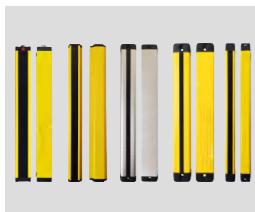




JUÁREZ PROVEEDURIA
INDUSTRIAL

CATALOG

Product Content



Safety light curtain
P07-P11



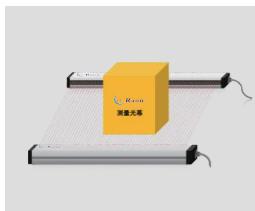
Proximity sensors
P37-P55



Ultrasonic sensors
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Laser distance sensors
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Measuring light curtain
P12



Color sensors
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Pressure sensor
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Laser displacement sensor
P59-P60



Label sensors
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Fiber optic sensors
P23-P31



Safety relay
P61



Laser sensors
P32-P36



Door lock switch
P62-P63

Product Content

Safety Light Curtain



Safety light curtain

Universal type



Model	LE-B Series
Sectional size	30*30mm
Beam number	4-292 beams (general)
Protective height	70-2994mm (general)
Detection distance	0.01-3m/0.01-5m
Beam pitch	10/20/30/40mm
Supply voltage	10-30VDC
Signal output	NPN/PNP relays (optional)
Sync type	Optical /line synchronization (optional)
Response time	≤10ms
Protection level	IP65/ IP67 (optional)
Light curtain form	Counter shooting
Product application	All kinds of automation equipment, jig equipment, packaging machines, food machinery 3C semiconductor equipment, photovoltaic equipment, lithium equipment, new energy equipment, medical equipment.

Safety light curtain

Ultra long distance type



Model	LE-C Series
Sectional size	35*40mm
Beam number	4-292 beams (general)
Protective height	70-2994mm (general)
Detection distance	0.01-3m/0.01-5m/0.01-10m/0.01-20m (optional)
Beam pitch	10/20/30/40mm
Supply voltage	10-30VDC
Signal output	NPN/PNP relays (optional)
Sync type	Optical /line synchronization (optional)
Response time	≤10ms
Protection level	IP65/ IP67 (optional)
Light curtain form	Counter shooting
Product application	All kinds of automation equipment, jig equipment, packaging machines, food machinery 3C semiconductor equipment, photovoltaic equipment, photovoltaic equipment, lithium equipment, new energy equipment, medical equipment.

Safety Light Curtain

Safety light curtain Thin type



Model	LE-E Series
Sectional size	32*20mm
Beam number	4-292 beams (general)
Protective height	70-2992mm (general)
Detection distance	0.01-3m/0.01-5m
Beam pitch	10/20/30/40mm
Supply voltage	10-30VDC
Signal output	NPN/PNP relays (optional)
Sync type	Optical /line synchronization (optional)
Response time	10ms
Protection level	IP65/ IP67 (optional)
Light curtain form	Counter shooting
Product application	All kinds of automation equipment, jig equipment, packaging machines, food machinery 3C semiconductor equipment, photovoltaic equipment, lithium equipment, new energy equipment, medical equipment.

Safety light curtain Front slim type



Model	LE-F Series
Sectional size	25*12mm
Beam number	4-292 beams (general)
Protective height	70-2994mm (general)
Detection distance	0.01-2m/0.01-3m
Beam pitch	10/20/40mm
Supply voltage	10-30VDC
Signal output	NPN/PNP (optional)
Sync type	Optical /line synchronization (optional)
Response time	≤10ms
Protection level	IP65/IP67 (optional)
Light curtain form	Counter shooting
Product application	Automation equipment, jig equipment, electronics industry, food manufacturing, machines with small space, etc.

Safety light curtain Side slim type



Model	LE-P Series
Sectional size	10*22mm
Beam number	4-292 beams (general)
Protective height	70-2994mm (general)
Detection distance	0.1-2m/0.1-3m
Beam pitch	10/20/40mm
Supply voltage	10-30VDC
Signal output	NPN/PNP (optional)
Sync type	Optical /line synchronization (optional)
Response time	≤10ms
Protection level	IP65/ IP67 (optional)
Light curtain form	Counter shooting
Product application	Automation equipment, jig equipment, electronics industry, food manufacturing, machines with small space, etc.

Safety light curtain No blind zone type



Model	LE-H Series
Sectional size	28*28mm
Beam number	4-292 beams (general)
Protective height	135-2992mm (general)
Detection distance	0.01-2m/0.01-3m
Beam pitch	10/20/40mm
Supply Voltage	10-30VDC
Signal output	NPN/PNP (optional)
Sync type	Optical /line synchronization (optional)
Response time	≤10ms
Protection level	IP65/ IP67 (optional)
Light curtain form	Counter shooting
Product application	All kinds of automation equipment, jig equipment, packaging machines, food machinery 3C semiconductor equipment, photovoltaic equipment, lithium equipment, new energy equipment, medical equipment.

Safety Light Curtain

Safety light curtain

Special type for press machine

Model

LE-Series

Sectional size

35*40mm

Beam number

4-292 beams (general)

Protective height

70-2994mm (general)

Detection distance

0.01-3m/0.01-5m /0.01-10m /0.01-20m

Beam pitch

10/20/30/40mm

Supply voltage

220VAC

Supply output

Relays NO+NC

Sync type

Line synchronization

Response time

≤10ms

Protection level

IP65/ IP67 (optional)

Light curtain form

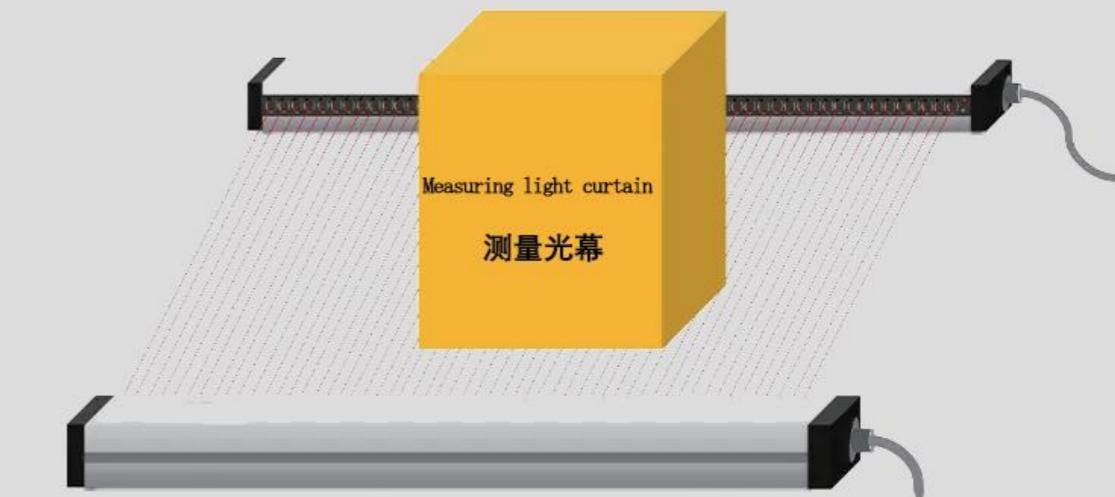
Counter shooting

Product application

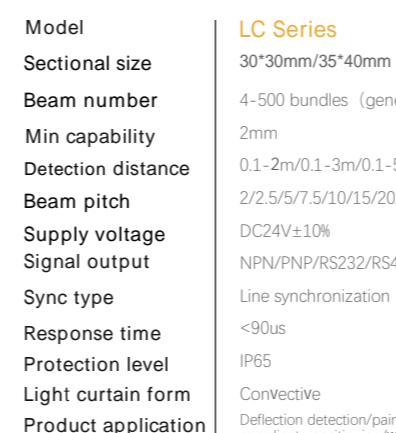
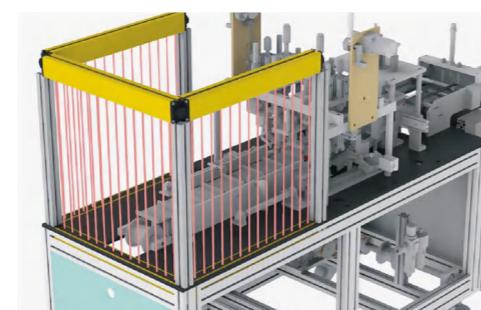
Kinds of automation equipment, jig equipment, packaging machines, food machinery 3C semiconductor equipment, photovoltaic equipment, lithium equipment, new energy equipment, medical equipment.



Measuring Light Curtain



Measuring light curtain



Model

LC Series

Sectional size

30*30mm/35*40mm

Beam number

4-500 bundles (general)

Min capability

2mm

Detection distance

0.1-2m/0.1-3m/0.1-5m/0.1-10m/0.1-15m/0.1-20m

Beam pitch

2/2.5/7.5/10/15/20/30/40/60mm

Supply voltage

DC24V±10%

Signal output

NPN/PNP/RS232/RS485/relays (optional)

Sync type

Line synchronization

Response time

<90us

Protection level

IP65

Light curtain form

Deflection detection/painting detection/dimension measurement/coordinate positioning/Workpiece counting/material sorting speed detection/precision offset detection.

Product application



Vehicle separation light curtain



Slot photoelectric sensors

Slot type (EU-25 series)



Model	EU-K25	EU-L25	EU-F25	EU-R25	EU-U25
Detection distance	5mm (Slot width)				
Standard object	1.2*2.0mm opaque objects				
Repet capability	0.03mm the follow				
Output mode	NPN or PNP open collector				
Switching mode	Lon/D.on switchable				
Response frequency	2KHz	2KHz	2KHz	2KHz	2KHz
Light source	Infrared LED (940nm)				
Supply voltage	12-24VDC±10%	12-24VDC±10%	12-24VDC±10%	12-24VDC±10%	12-24VDC±10%
Protection level	IP65	IP65	IP65	IP65	IP65
Outlet method	1m 4core wire (standard)				
Product application	Home positioning, limit limit, counting				

Slot photoelectric sensors

Slot type (EU-SX67 series)



Model	EU-SX676	EU-SX672	EU-SX67
Detection distance	5mm (Slot width)	5mm (Slot width)	5mm (Slot width)
Standard assays	1.2*2.0mm opaque objects	1.2*2.0mm opaque objects	1.2*2.0mm opaque objects
Repet accuracy	0.03mm the follow	0.03mm the follow	0.03mm the follow
Output mode	NPN or PNP open collector	NPN or PNP open collector	NPN or PNP open collector
Switching mode	Lon/D.on switchable	Lon/D.on switchable	Lon/D.on switchable
Response frequency	2KHz	2KHz	2KHz
Light source	Infrared LED (940nm)	Infrared LED (940nm)	Infrared LED (940nm)
Operating voltage	12-24VDC±10%	12-24VDC±10%	12-24VDC±10%
Protection level	IP65	IP65	IP65
Outlet method	2M 4core cable	2M 4core cable	2M 4core cable
Product application	Home positioning, limit limit, counting	Home positioning, limit limit, counting	Home positioning, limit limit, counting

Slot photoelectric sensors

Slot type (EU-SX67 series)



Model	EU-SX671	EU-SX670	EU-SX674
Detection distance	5mm (Slot width)	5mm (Slot width)	5mm (Slot width)
Standard assays	1.2*2.0mm opaque objects	1.2*2.0mm opaque objects	1.2*2.0mm opaque objects
Repet accuracy	0.03mm the follow	0.03mm the follow	0.03mm the follow
Output mode	NPN or PNP open collector	NPN or PNP open collector	NPN or PNP open collector
Switching mode	Lon/D.on switchable	Lon/D.on switchable	Lon/D.on switchable
Response frequency	2KHz	2KHz	2KHz
Light source	Infrared LED (940nm)	Infrared LED (940nm)	Infrared LED (940nm)
Operating voltage	12-24VDC±10%	12-24VDC±10%	12-24VDC±10%
Protection level	IP65	IP65	IP65
Outlet method	2M 4core cable	2M 4core cable	2M 4core cable
Product application	Home positioning, limit limit, counting	Home positioning, limit limit, counting	Home positioning, limit limit, counting

