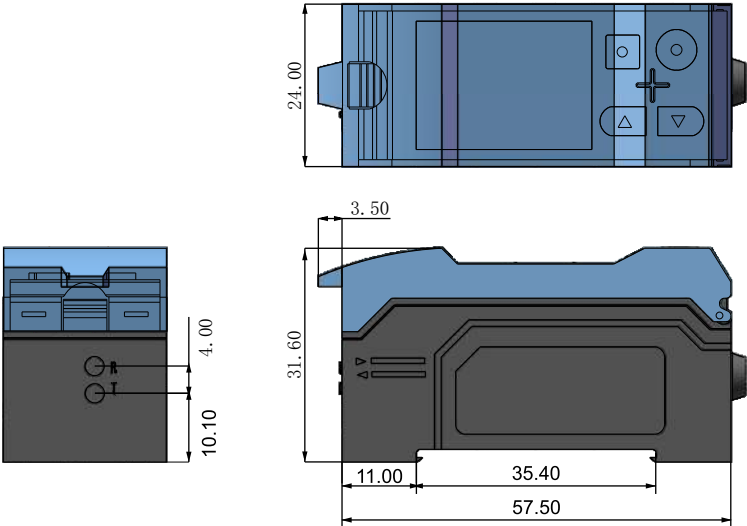
Specifications		
Model	EB-C1	EB-C1P
Output type	NPN	PNP
Light source	Red LED, Green LED, Blue LED	
Response time	200μs(HSP)/1ms(FINE)	
Indicator light	Output: Red LED, External sync input: Red LED Matching rate/received light intensity: LED(green/red)	
Error display	Excessive light intensity, insufficient light intensity, insufficient chromatic aberration	
Calibration method	One-point/two-point calibration	
Error adjustment	Digital display value setting	
Differential recognition Mode	Cmode/C+Imode/Imode	Cmode/C+Imode/Imode
Timer function	Timer OFF/ON Delay/OFF Delay/One-shot Shot	
output selection	Matching output: Turn on when the target color matches the memory color Mismatch output: Turn on when the color of the target object is different from the recorded color	
External sync input	Response speed: maximum 500us	
External Calibration Input	Input response time: minimum 20ms	
Record color choices	Library selection(operated by external input or key), no voltage input	
Control Output	NPN(PNP):Max 40VDC Max(100mA),Residual voltage: Max 1.0V	
protection circuit	Reverse electrode protection, overcurrent protection, overvoltage	
power supply	12 to 24VDC±10%, Ripple(P-P): 10%max	
Consumption current	75mAmax	
Ambient Luminosity	Incandescent: Max. 5,000lux, Daylight: Max. 10,000lux	
ambient temperature	-10~55°C	
Relative humidity	35-85%RH	
Anti-vibration	10-55 Hz, double amplitude 1.5 mm, XYZ three directions, 1 hours each	
Impact resistance	(50G)500m/S2 X, Y, Z three directions	
Sensing side	PC	
Connection	2MPVC Cable	

If you need a detailed amplifier product manual, please contact our company



Dimension

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Specifications

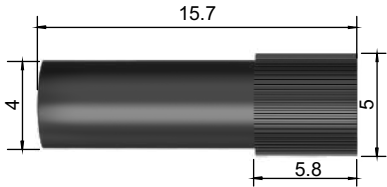


Specifications			
Model	Products that can be matched	Detect distance	light spot
2HA	M3 diffuse reflection series fiber optic sensor	9mm	0.4mm
3HA	M3 diffuse reflection series fiber optic sensor	20mm	4mm
4HA	M3 diffuse reflection series fiber optic sensor	15mm	0.5mm
6HA	M3 diffuse reflection series fiber optic sensor	35mm	3mm
J-M4	M4 through-beam series fiber optic sensor	20MM	1.5mm
J-M6	M6 difffuse refllection series fifiber optic sensot	70mm	3-10mm
F4	M4 difffuse refllection series fifiber optic sensot	3000mm	2mm
YRS-2HA	M3 coaxial diffuse reflection color fiber optic sensor	1-3mm	0.4mm
YRS-6HA	M6 coaxial diffuse reflection color fiber optic sensor	3-10mm	2mm