Slot photoelectric sensors

Slot type (EU-45 series)



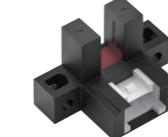
Model	EU-K45
Detection distance	5mm (Slot width)
Standard assays	1.2×2.0mm opaque objects
Repet accuracy	0.03mm the follow
Output mode	NPN or PNP open collector
Switching mode	L.on/D.on switchable
Response frequency	2KHz
Light source	Infrared LED (940nm)
Operating voltage	12-24VDC±10%
Protection level	IP65
Outlet method	2M 4core cable
Product application	Home positioning, limit limit, counting

Model	EU-L45
Detection distance	5mm (Slot width)
Standard assays	1.2×2.0mm opaque objects
Repet accuracy	0.03mm the follow
Output mode	NPN or PNP open collector
Switching mode	L.on/D.on switchable
Response frequency	2KHz
Light source	Infrared LED (940nm)
Operating voltage	12-24VDC±10%
Protection level	IP65
Outlet method	2M 4core cable
Product application	Home positioning, limit limit, counting

Model	EU-T45
Detection distance	5mm (Slot width)
Standard assays	1.2×2.0mm opaque objects
Repet accuracy	0.03mm the follow
Output mode	NPN or PNP open collector
Switching mode	L.on/D.on switchable
Response frequency	2KHz
Light source	Infrared LED (940nm)
Operating voltage	12-24VDC±10%
Protection level	IP65
Outlet method	2M 4core cable
Product application	Home positioning, limit limit, counting

Slot photoelectric sensors

Slot type (EU-65 series)



Model	EU-K65
Detection distance	6mm (Solt width)
Standard assays	1.2×2.0mm opaque objects
Repet accuracy	0.03mm the follow
Output mode	NPN or PNP open collector
Switching mode	L.on/D.on switchable
Response frequency	2KHz
Light source	Infrared LED (940nm)
Operating voltage	12-24VDC±10%
Protection level	IP65
Outlet method	4Core-to-plug cable
Product application	Home positioning, limit limit, counting

Model	EU-L65
Detection distance	6mm (Solt width)
Standard assays	1.2×2.0mm opaque objects
Repet accuracy	0.03mm the follow
Output mode	NPN or PNP open collector
Switching mode	L.on/D.on switchable
Response frequency	2KHz
Light source	Infrared LED (940nm)
Operating voltage	12-24VDC±10%
Protection level	IP65
Outlet method	4Core-to-plug cable
Product application	Home positioning, limit limit, counting

Model	EU-Y65
Detection distance	6mm (Solt width)
Standard assays	1.2×2.0mm opaque objects
Repet accuracy	0.03mm the follow
Output mode	NPN or PNP open collector
Switching mode	L.on/D.on switchable
Response frequency	2KHz
Light source	Infrared LED (940nm)
Operating voltage	12-24VDC±10%
Protection level	IP65
Outlet method	4Core-to-plug cable
Product application	Home positioning, limit limit, counting

Model	EU-T65
Detection distance	6mm (Solt width)
Standard assays	1.2×2.0mm opaque objects
Repet accuracy	0.03mm the follow
Output mode	NPN or PNP open collector
Switching mode	L.on/D.on switchable
Response frequency	2KHz
Light source	Infrared LED (940nm)
Operating voltage	12-24VDC±10%
Protection level	IP65
Outlet method	4Core-to-plug cable
Product application	Home positioning, limit limit, counting

Slot photoelectric sensors

Slot type (EU-45 series)



Model	EU-Y45
Detection distance	5mm (Slot width)
Standard assays	1.2×2.0mm opaque objects
Repet accuracy	0.03mm the follow
Output mode	NPN or PNP open collector
Switching mode	L.on/D.on switchable
Response frequency	2KHz
Light source	Infrared LED (940nm)
Operating voltage	12-24VDC±10%
Protection level	IP65
Outlet method	2M 4core cable
Product application	Home positioning, limit limit, counting

Model	EU-F45
Detection distance	5mm (Slot width)
Standard assays	1.2×2.0mm opaque objects
Repet accuracy	0.03mm the follow
Output mode	NPN or PNP open collector
Switching mode	L.on/D.on switchable
Response frequency	2KHz
Light source	Infrared LED (940nm)
Operating voltage	12-24VDC±10%
Protection level	IP65
Outlet method	2M 4core cable
Product application	Home positioning, limit limit, counting

Model	EU-R45
Detection distance	5mm (Slot width)
Standard assays	1.2×2.0mm opaque objects
Repet accuracy	0.03mm the follow
Output mode	NPN or PNP open collector
Switching mode	L.on/D.on switchable
Response frequency	2KHz
Light source	Infrared LED (940nm)
Operating voltage	12-24VDC±10%
Protection level	IP65
Outlet method	2M 4core cable
Product application	Home positioning, limit limit, counting

Slot photoelectric sensors

Slot type (EU-67A series)



Model	EU-670-A【K Type】
Detection distance	5mm (Slot width)
Standard assays	1.2×2.0mm opaque objects
Repet accuracy	0.03mm the follow
Output mode	NPN or PNP open collector
Switching mode	L.on/D.on switchable
Response frequency	2KHz
Light source	Infrared LED (940nm)
Operating voltage	12-24VDC±10%
Protection level	IP65
Outlet method	4Core-to-plug cable
Product application	Home positioning, limit limit, counting

Model	EU-671-A【L Type】
Detection distance	5mm (Slot width)
Standard assays	1.2×2.0mm opaque objects
Repet accuracy	0.03mm the follow
Output mode	NPN or PNP open collector
Switching mode	L.on/D.on switchable
Response frequency	2KHz
Light source	Infrared LED (940nm)
Operating voltage	12-24VDC±10%
Protection level	IP65
Outlet method	4Core-to-plug cable
Product application	Home positioning, limit limit, counting

Model	**EU-672-A【**

Photoelectric Sensors

Slot photoelectric sensors

Slot type (EU-67A series)



Model	EU-674-A 【Y Type】	EU-676-A 【F Type】	EU-677-A 【R Type】
Detection distance	5mm (Slot width)	5mm (Slot width)	5mm (Slot width)
Standard assays	1.2*2.0mm opaque objects	1.2*2.0mm opaque objects	1.2*2.0mm opaque objects
Repet accuracy	0.03mm the follow	0.03mm the follow	0.03mm the follow
Output mode	NPN or PNP open collector	NPN or PNP open collector	NPN or PNP open collector
Switching mode	t.Lon/D.on switchable	L.on/D.on switchable	L.on/D.on switchable
Response frequency	2KHz	2KHz	2KHz
Light source	Infrared LED (940nm)	Infrared LED (940nm)	Infrared LED (940nm)
Operating voltage	12-24VDC±10%	12-24VDC±10%	12-24VDC±10%
Protection level	IP65	IP65	IP65
Outlet method	4Core-to-plug cable	4Core-to-plug cable	4Core-to-plug cable
Product application	Home positioning, limit limit, counting	Home positioning, limit limit, counting	Home positioning, limit limit, counting

Square photoelectric sensors

Square LFD series



Model	LFD61-R10N/P LFD61-R30N/P
Detection method	Diffuse reflection type
Detection distance	100mmAdjustable[LFD61-R10...] 300mmAdjustable[LFD-R30...]
Sensitivity adjustment	Single-turn positioner
Output mode	NPN or PNP open collector
Switch mode	L.on/D.on switchable
Response time / frequency	≤2ms
Light source	Infrared LED (850nm)
Operating voltage	12-24VDC±10%
Protection level	IP65
Outlet method	2M 4core cable
Product application	Glass detection, PCB board detection and other object with or without detection, applicable to a variety of scenarios



Model	LFD61-T200N/P LFD61-T500N/P	LFD61-T300N/P LFD61-T1000N/P
Detection method	Convective	
Detection distance	2mAdjustable[LFD61-T200...]/3mNon-adjustable[LFD61-T300...] 5mNon-adjustable[LFD61-T500...]/10mNon-adjustable[LFD61-T1000...]	
Sensitivity adjustment	Single-turn positioner	
Output mode	NPN or PNP open collector	
Switch mode	L.on/D.on switchable	
Response time	≤2ms	
Light source	Infrared LED (850nm)	
Operating voltage	12-24VDC±10%	
Protection level	IP65	
Outlet method	2M 4core cable	
Product application	Glass detection, PCB board detection and other objects with or without detection, applicable to a variety of scenarios	

Photoelectric Sensors

Square retro reflection photoelectric sensor

Square LFD series



Model	LFD61-J500N/P LFD61-J1000N/P
Detection method	Regression reflex type
Detection distance	0-1mAdjustable[LFD61-J100...] 0-3mAdjustable[LFD61-J300...]
Sensitivity adjustment	Single-turn positioner
Output mode	NPN or PNP open collector
Switch mode	L.on/D.on switchable
Response time / frequency	≤5ms
Light source	Infrared LED (650nm)
Operating voltage	12-24VDC±10%
Protection level	IP65
Outlet method	2M 4core cable
Product application	Glass detection, PCB board detection and other objects with or without detection, applicable to a variety of scenarios

Background suppression photoelectric sensor

LFN Series 【Large light spot】



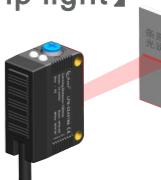
Model	LFN-CX100N/P LFN-CX200N/P LFN-CX300N/P
Detection method	Diffuse reflection type(Background Suppression)
Detection distance	100mmAdjustable[LFD-CX441...] 200mmAdjustable[LFD-CX442...] 300mmAdjustable[LFD-CX443...]
Sensitivity adjustment	Multi-turn positioner
Output mode	NPN or PNP open collector
Switch mode	L.on/D.on switchable
Response time / frequency	≤2ms
Light source	Infrared LED (650nm)
Operating voltage	12-24VDC±10%
Protection level	IP65
Outlet method	2M 4core cable
Product application	Glass detection, PCB board detection and other objects with or without detection, applicable to a variety of scenarios

Background suppression photoelectric sensor

LFN Series 【Small light spot】

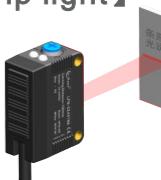


Model	LFN-CX100N(P)D LFN-CX200N(P)D LFN-CX300N(P)D
Detection method	Diffuse reflection type(Background suppression)
Detection distance	100mmAdjustable[LFD-CX441...] 200mmAdjustable[LFD-CX442...] 300mmAdjustable[LFD-CX443...]
Sensitivity adjustment	Multi-turn positioner
Output mode	NPN or PNP open collector
Switch mode	L.on/D.on switchable
Response time / frequency	≤2ms
Light source	Infrared LED (650nm)
Operating voltage	12-24VDC±10%
Protection level	IP65
Outlet method	2M 4core cable
Product application	Glass detection, PCB board detection and other objects with or without detection, applicable to a variety of scenarios



Background suppression photoelectric sensor

LFN Series 【Strip light】



Model	LFN-CX100N(P)A
Detection method	Diffuse reflection type(Background suppression)
Detection distance	100mmAdjustable
Sensitivity adjustment	Multi-turn positioner
Output mode	NPN or PNP open collector
Switch mode	L.on/D.on switchable
Response time / frequency	≤2ms
Light source	Infrared LED (650nm)
Operating voltage	12-24VDC±10%
Protection level	IP65
Outlet method	2M 4core cable
Product application	Glass detection, PCB board detection and other objects with or without detection, applicable to a variety of scenarios

Photoelectric Sensors

Digital display photoelectric sensor

LFN-S series



Model	LFN-S1000N/P (Spot light spot)
Detection method	Diffuse reflection type
Detection distance	1000mm
Output status	LIGHT-ON/DARK-ON(Light pass/dark pass)
Output port	One output port
Current consumption	≤20mA
Response time / frequency	50us
Light source	Infrared LED (624nm)
Operating voltage	12-24V DC±10%
Protection level	IP66
Outlet method	Lead-in type 2M 3core cable
Product application	Industrial conveyor belts, machine tool equipment limit switches, automation equipment, automatic assembly machines and other different work scenarios

Model	LFN-S150N(P)A (Spot Light Spot)
Detection method	Diffuse reflection type
Detection distance	500mm
Output status	LIGHT-ON/DARK-ON(Light pass, dark pass switching)
Output port	One output port
Current consumption	≤20mA
Response time / frequency	50us
Light source	Infrared LED (624nm)
Operating voltage	12-24V DC±10%
Protection level	IP66
Outlet method	Lead-in type 2M 3core cable
Product application	Industrial conveyor belts, machine tool equipment limit switches, automation equipment, automatic assembly machines and other different work scenarios

Photoelectric Sensors

Micro snap photoelectric sensors

LMC series

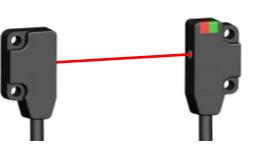
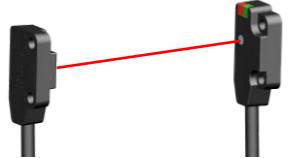


Model	LMC12NO/NC-R10 LMC12PO/PC-R10
Detection method	Diffuse reflection type
Detection distance	100mm
Indicator light	Action indicator: red
Ambient temperature	-25°C~55°C (Unfrozen condition)
Min detectables	φ12mmOpaque objects above
Response time / frequency	Max.5ms
Light source	850Infrared light-emitting diode (modulation)
Operating voltage	10-24V DC±10%
Protection level	IP65
Cable size	3.4×0.14mm ²
Product application	Road gate machine detection, garage door opener automotive and medical diagnostic instruments and many other scenario applications

Model	LMC12NO/NC-5M LMC12PO/PC-5M LMC12NO/NC-8M LMC12PO/PC-8M
Detection method	Through beam
Detection distance	5m/8m
Indicator light	Action indicator: red
Ambient temperature	-25°C~55°C (Unfrozen condition)
Min detectables	φ12mmOpaque objects above
Response time / frequency	Max.5ms
Light source	850Infrared light-emitting diode (modulation)
Operating voltage	10-24V DC±10%
Protection level	IP65
Cable size	3.4×0.14mm ²
Product application	Road gate machine detection, garage door opener automotive and medical diagnostic instruments and many other scenario applications

Ultra-thin photoelectric sensors

LUE series



Model	LUE-13RN/P
Detection method	2-25mm(White paper) 4-10mm(Black paper)
Detection distance	Diffuse reflection type - frontal detection
Accuracy	Less than 15% of the action distance
Output mode	NPN or PNP open collector
Min detectables	φ1mmOpaque objects above
Response time / frequency	<1ms (action / reset)
Light source	Red LED light (650nm)
Operating voltage	12-24V DC±10%
Protection level	IP66
Outlet method	Lead-in type (2M)
Product application	Transparent object detection, object presence or absence detection of small parts and high-speed moving objects, etc.

Model	LUE-13DN/P
Detection method	500mm[LUE-13DN...] 1000mm[LUE-13DTN...]
Detection distance	Contrast type - frontal detection
Accuracy	500mm[LUE-13DN...] 1000mm[LUE-13DTN...]
Output mode	NPN or PNP open collector
Min detectables	φ1mmOpaque objects above
Response time / frequency	<1ms (action / reset)
Light source	Red LED light (650nm)
Operating voltage	12-24V DC±10%
Protection level	IP66
Outlet method	Lead-in type (2M)
Product application	Transparent object detection, object presence or absence detection of small parts and high-speed moving objects, etc.

Model	LUE-13LN/P
Detection method	500mm[LUE-13LN...] 1000mm[LUE-13LTN...]
Detection distance	Contrast type - side detection
Accuracy	500mm[LUE-13LN...] 1000mm[LUE-13LTN...]
Output mode	NPN or PNP open collector
Min detectables	φ1mmOpaque objects above
Response time / frequency	<1ms (action / reset)
Light source	Red LED light (650nm)
Operating voltage	12-24V DC±10%
Protection level	IP66
Outlet method	Lead-in type (2M)
Product application	Transparent object detection, object presence or absence detection of small parts and high-speed moving objects, etc.

M18 Cylindrical photoelectric sensors

LM18 series



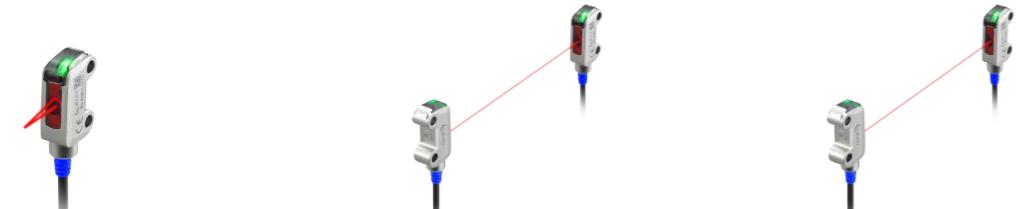
Model	LM18-R10NO/C LM18-R30NO/C
Detection method	Diffuse reflection type
Detection distance	100mmAdjustable[LM18-R10...] 300mmAdjustable[LM18-R30...]
Indicator light	Yellow LED
Output mode	NPN or PNP open collector
Switching mode	Lon (incoming light action)/ D.on (outgoing light action) switchable
Response time / frequency	≤5ms
Light source	Infrared LED (940nm)
Operating voltage	12-24V DC±10%
Protection level	IP67
Sensitivity adjustment	Adjustable
Outlet method	Lead-in type 2M
Product application	Road gate channels, logistics equipment sorting lines, production lines, etc.

Model	LM18-T500NO/C LM18-T1000NO/C LM18-T1500NO/C LM18-T1500PO/C
Detection method	Convective
Detection distance	5mNon-adjustable[LM18-T500...] 10mNon-adjustable[LM18-T1000...] 15mNon-adjustable[LM18-T1500...]
Indicator light	Green LED (transmitter side) / Red LED (receiver side)
Output mode	NPN or PNP open collector
Switching mode	Lon (incoming light action)/ D.on (outgoing light action) switchable
Response time / frequency	≤5ms
Light source	Infrared LED (940nm)
Operating voltage	12-24V DC±10%
Protection level	IP67
Sensitivity adjustment	Adjustable
Outlet method	Lead-in type 2M
Product application	Road gate channels, logistics equipment sorting lines, production lines, etc.

Photoelectric Sensors

Ultra-micro photoelectric sensors

LMX Series



Model	LMX-MB08RN/P
Detection method	Diffuse reflection type
Detection distance	80mm
Detecting object	More than 1mm opaque objects, not affected by the color of the object being detected
Output mode	NPN/PNP collector open circuit
Light spot size	φ3mm/30cm
Response time/frequency	≤1ms
Light source	650nm Visible red light
Indicator light	Red: lighted when output, green: working indicator
Working voltage	12-24V DC±10%
Protection level	IP65
Outlet method	Lead-in type (standard 2M)
Product application	Detecting the presence or absence of objects, PCB circuit board inspection and other workpieces, suitable for a variety of scenes

Model	LMX-M50TN/P
Detection method	Convective
Detection distance	500mm
Detecting object	More than 1mm opaque objects, not affected by the color of the object being detected
Output mode	NPN/PNP collector open circuit
Light spot size	φ3mm/30cm
Response time/frequency	≤1ms
Light source	650nm Visible red light
Indicator light	Red: lighted when output, green: working indicator
Working voltage	12-24V DC±10%
Protection level	IP65
Outlet method	Lead-in type (standard 2M)
Product application	Detecting the presence or absence of objects, PCB circuit board inspection and other workpieces, suitable for a variety of scenes

Model	LMX-M20TN/P
Detection method	Convective
Detection distance	2000mm
Detecting object	More than 1mm opaque objects, not affected by the color of the object being detected
Output mode	NPN/PNP collector open circuit
Light spot size	φ3mm/30cm
Response time/frequency	≤1ms
Light source	850nm Visible red light
Indicator light	Red: lighted when output, green: working indicator
Working voltage	12-24V DC±10%
Protection level	IP65
Outlet method	Lead-in type (standard 2M)
Product application	Detecting the presence or absence of objects, PCB circuit board inspection and other workpieces, suitable for a variety of scenes

Ultra-micro photoelectric sensors

LMG2 series



Model	LMG2-MB03RN/P
Detection method	Diffuse reflective BGS
Detection distance	30mm
Detecting object	1mmOpaque objects above , unaffected by the color of the object being detected
Output mode	NPN/PNP collector open circuit
Light spot size	φ3mm/30cm
Response time / frequency	≤1ms
Light source	650nm Visible red light
Indicator light	Red: Light up when output
Working voltage	12-24V DC±10%
Protection level	IP65
Outlet method	Lead-in type (standard 2M)
Product application	Detecting the presence or absence of objects, PCB circuit board inspection and other workpieces, suitable for a variety of scenes

LMG2-MB12RN/P

Model	LMG2-MJ200N/P
Detection method	Regression reflex type
Detection distance	2500mm
Detecting object	2mmOpaque objects above , Unaffected by the color of the object being detected
Output mode	NPN/PNP collector open circuit
Light spot size	φ3mm/120cm
Response time / frequency	≤1ms
Light source	650nm Visible red light
Indicator light	Red: Light up when output
Working voltage	12-24V DC±10%
Protection level	IP65
Outlet method	Lead-in type (standard 2M)
Product application	Detecting the presence or absence of objects, PCB circuit board inspection and other workpieces, suitable for a variety of scenes

LMG2-MT200N/P

Model	LE-021N/P LE-024N/P LE-025N/P
Light source	650nm red light-emitting diode LED light source
Reaction time	60μs/250μs/500μs/1ms[LE-021...] 50μs/250μs/500μs/1ms[LE-024...] 50μs/250μs/500μs/1ms/4ms/16ms/16μs[LE-025...]
Output selection	Normally open and closed: Light receiving mode (LIGHT-ON) light avoidance mode (DARK-ON)
Detection method	Light intensity (area detection, automatic sensitivity tracking function)
Time delay function	1-9999ms
Control output	Open collector: 24V, output max: 100mA, residual voltage: 1V max
Protection circuit	Power reverse connection protection, output surge/reverse connection/overcurrent/ESD protection
Supply voltage	Between 12-24VDC±10%, volatility(P-P):10% max.
Product features	Between 12-24VDC±10%, volatility(P-P):10% max. ·50us response time ·Four application modes ·With counting, zero migration, anti-light interference, area rising edge falling edge mode, percentage, etc.
Product size	33.86mm(H)×11.2mm(W)×75mm(D)
Product application	Automatic vibration disk counting, medical machinery, production lines, 3C intelligent high-precision precision inspection, PCB/LCD/LED in place detection, lithium battery front and back detection, etc.