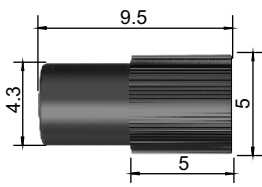
Dimension



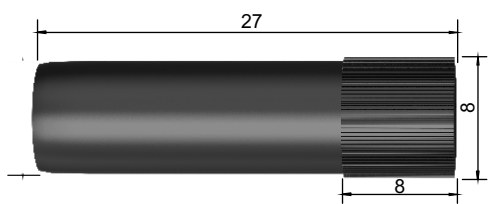
2HA



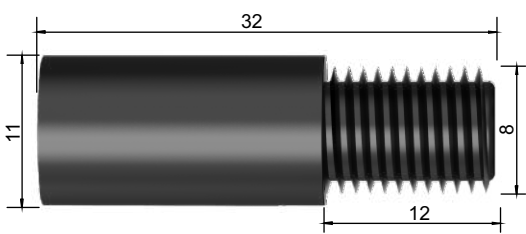
3HA



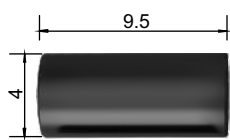
4HA



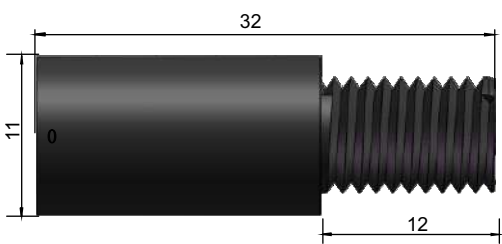
6HA



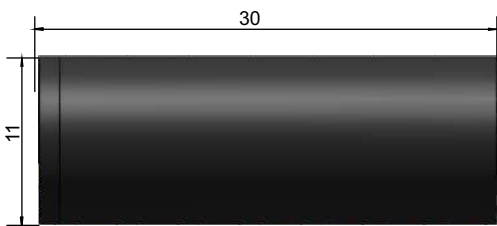
F-4



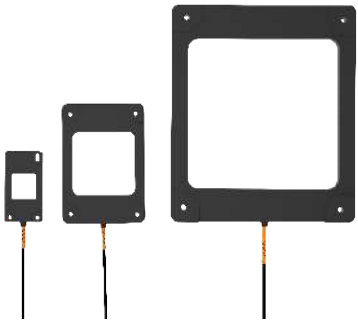
YRS-2HA



YRS-6HA



- ✖ For counting
- ✖ Self-contained fiber amplifier, no blind spot detection



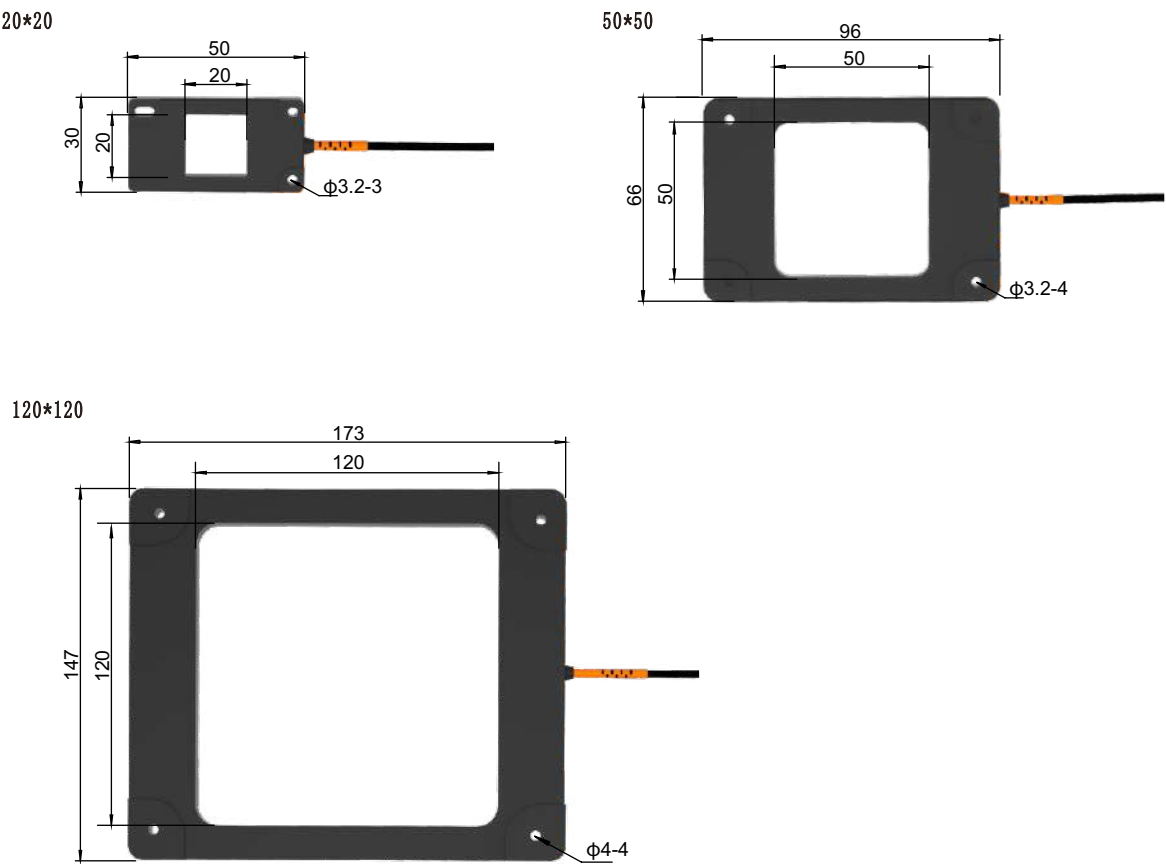
Specifications

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Specifications			
Model	Sensor size	Amplifiers that need to be matched	voltage
20*20	20*20mm	Falling Object Detection Special Amplifier	12-24V
50*50	50*50mm	Falling Object Detection Special Amplifier	12-24V
120*120	120*120mm	Falling Object Detection Special Amplifier	12-24V

Dimension

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- ※ Three-color light source, using RGB light source to identify a variety of targets High stability
- ※ For use with fiber optic sensors