Fiber Optical Sensors



Dual digital display fiber optic amplifier

Smart



Dual digital display fiber optic amplifier

Chinese version

LG-031N/P

Red, 4-element light-emitting diode body
F1: 16μs、F2: 19μs、F3: 22μs、F4: 25μs

LIGHT-ON/DARK-ON (short press M and select with +/-)

Light intensity (area detection possible)

1-9999ms
NPN/PNP open collector 24V, 100mA (main part only) 20 mA (Residual voltage when extended parts are connected: 1V)
Power reverse connection protection, output surge/reverse connection/overcurrent/ESD protection

Between 12-24VDC±10%, fluctuation ratio (P-P):10% max. level 2
·Normally open and normally closed switching output
·Chinese screen display
·With background elimination, area mode, anti-interference, delay mode, sensitivity adjustment

30mm(H)×10.8mm(W)×80mm(D)

Automatic vibration disk counting, medical machinery, production lines, 3C intelligent high-precision precision inspection, PCB/LCD/LED in place detection, lithium battery front and back detection, etc.

Fiber optic amplifier

Diffuse reflective laser



Model	LG-LV61N/P
Output method	NPN/PNP
Reaction time	P-0.25us , P-1:100us , P-2:400us , P-3:800us , P-4:3.2ms
Delay time	1-9999ms
Power supply	12-24V DC±10%
Light source	Red, 4-element light-emitting diode body
Detection object	Minimum detection object 0.5 mm
Detection method	Light intensity (area detection available, automatic sensitivity tracking available)
Power consumption	Standard mode: 300mW max. voltage: 24V
Ambient temperature	-10 to 55°C, no freezing
Control output	NPN/PNP open collector 24V
Product application	Automatic vibration disk counting, medical machinery, production lines, 3C intelligent high-precision precision inspection, PCB/LCD/LED in place detection, lithium battery front and back detection, etc.

Fiber optic amplifier

Offset detection



Model	LE-XZ3910 (Fiber optic)
Outer diameter of fiber	LE-031/025(Amplifier)
	1.0mm
Fiber head size	23*39*6.8mm
Calibration accuracy	X-axis ±0.02mm/Y-axis ±0.02mm/Z-axis ±0.01mm
Detection accuracy	0.1mm
Reaction time	Anti OFF: 50us (HIGH SPEED) / 250us (FINE) 1ms (SUPER) / 16ms (MEGA)
Detection method	Light intensity (area detection, automatic sensitivity tracking function)
Supply voltage	12-24V DC±10%
Product features	<ul style="list-style-type: none"> -Switching/analog selectable -Normally open and normally closed switchable, with time delay function -Fastest response time up to 50us -With counting, zero point migration, anti-light interference, Area rising edge falling edge mode, percentage and other functions
Product size	33.86mm(H)*11.2mm(W)*75mm(D)
Product application	Automatic vibration disk counting, medical machinery, production lines, 3C intelligent high-precision precision inspection, PCB/LCD/LED in place detection, lithium battery front and back detection, etc.

Fiber optic amplifier

Through beam laser



Model	LG-LVT61N/P
Output method	NPN/PNP
Reaction time	P-0.25us , P-1:100us , P-2:400us , P-3:800us , P-4:3.2ms
Delay time	1-9999ms
Power supply	12-24V DC±10%
Light source	Red, 4-element light-emitting diode body
Detection object	Minimum detection object 0.5 mm
Detection method	Light intensity (area detection available, automatic sensitivity tracking available)
Power consumption	Standard mode: 300mW max. voltage: 24V
Ambient temperature	-10 to 55°C, no freezing
Control output	NPN/PNP open collector 24V
Product application	Automatic vibration disk counting, medical machinery, production lines, 3C intelligent high-precision precision inspection, PCB/LCD/LED in place detection, lithium battery front and back detection, etc.

Fiber optic components

Diffuse reflection type



Model	LEWY-F1.5
Detection method	Diffuse reflection
Shaft core	Parallel
Core diameter	φ0.5*2
Detection distance	30mm
Dimension	φ1.5
Min bending radius	R10
Product application	Sorting and counting, object presence and absence detection

Model	LEWY-F2.0
Detection method	Diffuse reflection
Shaft core	Parallel
Core diameter	φ0.5*2
Detection distance	50mm
Dimension	φ2.0
Min bending radius	R10
Product application	Sorting and counting, object presence and absence detection

Model	LEWY-F3.0
Detection method	Diffuse reflection
Shaft core	Parallel
Core diameter	φ1.0*2
Detection distance	100mm
Dimension	φ3.0
Min bending radius	R10
Product application	Sorting and counting, object presence and absence detection

Model	LERS-Q310-S15D
Detection method	Diffuse reflection
Shaft core	Parallel
Core diameter	φ0.5*2
Detection distance	20mm
Dimension	φ3.0
Min bending radius	R15
Product application	Sorting and counting, object presence and absence detection

Model	LEWY-F5.0
Detection method	Diffuse reflection
Shaft core	Parallel
Core diameter	φ1.0*2
Detection distance	180mm
Dimension	φ5.0
Min bending radius	R25
Product application	Sorting and counting, object presence and absence detection

Model	LEWY-F5.0S
Detection method	Diffuse reflection
Shaft core	Parallel
Core diameter	φ1.0*2
Detection distance	180mm
Dimension	φ5.0
Min bending radius	R25
Product application	Sorting and counting, object presence and absence detection

Model	LERE-M310
Detection method	Diffuse reflection
Shaft core	Parallel
Core diameter	φ0.25*2
Detection distance	15mm
Dimension	M3
Min bending radius	R15
Product application	Sorting and counting, object presence and absence detection

Model	LERS-M310
Detection method	Diffuse reflection
Shaft core	Parallel
Core diameter	φ0.25*2
Detection distance	50mm
Dimension	M3
Min bending radius	R151
Product application	Sorting and counting, object presence and absence detection

Model	LERC-M310
Detection method	Diffuse reflection
Shaft core	Coaxial
Core diameter	Inside: φ0.5 Outside: φ0.25*9
Detection distance	60mm
Dimension	M3
Min bending radius	R15
Product application	Sorting and counting, object presence and absence detection

Model	LERE-M310TZ
Detection method	Diffuse reflection
Shaft core	Parallel
Core diameter	φ0.25*2
Detection distance	15mm
Dimension	M3
Min bending radius	R10
Product application	Sorting and counting, object presence and absence detection

Model	LERS-M310TZ
Detection method	Diffuse reflection
Shaft core	Parallel
Core diameter	φ0.25*2
Detection distance	50mm
Dimension	M3
Min bending radius	R15
Product application	Sorting and counting, object presence and absence detection

Model	LERC-M310TZ
Detection method	Diffuse

Fiber Optical Sensors

Fiber optic components

Diffuse reflection



Model	LERE-M410
Detection method	Diffuse reflection
Shaft core	Parallel
Core diameter	$\phi 0.25 \times 2$
Detection distance	10mm
Dimension	M4
Min bending radius	R15
Product application	Sorting and counting, object presence and absence detection

Model	LERS-M410
Detection method	Diffuse reflection
Shaft core	Parallel
Core diameter	$\phi 0.5 \times 2$
Detection distance	50mm
Dimension	M4
Min bending radius	R15
Product application	Sorting and counting, object presence and absence detection

Model	LERC-M410
Detection method	Diffuse reflection
Shaft core	Coaxial
Core diameter	Inside: $\phi 0.5$ Outside: $\phi 0.25 \times 9$
Detection distance	60mm
Dimension	M4
Min bending radius	R15
Product application	Sorting and counting, object presence and absence detection

Model	LERS-M410TZ
Detection method	Diffuse reflection
Shaft core	Parallel
Core diameter	$\phi 0.5 \times 2$
Detection distance	50mm
Dimension	M4 (Right Angle)
Min bending radius	R15
Product application	Sorting and counting, object presence and absence detection



Model	LERC-M410T
Detection method	Diffuse reflection
Shaft core	Parallel
Core diameter	Inside: $\phi 0.5$ Outside: $\phi 0.25 \times 9$
Detection distance	60mm
Dimension	M4 (Right Angle)
Min bending radius	R15
Product application	Sorting and counting, object presence and absence detection

Model	LERA-M510
Detection method	Diffuse reflection
Shaft core	Parallel
Core diameter	$\phi 1.0 \times 2$
Detection distance	180mm
Dimension	M5
Min bending radius	R25
Product application	Sorting and counting, object presence and absence detection

Model	LERC-M510
Detection method	Diffuse reflection
Shaft core	Coaxial
Core diameter	Inside: $\phi 1.0$ Outside: $\phi 0.25 \times 16$
Detection distance	140mm
Dimension	M5
Min bending radius	R25
Product application	Sorting and counting, object presence and absence detection

Model	LERA-M610
Detection method	Diffuse reflection
Shaft core	Parallel
Core diameter	$\phi 1.0 \times 2$
Detection distance	180mm
Dimension	M6
Min bending radius	R25
Product application	Sorting and counting, object presence and absence detection



Model	LERS-M610
Detection method	Diffuse reflection
Shaft core	Coaxial
Core diameter	Inside: $\phi 0.5$ Outside: $\phi 0.25 \times 9$
Detection distance	60mm
Dimension	M3
Min bending radius	R15
Product application	Sorting and counting, object presence and absence detection

Model	LERA-M610TZ
Detection method	Diffuse reflection
Shaft core	Parallel
Core diameter	$\phi 1.0 \times 2$
Detection distance	120mm
Dimension	M6 (Right Angle)
Min bending radius	R25
Product application	Sorting and counting, object presence and absence detection

Model	LERC-M610TZ
Detection method	Diffuse reflection
Shaft core	Coaxial
Core diameter	Inside: $\phi 1.0$ Outside: $\phi 0.25 \times 16$
Detection distance	50mm
Dimension	M6 (Right Angle)
Min bending radius	R25
Product application	Sorting and counting, object presence and absence detection

Model	LERC-M610Tzs10
Detection method	Diffuse reflection
Shaft core	Coaxial
Core diameter	Inside: $\phi 1.0$ Outside: $\phi 0.25 \times 16$
Detection distance	140mm
Dimension	M6 (Right Angle)
Min bending radius	R25
Product application	Sorting and counting, object presence and absence detection

Fiber Optical Sensors

Fiber optic components

Diffuse reflection



Model	LERAЕ-41TZ
Detection method	Diffuse reflection
Fiber core size	$\phi 0.5 \times 2$
Detection distance	20mm
Min bending radius	R15
Product application	Suitable for transparent objects with compact space, precision object detection



Model	LERAW-42TZ
Detection method	Diffuse reflection
Fiber core size	$\phi 1.0 \times 2$
Detection distance	50mm
Min bending radius	R25
Product application	Suitable for transparent objects with compact space, precision object detection



Model	LERSW-44TZ
Detection method	Diffuse reflection
Fiber core size	$\phi 0.5 \times 2$
Detection distance	50mm
Min bending radius	R15
Product application	Suitable for transparent objects with compact space, precision object detection



Model	LERSW-47TZ
Detection method	Diffuse reflection
Fiber core size	$\phi 0.5 \times 2$
Detection distance	20mm
Min bending radius	R15

Fiber optic components

Diffuse reflection



Model	LER-10Q	LER-10C	LER-05Q	LER-A25L
Detection method	Diffuse reflection	Diffuse reflection	Diffuse reflection	Diffuse reflection
Fiber core size	φ0.25*16	φ0.25*16	φ0.25*16	φ0.25*32
Detection distance	60mm	60mm	50mm	120mm
Min bending radius	R15	R5	R15	R15
Product application	Area detection, material counting, suitable for irregular object detection	Area detection, material counting, suitable for irregular object detection	Area detection, material counting, suitable for irregular object detection	Area detection, material counting, suitable for irregular object detection



Model	LER-A30L	LER-A35L	LER-A40L	LER-A50L
Detection method	Diffuse reflection	Diffuse reflection	Diffuse reflection	Diffuse reflection
Fiber core size	φ0.25*32	φ0.5*32	φ0.5*32	φ0.25*32
Detection distance	120mm	120mm	120mm	120mm
Min bending radius	R15	R15	R15	R15
Product application	Area detection, material counting, suitable for irregular object detection	Area detection, material counting, suitable for irregular object detection	Area detection, material counting, suitable for irregular object detection	Area detection, material counting, suitable for irregular object detection



Model	LER-A70L	LER-A100L
Detection method	Diffuse reflection	Diffuse reflection
Fiber core size	φ0.25*32	φ0.25*32
Detection distance	120mm	120mm
Min bending radius	R15	R15
Product application	Area detection, material counting, suitable for irregular object detection	Area detection, material counting, suitable for irregular object detection



Fiber optic components

Through beam



Model	LEWY-D2	LEWY-D2S10	LEWY-D3	LEWY-D3S10
Detection method	Opposed fire	Opposed fire	Opposed fire	Opposed fire
Shaft core	Single Axis	Single Axis	Single Axis	Single Axis
Core diameter	φ0.5	φ0.5	φ0.25	φ0.5
Detection distance	260mm	260mm	60mm	260mm
Dimension	φ2.0	φ2.0	φ3.0	φ3.0
Min bending radius	R15	R15	R10	R5
Product application	Sorting and counting, object presence and absence detection	Sorting and counting, object presence and absence detection	Sorting and counting, object presence and absence detection	Sorting and counting, object presence and absence detection



Model	LEWY-D5	LEWY-D5S10	LETE-M310	LETS-M310
Detection method	Opposed fire	Opposed fire	Opposed fire	Opposed fire
Shaft core	Single Axis	Single Axis	Single Axis	Single Axis
Core diameter	φ1.0	φ1.0	φ0.25	φ0.5
Detection distance	600mm	500mm	60mm	260mm
Dimension	φ5.0	φ5.0	M3	M3
Min bending radius	R10	R10	R15	R15
Product application	Sorting and counting, object presence and absence detection	Sorting and counting, object presence and absence detection	Sorting and counting, object presence and absence detection	Sorting and counting, object presence and absence detection



Model	LETA-M310	LETS-M310TZ	LETA-M310TZ	LETG-M310TZ
Detection method	Opposed fire	Opposed fire	Opposed fire	Opposed fire
Shaft core	Single Axis	Parallel	Parallel	Coaxial
Core diameter	φ1.0	φ0.5	φ1.0	φ0.25*16
Detection distance	1000mm	200mm	400mm	600mm
Dimension	M3	M3 (Right Angle)	M3 (Right Angle)	M3 (Right Angle)
Min bending radius	R25	R15	R5	R15
Product application	Sorting and counting, object presence and absence detection	Sorting and counting, object presence and absence detection	Sorting and counting, object presence and absence detection	Sorting and counting, object presence and absence detection



Model	LETA-M310	LETS-M310TZ	LETA-M310TZ	LETG-M310TZ
Detection method	Opposed fire	Opposed fire	Opposed fire	Opposed fire
Shaft core	Single Axis	Parallel	Parallel	Coaxial
Core diameter	φ1.0	φ0.5	φ1.0	φ0.25*16
Detection distance	1000mm	200mm	400mm	600mm
Dimension	M3	M3 (Right Angle)	M3 (Right Angle)	M3 (Right Angle)
Min bending radius	R25	R15	R5	R15
Product application	Sorting and counting, object presence and absence detection	Sorting and counting, object presence and absence detection	Sorting and counting, object presence and absence detection	Sorting and counting, object presence and absence detection

Fiber optic components

Through beam



Model	LETE-M410
Detection method	Opposed fire
Shaft core	Single Axis
Core diameter	$\phi 0.25$
Detection distance	60mm
Dimension	M4
Min bending radius	R10
Product application	Sorting and counting, object presence and absence detection

Model	LETS-M410
Detection method	Opposed fire
Shaft core	Single Axis
Core diameter	$\phi 0.5$
Detection distance	260mm
Dimension	M4
Min bending radius	R15
Product application	Sorting and counting, object presence and absence detection

Model	LETA-M410
Detection method	Opposed fire
Shaft core	Single Axis
Core diameter	$\phi 1.0$
Detection distance	1000mm
Dimension	M4
Min bending radius	R25
Product application	Sorting and counting, object presence and absence detection

Model	LETS-M410TZ
Detection method	Opposed fire
Shaft core	Parallel
Core diameter	$\phi 0.5$
Detection distance	200mm
Dimension	M4 (Right Angle)
Min bending radius	R15
Product application	Sorting and counting, object presence and absence detection



Model	LETA-M410TZ
Detection method	Opposed fire
Shaft core	Parallel
Core diameter	$\phi 1.0$
Detection distance	400mm
Dimension	M4 (Right Angle)
Min bending radius	R5
Product application	Sorting and counting, object presence and absence detection

Model	LET-C-M410TZ
Detection method	Opposed fire
Shaft core	Coaxial
Core diameter	$\phi 0.25*16$
Detection distance	500mm
Dimension	M4 (Right Angle)
Min bending radius	R15
Product application	Sorting and counting, object presence and absence detection

Model	LETA-M510
Detection method	Opposed fire
Shaft core	Single Axis
Core diameter	$\phi 1.0$
Detection distance	1000mm
Dimension	M5
Min bending radius	R25
Product application	Sorting and counting, object presence and absence detection

Model	LETA-M610
Detection method	Opposed fire
Shaft core	Single Axis
Core diameter	$\phi 1.0$
Detection distance	1000mm
Dimension	M6
Min bending radius	R25
Product application	Sorting and counting, object presence and absence detection



Model	LETA-M610TZ
Detection method	Opposed fire
Shaft core	Parallel
Core diameter	$\phi 1.0$
Detection distance	400mm
Dimension	M6
Min bending radius	R5
Product application	Sorting and counting, object presence and absence detection

Model	LET-C-M610TZ
Detection method	Opposed fire
Shaft core	Coaxial
Core diameter	$\phi 0.25*16$
Detection distance	600mm
Dimension	M6
Min bending radius	R15
Product application	Sorting and counting, object presence and absence detection

Model	LETS-Q210-S15D
Detection method	Contrast (side exit light)
Shaft core	Single Axis
Core diameter	$\phi 0.5$
Detection distance	50mm
Dimension	M6
Min bending radius	R15
Product application	Sorting and counting, object presence and absence detection

Model	LETS-Q310-S10D
Detection method	Contrast (side exit light)
Shaft core	Single Axis
Core diameter	$\phi 0.5$
Detection distance	50mm
Dimension	M6
Min bending radius	R15
Product application	Sorting and counting, object presence and absence detection

Fiber optic components

Through beam



Model	LETA-51TZ
Detection method	Opposed fire
Fiber core size	$\phi 0.5$
Detection distance	260mm
Min bending radius	R15
Product application	Area detection, material counting, suitable for irregular object detection

Model	LETAW-52TZ
Detection method	Opposed fire
Fiber core size	$\phi 1.0$
Detection distance	1000mm
Min bending radius	R25
Product application	Area detection, material counting, suitable for irregular object detection

Model	LETAW-53TZ
Detection method	Opposed fire
Fiber core size	$\phi 0.5$
Detection distance	80mm
Min bending radius	R15
Product application	Area detection, material counting, suitable for irregular object detection

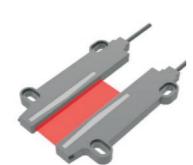
Model	LETAW-54TZ
Detection method	Opposed fire
Fiber core size	$\phi 1.0$
Detection distance	300mm
Min bending radius	R25
Product application	Area detection, material counting, suitable for irregular object detection

Fiber optic components

Through beam



Model	LET-A20C	LET-A05S	LET-A10S	LET-E11
Detection method	Opposed fire	Opposed fire	Opposed fire	Opposed fire
Fiber core size	$\phi 0.25 \times 16$			
Detection distance	500mm	500mm	500mm	1000mm
Min bending radius	R15	R25	R25	R15
Product application	Area detection, material counting, suitable for irregular object detection	Area detection, material counting, suitable for irregular object detection	Area detection, material counting, suitable for irregular object detection	Area detection, material counting, suitable for irregular object detection



Model	LET-E40	LET-A25L	LET-A30L	LET-A35L
Detection method	Opposed fire	Opposed fire	Opposed fire	Opposed fire
Fiber core size	$\phi 1.0$	$\phi 0.25 \times 32$	$\phi 0.25 \times 32$	$\phi 0.25 \times 32$
Detection distance	1000mm	500mm	500mm	500mm
Min bending radius	R15	R25	R25	R25
Product application	Area detection, material counting, suitable for irregular object detection	Area detection, material counting, suitable for irregular object detection	Area detection, material counting, suitable for irregular object detection	Area detection, material counting, suitable for irregular object detection



Model	LET-A40L	LET-A50L	LET-A70L	LET-A100L
Detection method	Opposed fire	Opposed fire	Opposed fire	Opposed fire
Fiber core size	$\phi 0.25 \times 32$			
Detection distance	500mm	500mm	500mm	500mm
Min bending radius	R25	R25	R25	R25
Product application	Area detection, material counting, suitable for irregular object detection	Area detection, material counting, suitable for irregular object detection	Area detection, material counting, suitable for irregular object detection	Area detection, material counting, suitable for irregular object detection



Fiber optic components

Diffuse reflection-resistance medium to high temperature



Model	LER-H31Y	LER-H41Y	LER-H61Y	LER-H31E
Detection method	Diffuse reflection	Diffuse reflection	Diffuse reflection	Diffuse reflection
Shaft core	Parallel	Parallel	Parallel	Coaxial
Core diameter	$\phi 0.5 \times 2$	$\phi 0.5 \times 2$	$\phi 1.0 \times 2$	$\phi 0.5 \times 2$
Detection distance	50mm	50mm	180mm	50mm
Dimension	M3	M4	M6	M3
Min bending radius	R15	R15	R15	R25
Operating temperature	-50 — 125	-50 — 125	-50 — 125	-40 — 200
Product application	Sorting counting, object presence detection			



Model	LER-H41E	LER-H61E	LER-H31S	LER-H41S
Detection method	Diffuse reflection	Diffuse reflection	Diffuse reflection	Diffuse reflection
Shaft core	Coaxial	Coaxial	Coaxial	Coaxial
Core diameter	$\phi 0.5 \times 2$	$\phi 1.0 \times 2$	$\phi 0.5 \times 2$	$\phi 0.5 \times 2$
Detection distance	50mm	150mm	150mm	50mm
Dimension	M4	M6	M3	M4
Min bending radius	R25	R25	R25	R25
Operating temperature	-40 — 200	-40 — 200	-50 — 350	-50 — 350
Product application	Sorting counting, object presence detection			



Model	LER-H61S	LER-H31STZ	LER-H41STZ	LER-H11S-10
Detection method	Diffuse reflection	Diffuse reflection	Diffuse reflection	Diffuse reflection
Shaft core	Coaxial	Parallel	Parallel	Parallel
Core diameter	$\phi 1.0 \times 2$	$\phi 5.9$	$\phi 1.0$	$\phi 1.5$
Detection distance	150mm	50mm	400mm	-
Dimension	M6	M3 (Right Angle)	M4 (Right Angle)	-
Min bending radius	R25	R25	R5	R25
Operating temperature	-50 — 350	-50 — 350	-50 — 350	-50 — 350
Product application	Sorting counting, object presence detection			