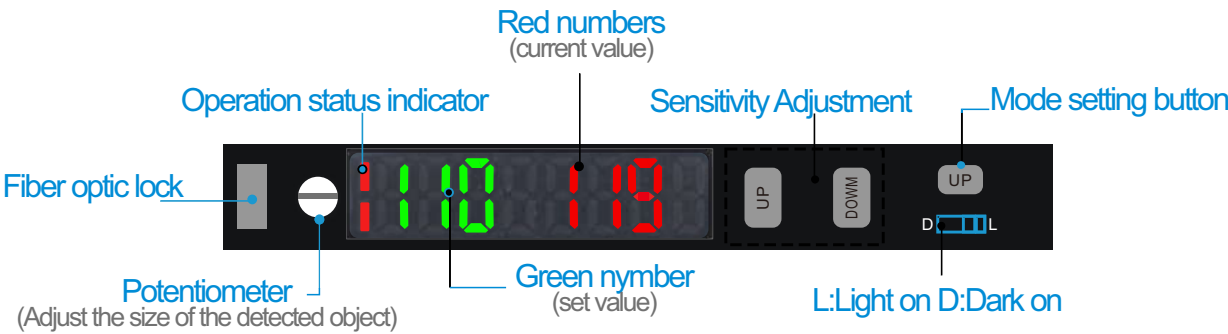


Specifications

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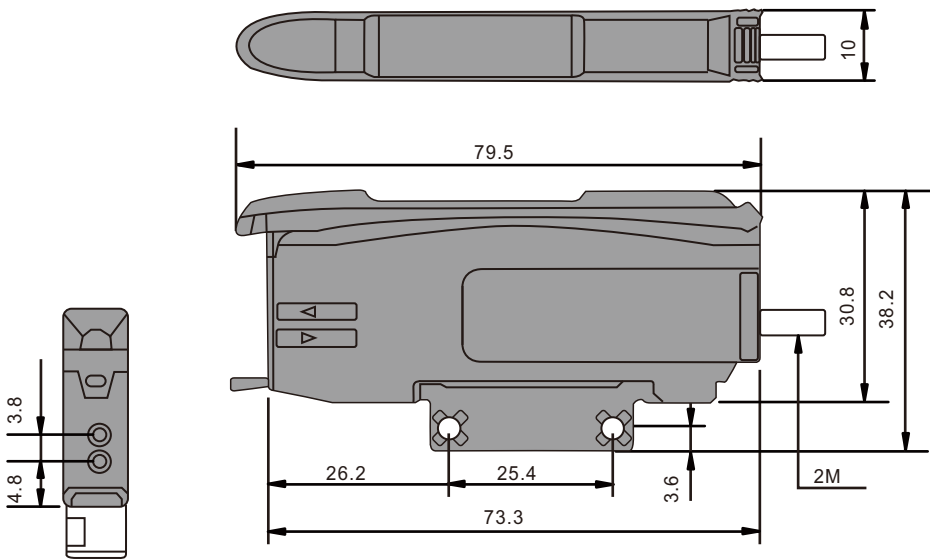
Specifications		
Model	DN10-LL	DP10-LL
Output type	NPN	PNP
Control output	Two out put ports Black line object drop detection output, white line counter output output 80MS	
Light source	Red, 4-element LED body	
Response time	Fastest speed: 2US	
Output selection	Light on/Dark on	
Display indicator	Operation Indicator: Red LED, Dual Digital Monito Threshold value(4-digit green LED body indicator) current value(4-digit red LED body indicator) light up together. Value range: 0-9999	
Adjustment method	The size of the detected object is adjusted by the adjustable resistance. When it is adjusted clockwise, the detectable object gradually decreases. When it is adjusted counterclockwise, the detectable object is increased, and the minimum detected object is 0.1mm.	
Delay function	Four ways to choose off-delay timer/on-delay timer/one-shot timer/on-delay one-shot timer	
Delay time selection	1MS-9999MS	
Control output	NPN/PNP open collector 24V, 100mAmax	
Power supply	12-24VDC +10%	
Ambient luminance	Incandescent lamp: S3000 lux Sunlight: S1000 lux	
Power consumption	Standard Mode: Max 300mw, Max Voltage 24V	
Anti-vibration	10-55 Hz, double amplitude 1.5 mm, XYZ three directions, 1 hours each	
Impact resistance	(50G)500m/S2 X, Y, Z three directions.	
Operating temperature	-25° C~55° C	
Operating humidity	35-85% RH	
Connection	2MPVC Cable	
Sensing side	PBT	

If you need a detailed amplifier product manual, please contact our company