Fiber Optical Sensors

Fiber optic components

Convective-resistance medium to high temperature



Model	LET-H31Y	LET-H41Y	LET-H31E	LET-H41E
Detection method	Opposed fire	Opposed fire	Opposed fire	Opposed fire
Shaft core	Parallel	Parallel	Coaxial	Coaxial
Core diameter	φ1.0	φ1.0	φ1.0	φ1.0
Detection distance	1000mm	1000mm	1000mm	1000mm
Dimension	M3	M4	M3	M4
Min bending radius	R25	R25	R25	R25
Operating temperature	-50 — 125	-50 — 125	-50 — 200	-50 — 200
Product application	Sorting counting, object presence detection			



Model	LET-H31S	LET-H41S	LET-H31STZ	LET-H41STZ
Detection method	Opposed fire	Opposed fire	Opposed fire	Opposed fire
Shaft core	Coaxial	Coaxial	Parallel	Parallel
Core diameter	φ1.0	φ1.0	φ5.9	φ5.9
Detection distance	1000mm	1000mm	1000mm	1000mm
Dimension	M3	M4	M3	M4
Min bending radius	R25	R25	R25	R25
Operating temperature	-50 — 350	-50 — 350	-50 — 350	-50 — 350
Product application	Sorting counting, object presence detection			



Model	LET-H11S-10	LER-H31STZ	LER-H41STZ	LER-H11S-10
Detection method	Opposed fire	Opposed fire	Opposed fire	Opposed fire
Shaft core	Parallel	-	-	-
Core diameter	φ1.0	φ1.0	φ1.0	φ1.0
Detection distance	650mm	1000mm	1000mm	1000mm
Dimension	-	M3	M4	M6
Min bending radius	R25	R25	R25	R25
Operating temperature	-50 — 350	-50 — 350	-50 — 350	-50 — 350
Product application	Sorting counting, object presence detection			

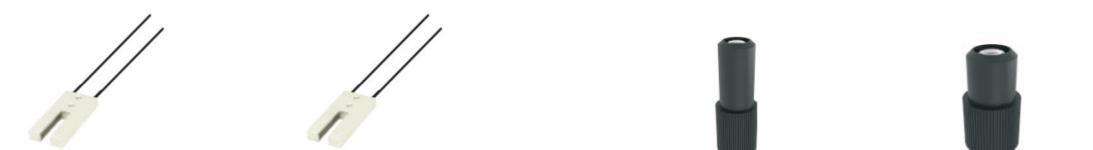
Fiber Optical Sensors

Fiber optic components

Special optical fiber and focus mirror



Model	LER-95W	LEU-1220	LEU-1220C-05	LEU-1230
Detection method	Diffuse reflection	Single point slot type	Regional slot type	Single point slot type
Fiber core size	φ0.25*16	φ0.5*2	φ0.265*16	φ0.5*2
Detection distance	20mm	12mm	12mm	12mm
Min bending radius	R25	R15	R25	R15
Product application	Area detection, material counting, suitable for irregular object detection	Area detection, material counting, suitable for irregular object detection	Area detection, material counting, suitable for irregular object detection	Area detection, material counting, suitable for irregular object detection



Model	LEU-0520	LEU-0520C-05	Model	L-K2	L-K3
Detection method	Single point slot type	Regional slot type	Spotlight	φ0.5	φ4.0
Fiber core size	φ0.5*2	φ0.265*16	Applicable optical fiber	M3Threaded type	M3Threaded type
Detection distance	5mm	5mm	Detection distance	10mm	20mm
Min bending radius	R15	R15	Working temperature	-50 — 350	-50 — 350
Product application	Area detection, material counting, suitable for irregular object detection	Area detection, material counting, suitable for irregular object detection	Product application	Small spot detection, tiny object detection, presence and absence as well as positioning detection	Small spot detection, tiny object detection, presence and absence as well as positioning detection



Model	L-K4	L-K8	Model	LFC-5H	LFT-5H
Detection method	φ0.5	φ8.0	Spotlight	φ1.0-3.0	φ8.0
Fiber core size	M3Threaded type	M2.6Threaded type	Applicable optical fiber	M3Threaded type	M4Threaded type
Detection distance	20mm	1500mm	Detection distance	30mm	1500mm
Operating temperature	-50 — 350	-50 — 350	Working temperature	-50 — 350	-50 — 350
Product application	Small spot detection, tiny object detection, presence and absence as well as positioning detection	Small spot detection, tiny object detection, presence and absence as well as positioning detection	Product application	Small spot detection, tiny object detection, presence and absence as well as positioning detection	Small spot detection, tiny object detection, presence and absence as well as positioning detection





Laser sensor Square



Model	LQD61-R30N/P	LQD61-F800N/P	LQD61-T3000N/P ^{HOT!}
Detection method	Diffuse reflection type	Regressive Reflex Type	Convective
Detection distance	30-300mm (Adjustable)	8m (Adjustable)	30m
Output mode	NPN or PNP open collector, < 100mA(30VDC)	NPN or PNP open collector, < 100mA(30VDC)	NPN or PNP open collector, < 100mA(30VDC)
Response time	≤5ms	≤5ms	≤5ms
Light source	Laser Diode (650nm)	Laser Diode (650nm)	Laser Diode (650nm)
Spot size	3mm±10%	3-10mm(Varies with distance)	3-10mm(Varies with distance)
Sensitivity adjustment	Single-turn regulator	Single-turn regulator	-
Outlet mode	Lead-out type, 2m-3 core cable	Lead-out type, 2m-3 core cable	Lead-out type, 2m-3 core cable
Protection level	IP65	IP65	IP65
Switching mode	Lon/D.on switchable	Lon/D.on switchable	Lon/D.on switchable
Operating voltage	10-30VDC	10-30VDC	10-30VDC
Product application	Long-range ultra-thin object positioning and detection of the presence or absence of objects	Long-range ultra-thin object positioning and detection of the presence or absence of objects	Long-range ultra-thin object positioning and detection of the presence or absence of objects

Laser sensor Background suppression


Model
LQB61-T300N/P^{HOT!}

Diffuse reflection (With background suppression)

10-300mm

3mm±10%

±5% (At a distance of 300mm)

NPN or PNP open collector, < 100mA(30VDC)

≤3ms

Semiconductor laser diodes (655nm)

Multi-turn regulator

Lead-out type, 2m-4 core cable

IP65

Lon/D.on switchable

12-24VDC fluctuation (P-P) 10% or less

Small spot positioning detection, long-range small object presence or absence detection, suitable for a variety of colors in complex scenes

LQD61-R30N/P

Diffuse reflection type

300mm (Adjustable)

3mm±10%

±3% (Distance 160mm)

NPN or PNP open collector, < 100mA(30VDC)

≤0.5ms

Semiconductor laser diodes (655nm)

Multi-turn positioner

2M 4 core cable

IP65

Lon/D.on switchable

12-24VDC±10%

Small spot positioning detection, detection of small objects at a distance with or without

Laser Sensors

Laser sensors

Background suppression



Model	LQB61-T300N/P HOT!
Detection method	Diffuse reflection (with background suppression)
Detection distance	10-300mm
Spot size	3mm±10%
Black and white error	±5% (At a distance of 300mm)
Output mode	NPN or PNP open collector, < 100mA(30VDC)
Response time	≤3ms
Light source	Semiconductor laser diodes (655nm)
Sensitivity adjustment	Multi-turn regulator
Outlet mode	Lead-out type, 2m-4 core cable
Protection level	IP65
Switching mode	On/Off switchable
Operating voltage	12-24VDC 波动 (P-P) 10%以下
Product application	Small spot positioning detection, long-range small object presence or absence detection, suitable for a variety of colors in complex scenes

Model	LQD61-R30N/P
Detection method	Diffuse reflection type
Detection distance	300mm (Adjustable)
Spot size	3mm±10%
Black and white error	±3% (Distance 160mm)
Output mode	NPN or PNP open collector, < 100mA(30VDC)
Response time	≤0.5ms
Light source	Semiconductor laser diodes (655nm)
Sensitivity adjustment	Multi-turn positioner
Outlet mode	2M 4 core cable
Protection level	IP65
Switching mode	On/Off switchable
Operating voltage	12-24VDC±10%
Product application	Small spot positioning detection, detection of small objects at a distance with or without

Laser Sensors

Laser sensors

Right angle



Laser sensors

Cylindrical diffuse reflection



Model	LQD3-R3NO/NC NEW!
Detection method	Diffuse reflection type
Size	M3×20mm
Light spot size	2mmSmall light point
Detection distance	30mmAdjustable[LQD3-R3...] 40mmAdjustable[LQD3-R4...]
Operating voltage	10-30V DC
Switching frequency	100Hz
Light source	Visible red light (660nm)
Response time	5ms
Protection level	IP65
Output mode	NPN or PNP open collector
Product application	PCB board inspection, object presence or absence detection, etc.

Model	LQD4-R5NO/NC
Detection method	Diffuse reflection type
Size	M4×20mm
Light spot size	2mmSmall light point
Detection distance	50mmAdjustable[LQD4-R5...] 70mmAdjustable[LQD4-R7...]
Operating voltage	10-30V DC
Switching frequency	100Hz
Light source	Visible red light (660nm)
Response time	5ms
Protection level	IP65
Output mode	NPN or PNP open collector
Product application	PCB board inspection, object presence or absence detection, etc.

Model	LQD5-R10NO/NC
Detection method	Diffuse reflection type
Size	M5×24mm
Light spot size	2mmSmall light point
Detection distance	100mmAdjustable[LQD5-R5...] 130mmAdjustable[LQD5-R7...]
Operating voltage	10-30V DC
Switching frequency	100Hz
Light source	Visible red light (660nm)
Response time	5ms
Protection level	IP65
Output mode	NPN or PNP open collector
Product application	PCB board inspection, object presence or absence detection, etc.

Model	LQD6-R15NO/NC
Detection method	Diffuse reflection type
Size	M6×25mm
Light spot size	2-3mmSmall light point
Detection distance	150mmAdjustable[LQD6-R15...] 200mmAdjustable[LQD6-R20...]
Operating voltage	10-30V DC
Switching frequency	100Hz
Light source	Visible red light (660nm)
Response time	5ms
Protection level	IP65
Output mode	NPN or PNP open collector
Product application	PCB board inspection, object presence or absence detection, etc.

Laser sensors

Cylindrical diffuse reflection



Model	LQD8-R15NO/NC
Detection method	Diffuse reflection type
Size	M8×25mm
Light spot size	2-3mmSmall light point
Detection distance	150mmAdjustable[LQD8-R15...] 200mmAdjustable[LQD8-R20...] 200mmAdjustable[LQD12-R20...] 300mmAdjustable[LQD12-R30...]
Operating voltage	10-30V DC
Switching frequency	100Hz
Light source	Visible red light (660nm)
Response time	5ms
Protection level	IP65
Output mode	NPN or PNP open collector
Product application	PCB board inspection, object presence or absence detection, etc.

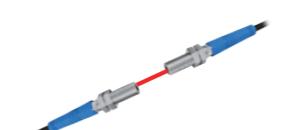
Model	LQD12-R20NO/NC
Detection method	Diffuse reflection type
Size	M12×62mm
Light spot size	2-3mmSmall light point
Detection distance	200mmAdjustable[LQD12-R20...] 300mmAdjustable[LQD12-R30...]
Operating voltage	10-30V DC
Switching frequency	100Hz
Light source	Visible red light (660nm)
Response time	5ms
Protection level	IP65
Output mode	NPN or PNP open collector
Product application	PCB board inspection, object presence or absence detection, etc.

Model	LQD18-R30NO/NC
Detection method	Diffuse reflection type
Size	M18×62mm
Light spot size	2-3mmSmall light point
Detection distance	200mmAdjustable[LQD18-R30...]
Operating voltage	10-30V DC
Switching frequency	100Hz
Light source	Visible red light (660nm)
Response time	5ms
Protection level	IP65
Output mode	NPN or PNP open collector
Product application	PCB board inspection, object presence or absence detection, etc.

Laser Sensors

Laser sensors

Cylindrical through beam



Model	LQT4-R200NO/NC <small>NEW!</small> LQT4-R200PO/PC	LQT5-R200NO/NC LQT5-R200PO/PC	LQT6-R200NO/NC LQT6-R200PO/PC
Detection method	Convective	Convective	Convective
Size	M4*20mm	M5*24mm	M6*26mm
Light spot size	2mmSmall light	2mmSmall light point	2mmSmall light point
Detecting distance	point20m	20m	20m
Operating voltage	10-30V DC	10-30V DC	10-30V DC
Switching frequency	100Hz	100Hz	100Hz
Light source	Visible red light (660nm)	Visible red light (660nm)	Visible red light (660nm)
Response time	5ms	5ms	5ms
Protection level	IP65	IP65	IP65
Output mode	NPN or PNP open collector	NPN or PNP open collector	NPN or PNP open collector
Product application	PCB board inspection, object presence or absence detection, etc.	PCB board inspection, object presence or absence detection, etc.	PCB board inspection, object presence or absence detection, etc.

Model	LQT8-R200NO/NC LQT8-R200PO/PC	LQT12-R500NO/NC LQT12-R500PO/PC	LQT18-R500NO/NC LQT18-R500PO/PC
Detection method	Convective	Convective	Convective
Size	M8*45mm	M12*55mm	M18*52mm
Light spot size	2mmSmall light point	2-3mmSmall light point	2-3mmSmall light point
Detecting distance	20m	50m	50m
Operating voltage	10-30V DC	10-30V DC	10-30V DC
Switching frequency	100Hz	100Hz	100Hz
Light source	Visible red light (660nm)	Visible red light (660nm)	Visible red light (660nm)
Response time	5ms	5ms	5ms
Protection level	IP65	IP65	IP65
Output mode	NPN or PNP open collector	NPN or PNP open collector	NPN or PNP open collector
Product application	Gate protection detection, glass detection, PCB board detection, etc., object presence or absence detection, applicable to a variety of scenes	Gate protection detection, glass detection, PCB board detection, etc., object presence or absence detection, applicable to a variety of scenes	Gate protection detection, glass detection, PCB board detection, etc., object presence or absence detection, applicable to a variety of scenes

Laser sensors

Cylindrical through beam



Model	LQT4-R200NO/NC <small>NEW!</small> LQT4-R200PO/PC	LQT5-R200NO/NC LQT5-R200PO/PC	LQT6-R200NO/NC LQT6-R200PO/PC
Detection method	Convective	Convective	Convective
Size	M8*45mm	M12*55mm	M18*52mm
Light spot size	2mmSmall light point	2-3mmSmall light point	2-3mmSmall light point
Detecting distance	20m	50m	50m
Operating voltage	10-30V DC	10-30V DC	10-30V DC
Switching frequency	100Hz	100Hz	100Hz
Light source	Visible red light (660nm)	Visible red light (660nm)	Visible red light (660nm)
Response time	5ms	5ms	5ms
Protection level	IP65	IP65	IP65
Output mode	NPN or PNP open collector	NPN or PNP open collector	NPN or PNP open collector
Product application	Gate protection detection, glass detection, PCB board detection, etc., object presence or absence detection, applicable to a variety of scenes	Gate protection detection, glass detection, PCB board detection, etc., object presence or absence detection, applicable to a variety of scenes	Gate protection detection, glass detection, PCB board detection, etc., object presence or absence detection, applicable to a variety of scenes

Laser Sensors

Laser sensors

Long distance (background suppression)



Model	LQB61-R100NA/PA <small>NEW!</small>
Detection mode	Reflective laser background suppression
Switching mode	L.on/D.on switchable
Light spot size	3mm±10%
Detection distance	10-1000mmAdjustable
Working voltage	12-24V DC
Response time	≤3ms
Light source	Semiconductor laser diode (655nm)
Outlet mode	Lead-in type (standard 2M)
Protection level	IP65
Output mode	NPN or PNP open collector
Product application	PCB circuit board inspection, electronic parts positioning and object presence detection, etc.

Laser sensors

Laser one-click setting



Model	LQ-R20NA/PA
Detection mode	Diffuse reflection - with background suppression
Switching mode	L.on/D.on switchable
Light spot size	3mm±10%
Detection distance	30-200mm
Working voltage	12-24V DC±10% Fluctuation (P-P) 10% or less
Response time	≤0.5ms
Light source	Semiconductor laser diode (655nm)
Outlet mode	Conductor lead-out type 2m-4 core cable
Protection level	IP65
Output mode	NPN or PNP open collector, <100mA (30VDC)
Product application	Micro-hole detection, gap detection, detection of different materials in the same plane, detection of small workpieces, etc.



Inductive proximity sensors Ultra small



Model	LJ03M-E0.6N/N2-2M LJ03M-E0.6P/P2-2M LJ03M-E0.8N/N2-2M LJ03M-E0.8P/P2-2M LJ03M-E1N/N2-2M LJ03M-E1P/P2-2M	LJ04M-E0.8N/N2-2M LJ04M-E0.8P/P2-2M LJ04M-E1N/N2-2M LJ04M-E1P/P2-2M LJ04M-E1.2N/N2-2M LJ04M-E1.2P/P2-2M	LJ04M-E0.6N/N2-2M LJ04M-E0.6P/P2-2M LJ04M-E0.8N/N2-2M LJ04M-E0.8P/P2-2M LJ04M-E1N/N2-2M LJ04M-E1.2P/P2-2M	LJ05M-E1N/N2-2M LJ05M-E1P/P2-2M LJ05M-E1.2N/N2-2M LJ05M-E1.2P/P2-2M LJ05M-E1N/N2-2M LJ05M-E1.5N/N2-2M LJ05M-E1P/P2-2M
Mounting method	Buried	Buried	Buried	Buried
Size	φ3×25mm	φ4×25mm	M4×25mm	M5×25mm
Detection distance	0.6mm±10%[LJ03M-E0.6...] 0.8mm±10%[LJ03M-E0.8...] 1.0mm±10%[LJ03M-E1...]	0.8mm±10%[LJ04M-E0.8...] 1.0mm±10%[LJ04M-E1...] 1.2mm±10%[LJ04M-E1.2...]	0.6mm±10%[LJ4M-E0.8...] 0.8mm±10%[LJ4M-E0.8...] 1.0mm±10%[LJ4M-E1...]	1.0mm±10%[LJ5M-E1...] 1.2mm±10%[LJ5M-E1.2...] 1.5mm±10%[LJ5M-E1.5...]
Housing material	Stainless Steel	Stainless steel	Stainless steel	Stainless steel
Sensing surface material	Epoxy	PA66	Epoxy	PA66
Working voltage	10-30V DC	10-30V DC	10-30V DC	10-30V DC
Switching frequency	2KHz[LJ03M-E0.6...] 2KHz[LJ03M-E0.8...] 1KHz[LJ03M-E1...]	2KHz[LJ04M-E0.8...] 2KHz[LJ04M-E1...] 2KHz[LJ04M-E1.2...]	2KHz[LJ04M-E0.6...] 2KHz[LJ04M-E0.8...] 1KHz[LJ04M-E1.2...]	2KHz[LJ05M-E1...] 2KHz[LJ05M-E1.2...] 1KHz[LJ05M-E1.5...]
Repetition accuracy	< 3.0%(Sr)[LJ03M-E0.6...] < 3.0%(Sr)[LJ03M-E0.8...] < 5.0%(Sr)[LJ03M-E1...]	< 3.0%(Sr)[LJ04M-E0.8...] < 3.0%(Sr)[LJ04M-E1...] < 5.0%(Sr)[LJ04M-E1.2...]	< 3.0%(Sr)[LJ04M-E0.6...] < 3.0%(Sr)[LJ04M-E0.8...] < 5.0%(Sr)[LJ04M-E1...]	< 3.0%(Sr)[LJ05M-E1...] < 3.0%(Sr)[LJ05M-E1.2...] < 5.0%(Sr)[LJ05M-E1.5...]
Protection level	IP67	IP67	IP67	IP67
Product application	Limit, counting, metal presence or absence detection			
Model description	N : PNP Normallyclosed N2 : PNP Alwayson	P : PNP Normallyclosed P2 : PNP Alwayson	N : PNP Normallyclosed N2 : PNP Alwayson	P : PNP Normallyclosed P2 : PNP Alwayson

Inductive proximity sensors Ultra small



Model	LJ06M-E1N /N2-2M LJ06M-E1P/P2-2M LJ06M-E1.2N/N2-2M LJ06M-E1.2P/P2-2M LJ06M-E1.5N/N2-2M LJ06M-E1.5P/P2-2M	LJ03M-D0.6N/N2-2M LJ03M-D0.6P/P2-2M LJ03M-D0.8N/N2-2M LJ03M-D0.8P/P2-2M LJ03M-D1N/N2-2M LJ03M-D1P/P2-2M	LJ04M-D0.8N/N2-2M LJ04M-D0.8P/P2-2M LJ04M-D1N/N2-2M LJ04M-D1P/P2-2M LJ04M-D1.2N/N2-2M LJ04M-D1.2P/P2-2M LJ04M-D1.5N/N2-2M LJ04M-D1.5P/P2-2M
Mounting method	Buried	Buried	Buried
Size	M6×30mm	φ3×15mm	φ4×15mm
Detection distance	1.0mm±10%[LJ06M-E1...] 1.2mm±10%[LJ06M-E1.2...] 1.5mm±10%[LJ06M-E1.5...]	0.6mm±10%[LJ03M-D0.6...] 0.8mm±10%[LJ03M-D0.8...] 1.0mm±10%[LJ03M-D1...]	0.8mm±10%[LJ04M-D0.8...] 1.0mm±10%[LJ04M-D1...] 1.2mm±10%[LJ04M-D1.2...] 1.5mm±10%[LJ04M-D1.5...]
Housing material	Stainless steel	Stainless steel	Stainless steel
Sensing surface material	PA66	PA66	PA66
Working voltage	10-30V DC	10-30V DC	10-30V DC
Switching frequency	2KHz[LJ06M-E1...] 2KHz[LJ06M-E1.2...] 1KHz[LJ06M-E1.5...]	2KHz[LJ03M-D0.6...] 2KHz[LJ03M-D0.8...] 1KHz[LJ03M-D1...]	2KHz[LJ04M-D0.8...] 2KHz[LJ04M-D1...] 2KHz[LJ04M-D1.2...] 1KHz[LJ04M-D1.5...]
Repetition accuracy	< 3.0%(Sr)[LJ06M-E1...] < 3.0%(Sr)[LJ06M-E1.2...] < 5.0%(Sr)[LJ06M-E1.5...]	< 3.0%(Sr)[LJ03M-D0.6...] < 3.0%(Sr)[LJ03M-D0.8...] < 5.0%(Sr)[LJ03M-D1...]	< 3.0%(Sr)[LJ04M-D0.8...] < 3.0%(Sr)[LJ04M-D1...] < 5.0%(Sr)[LJ04M-D1.2...] < 5.0%(Sr)[LJ04M-D1.5...]
Protection level	IP67	IP67	IP67
Product application	Limit, counting, metal presence or absence detection	Limit, counting, metal presence or absence detection	Limit, counting, metal presence or absence detection
Model description	N : PNP Normallyclosed N2 : PNP Alwayson	P : PNP Normallyclosed P2 : PNP Alwayson	N : PNP Normallyclosed N2 : PNP Alwayson