Dimension

GTRIC®



- ※ Easy installation IP65 rated protection
Three years warranty
- ※ Multiple specifications are available
- ※ Can be customized



Selection Guide



LC	20	—	04	NP	2
①	②		③	④	⑤

- ①**Model**:LC:light curtain sensor
- ②**BeamSpacing Number**: 20mm Beam Spacing (unit: mm)
- ③**Number of spotsNumber**: Number of spots (unit: mm)
- ④**Power supply**:NP:NPNorPNP、 J:Relay output
- ⑤**Control output**:1:Normally open、 2:Normally closed

Specifications



Light curtain optical axis spacing 20mm series			
Protection height	60-2000mm(regular)	Workingtemperature	1-10-55°
Optical axis spacing	20mm/40mm	Working environment humidity	<85%
Number of optical axes	4,6,8,10....	Output current	≤200mA
Operating Voltage	DC24V+20%	power	<5W
Insulation resistance	≥100MΩ	Resist light interference	10000Lux
Responsetime	<10ms	Dielectric strength	AC1500V.60SNo breakdown or flicker
Protective distance	0.1-2500mm	cross-sectional size	30*30mm
	(Can Customizable)	Protection class	IP65
output method	Npn or Pnp (regular)/relay NO/relay NC (optional)		

Dimension



20mm Transistor Output

Light curtain optical axis spacing 20mm series			
Model	Number of beams	Protection height(mm)	Shell height(mm)
LC20-04-NP2	4	60	110
LC20-06-NP2	6	100	160
LC20-08-NP2	8	140	200
LC20-10-NP2	10	180	240
LC20-12-NP2	12	220	280
LC20-14-NP2	14	260	320
LC20-16-NP2	16	300	360
LC20-18-NP2	18	340	400
LC20-20-NP2	20	380	440
LC20-22-NP2	22	420	480
LC20-24-NP2	24	460	520
LC20-26-NP2	26	500	560
LC20-28-NP2	28	540	600
LC20-30-NP2	30	580	640
LC20-32-NP2	32	620	680
LC20-34-NP2	34	099	720
LC20-36-NP2	36	700	760

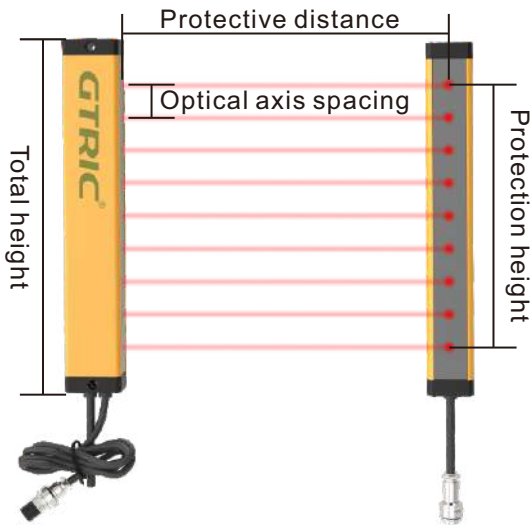
Light curtain optical axis spacing 20mm series			
Model	Number of beams	Protection height(mm)	Shell height(mm)
LC20-38-NP2	38	740	800
LC20-40-NP2	40	780	840
LC20-42-NP2	42	820	880
LC20-44-NP2	44	860	920
LC20-44-NP2	46	900	960
LC20-48-NP2	48	940	1000
LC20-50-NP2	50	980	1040

20mm Intermediate relay Output

Light curtain optical axis spacing 20mm series			
Model	Number of beams	Protection height(mm)	Shell height(mm)
LC20-04-J	4	60	120
LC20-06-J	6	100	170
LC20-08-J	8	140	210
LC20-10-J	10	180	250
LC20-12-J	12	220	290
LC20-14-J	14	260	330
LC20-16-J	16	300	370
LC20-18-J	18	340	410
LC20-20-J	20	380	450
LC20-22-J	22	420	490
LC20-24-J	24	460	530
LC20-26-J	26	500	570
LC20-28-J	28	540	610
LC20-30-J	30	580	650
LC20-32-J	32	620	690
LC20-34-J	34	099	730
LC20-36-J	36	700	770

Dimension

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40mm Transistor Output

Light curtain optical axis spacing 40mm series			
Model	Number of beams	Protection height(mm)	Shell height(mm)
LC40-04-NP2	4	120	200
LC40-06-NP2	6	200	270
LC40-08-NP2	8	280	350
LC40-10-NP2	10	360	430
LC40-12-NP2	12	440	510
LC40-14-NP2	14	520	590
LC40-16-NP2	16	600	670
LC40-18-NP2	18	680	750
LC40-20-NP2	20	760	830
LC40-22-NP2	22	840	910
LC40-24-NP2	24	920	990
LC40-26-NP2	26	1000	1070
LC40-28-NP2	28	1080	1150
LC40-30-NP2	30	1160	1230
LC40-32-NP2	32	1240	1310
LC40-34-NP2	34	1320	1390
LC40-36-NP2	36	1400	1470
LC40-38-NP2	38	1480	1550
LC40-40-NP2	40	1560	1630
LC40-42-NP2	42	1640	1710
LC40-44-NP2	44	1720	1790



20mm pitch light curtain sensor use effect



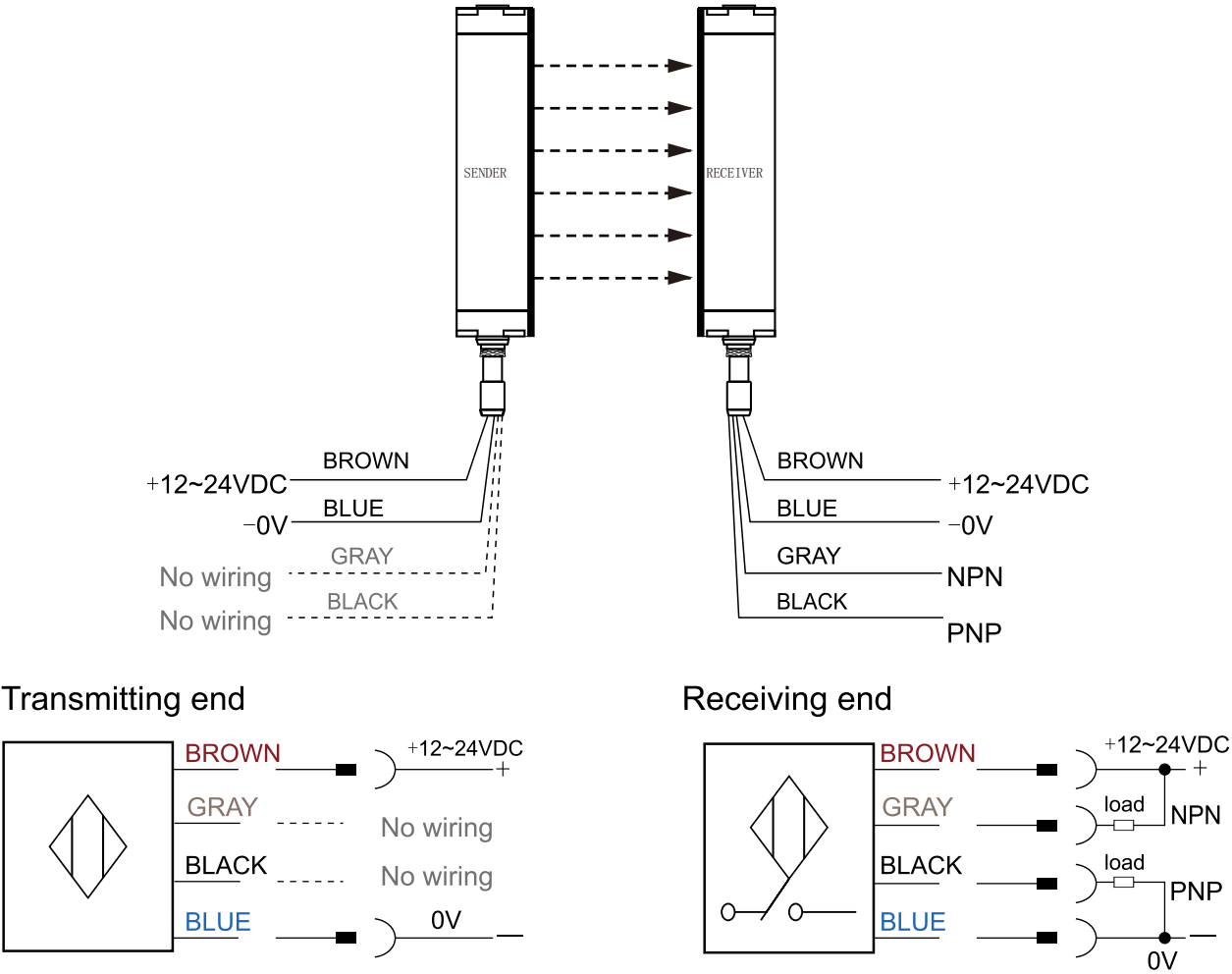
40mm pitch light curtain sensor use effect

40mm Intermediate relay Output

Light curtain optical axis spacing 40mm series			
Model	Number of beams	Protection height(mm)	Shell height(mm)
LC40-04-J	4	120	210
LC40-06-J	6	200	280
LC40-08-J	8	280	360
LC40-10-J	10	360	440
LC40-12-J	12	440	520
LC40-14-J	14	520	600
LC40-16-J	16	600	680
LC40-18-J	18	680	760
LC40-20-J	20	760	840
LC40-22-J	22	840	920
LC40-24-J	24	920	1000
LC40-26-J	26	1000	1080
LC40-28-J	28	1080	1160
LC40-30-J	30	1160	1240

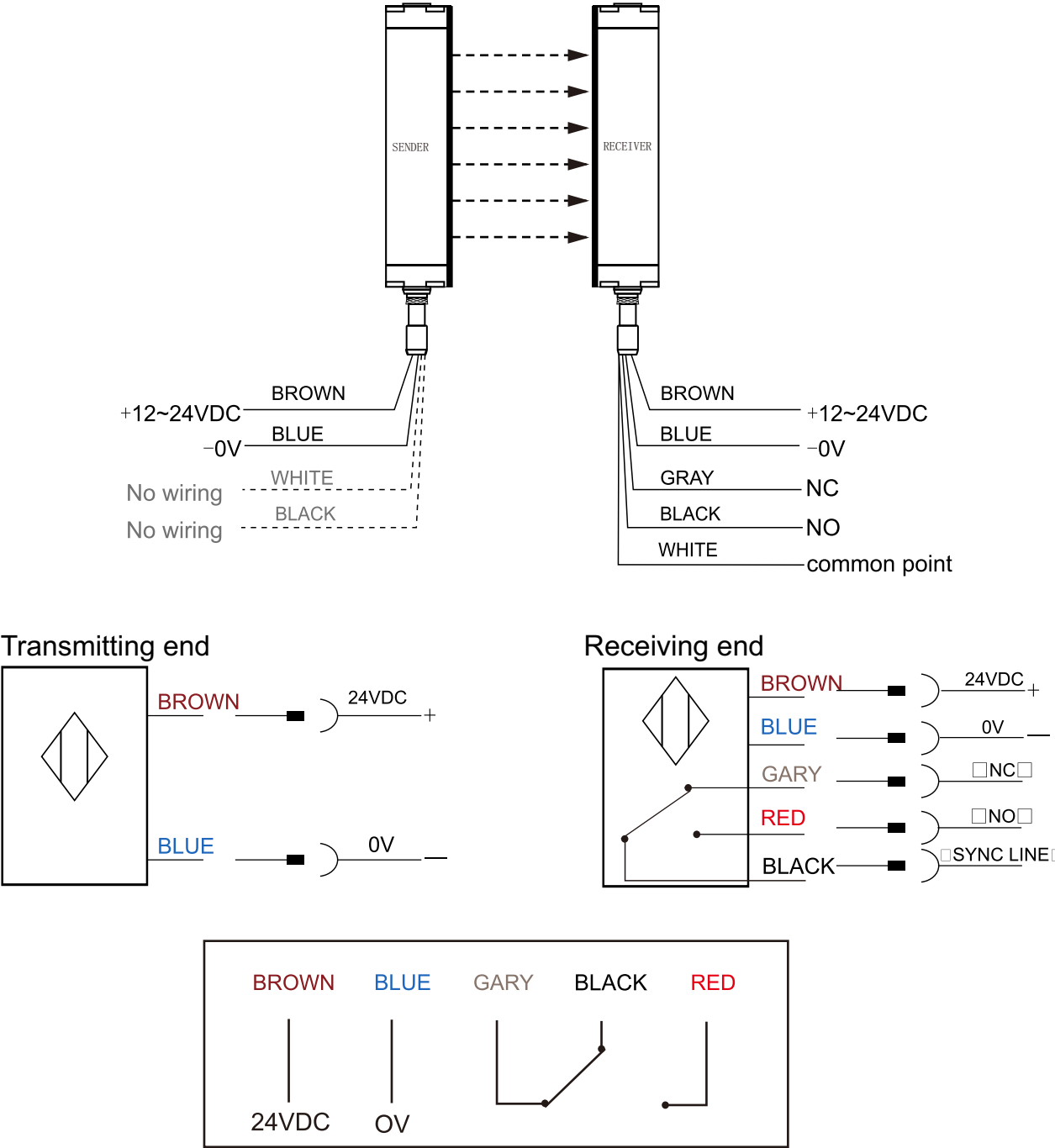
Light curtain optical axis spacing 40mm series			
Model	Number of beams	Protection height(mm)	Shell height(mm)
LC40-32-J	32	1240	1320
LC40-34-J	34	1320	1400
LC40-36-J	36	1400	1480
LC40-38-J	38	1480	1560
LC40-40-J	40	1560	1640
LC40-42-J	42	1640	1720
LC40-44-J	44	1720	1800

NPN/PNP Output



The output signal of this product is transistor output
NPN NC/NPN NO/PNP NC Four outputs can only choose one of the two
Default NPN NC or PNP NC

Common Relay Output





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