Proximity Sensors

Inductive proximity sensors

Ultra short

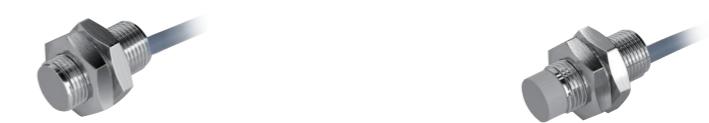


Model	LJ6.5M-D1N/N2-2M LJ6.5M-D1P/P2-2M LJ6.5M-D2N/N2-2M LJ6.5M-D2P/P2-2M	LJ6.5M-Y1N/N2-2M LJ6.5M-Y1P/P2-2M LJ6.5M-Y2N/N2-2M LJ6.5M-Y2P/P2-2M	LJ8M-Y1N/N2-2M LJ8M-Y1P/P2-2M LJ8M-Y2N/N2-2M LJ8M-Y2P/P2-2M	LJ5M-D0.8N/N2-2M LJ5M-D0.8P/P2-2M LJ5M-D1N/N2-2M LJ5M-D1P/P2-2M LJ5M-D1.2N/N2-2M LJ5M-D1.2P/P2-2M LJ5M-D1.5N/N2-2M LJ5M-D1.5P/P2-2M
Mounting method	Buried	Buried (side outlet)	Buried (side outlet)	Buried
Size	φ6.5×18mm	φ6.5×18mm	M8×18mm	M5×15mm
Detection distance	1mm±10%[LJ6.5M-D1...] 2mm±10%[LJ6.5M-D2...]	1mm±10%[LJ6.5M-Y1...] 2mm±10%[LJ6.5M-Y2...]	1mm±10%[LJ8M-Y1...] 2mm±10%[LJ8M-Y2...]	0.8mm±10%[LJ5M-D0.8...] 1.0mm±10%[LJ5M-D1...] 1.2mm±10%[LJ5M-D1.2...] 1.5mm±10%[LJ5M-D1.5...]
Housing material	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Sensing surface material	PA66	PA66	PA66	PA66
Working voltage	10-30V DC	10-30V DC	10-30V DC	10-30V DC
Switching frequency	2KHz[LJ6.5M-D1...] 1KHz[LJ6.5M-D2...]	2KHz[LJ6.5M-Y1...] 1KHz[LJ6.5M-Y2...]	2KHz[LJ8M-Y1...] 1KHz[LJ8M-Y2...]	2KHz[LJ5M-D0.8...] 2KHz[LJ5M-D1...] 2KHz[LJ5M-D1.2...] 2KHz[LJ5M-D1.5...]
Repetition accuracy	< 3.0%(Sr)	< 3.0%(Sr)	< 3.0%(Sr)[LJ8M-Y1...] < 5.0%(Sr)[LJ8M-Y2...]	< 3.0%(Sr)[LJ5M-D0.8...] < 3.0%(Sr)[LJ5M-D1...] < 3.0%(Sr)[LJ5M-D1.2...] < 5.0%(Sr)[LJ5M-D1.5...]
Protection level	IP67	IP67	IP67	IP67
Product application	Limit, counting, metal presence or absence detection	Limit, counting, metal presence or absence detection	Limit, counting, metal presence or absence detection	Limit, counting, metal presence or absence detection
Model description	N : NPN Normallyclosed N2 : NPN Alwayson	N : NPN Normallyclosed N2 : NPN Alwayson		

Proximity Sensors

Inductive proximity sensors

Ultra short



Model	LJ12M-D2N/N2-2M LJ12M-D2P/P2-2M LJ12M-D4N/N2-2M LJ12M-D4P/P2-2M	Mounting method	Buried
Size	M12×22mm	Detection distance	2mm±10%[LJ12M-D2...] 4mm±10%[LJ12M-D4...]
Housing material	Stainless steel	Sensing surface material	PBT
Working voltage	10-30V DC	Working voltage	10-30V DC
Switching frequency	2KHz[LJ12M-D2...] 1KHz[LJ12M-D4...]	Switching frequency	2KHz 1KHz
Repetition accuracy	< 3.0%(Sr)	Repetition accuracy	< 5.0%(Sr)
Protection level	IP67	Protection level	IP67
Product application	Limit, counting, metal presence or absence detection	Product application	Limit, counting, metal presence or absence detection
Model description	N : NPN Normallyclosed N2 : NPN Alwayson		P : PNP Normallyclosed P2 : PNP Alwayson

Inductive proximity sensors

Long distance



Model	LJ8M-D1N/N2-2M LJ8M-D1P/P2-2M LJ8M-D2N/N2-2M LJ8M-D2P/P2-2M	Model	LJ8C-D2N/N2-2M LJ8C-D2P/P2-2M
Mounting method	Buried	Mounting method	Non-embedded
Size	M8×18mm	Size	M8×22mm
Detection distance	1mm±10%[LJ8M-D1...] 2mm±10%[LJ8M-D2...]	Detection distance	2mm±10%
Housing material	Stainless steel	Housing material	Stainless Steel
Sensing surface material	PBT	Sensing surface material	PBT
Working voltage	10-30V DC	Working voltage	10-30V DC
Switching frequency	2KHz[LJ8M-D1...] 1KHz[LJ8M-D2...]	Switching frequency	2KHz[LJ8C-D2...] 500Hz[LJ8C-D3...]
Repetition accuracy	<5.0% (Sr)	Repetition accuracy	< 3.0%(Sr)[LJ6.5M-C2...]/< 5.0%(Sr)[LJ6.5M-C3...]
Protection level	IP67	Protection level	IP67
Product application	Limit, counting, metal presence or absence detection	Product application	Limit, counting, metal presence or absence detection
Model description	N : NPN Normallyclosed N2 : NPN Alwayson	P : PNP Normallyclosed P2 : PNP Alwayson	

Model	LJ6.5M-C2N/N2-2M LJ6.5M-C2P/P2-2M LJ6.5M-C3N/N2-2M LJ6.5M-C3P/P2-2M	Model	LJ6.5C-C4N/N2-2M LJ6.5C-C4P/N2-2M LJ6.5C-C6N/N2-2M LJ6.5C-C6P/N2-2M
Mounting method	Buried	Mounting method	Non-embedded
Size	φ6.5×45mm	Size	φ6.5×45mm
Detection distance	2mm±10%[LJ6.5M-C2...] 3mm±10%[LJ6.5M-C3...]	Detection distance	4mm±10%[LJ6.5C-C4...] 6mm±10%[LJ6.5C-C6...]
Housing material	Stainless steel	Housing material	Stainless steel
Sensing surface material	PBT	Sensing surface material	PBT
Working voltage	10-30V DC	Working voltage	10-30V DC
Switching frequency	2KHz[LJ6.5M-C2...] 500Hz[LJ6.5M-C3...]	Switching frequency	800Hz[LJ6.5C-C4...] 400Hz[LJ6.5C-C6...]
Repetition accuracy	< 3.0%(Sr)[LJ6.5M-C2...]/< 5.0%(Sr)[LJ6.5M-C3...]	Repetition accuracy	< 5.0%(Sr)
Protection level	IP67	Protection level	IP67
Product application	Limit, counting, metal presence or absence detection	Product application	Limit, counting, metal presence or absence detection
Model description	N : NPN Normallyclosed N2 : NPN Alwayson	P : PNP Normallyclosed P2 : PNP Alwayson	

Proximity Sensors

Inductive proximity sensors

Long distance



Model	LJ8M-C2N/N2-2M LJ8M-C2P/P2-2M LJ8M-C3N/N2-2M LJ8M-C3P/P2-2M
Mounting method	Buried
Size	M8*45mm
Detection distance	2mm±10%[LJ8M-C2...] 3mm±10%[LJ8M-C3...]
Housing material	Copper nickel plating
Sensing surface material	PBT
Working voltage	10-30V DC
Switching frequency	1kHz[LJ8M-C2...] 500Hz[LJ8M-C3...]
Repetition accuracy	< 3.0%(Sr)[LJ8M-C2...] / < 5.0%(Sr)[LJ8M-C3...]
Protection level	IP67
Product application	Limit, counting, metal presence or absence detection
Model description	[N] :NPN Normallyclosed [N2] :NPN Alwayson

Model	LJ8C-C4N/N2-2M LJ8C-C4P/P2-2M LJ8C-C6N/N2-2M LJ8C-C6P/P2-2M
Mounting method	Non-embedded
Size	M8*45mm
Detection distance	4mm±10%[LJ8C-C4...] 6mm±10%[LJ8C-C6...]
Housing material	Copper nickel plating
Sensing surface material	PBT
Working voltage	10-30V DC
Switching frequency	800Hz[LJ8C-C4...] 400Hz[LJ8C-C6...]
Repetition accuracy	< 5.0%(Sr)
Protection level	IP67
Product application	Limit, counting, metal presence or absence detection
Model description	[P] :PNP Normallyclosed [P2] :PNP Alwayson

Proximity Sensors

Inductive proximity sensors

Long distance



Model	LJ18M-C8N/N2-2M LJ18M-C8P/P2-2M LJ18M-C12N/N2-2M LJ18M-C12P/P2-2M
Mounting method	Buried
Size	M18*55mm
Detection distance	8mm±10%[LJ18M-C8...] 12mm±10%[LJ18M-C12...]
Housing material	Copper nickel plating
Sensing surface material	PBT
Working voltage	10-30V DC
Switching frequency	500Hz[LJ18M-C8...] 300Hz[LJ18M-C12...]
Repetition accuracy	< 3.0%(Sr)[LJ18M-C8...] / < 5.0%(Sr) [LJ18M-C12...]
Protection level	IP67
Product application	Limit, counting, metal presence or absence detection
Model description	[N] :NPN Normallyclosed [N2] :NPN Alwayson

Model	LJ18C-C16P/P2-2M LJ18C-C20NL/N2-2M LJ18C-C20PL/P2-2M
Mounting method	Non-embedded
Size	M18*60mm
Detection distance	16mm±10%[LJ18C-C16...] 20mm±10%[LJ18C-C20...]
Housing material	Copper nickel plating
Sensing surface material	PBT
Working voltage	10-30V DC
Switching frequency	150Hz[LJ18C-C16...] 100Hz[LJ18C-C20...]
Repetition accuracy	< 5.0%(Sr)
Protection level	IP67
Product application	Limit, counting, metal presence or absence detection
Model description	[P] :PNP Normallyclosed [P2] :PNP Alwayson



Model	LJ12M-C4N/N2-2M LJ12M-C4P/P2-2M LJ12M-C6N/N2-2M LJ12M-C6P/P2-2M
Mounting method	Buried
Size	M12*45mm
Detection distance	4mm±10%[LJ12M-C4...] 6mm±10%[LJ12M-C6...]
Housing material	Copper nickel plating
Sensing surface material	PBT
Working voltage	10-30V DC
Switching frequency	1kHz[LJ12M-C4...] 500Hz[LJ12M-C6...]
Repetition accuracy	< 3.0%(Sr)[LJ12M-C4...] / < 5.0%(Sr)[LJ12M-C6...]
Protection level	IP67
Product application	Limit, counting, metal presence or absence detection
Model description	[N] :NPN Normallyclosed [N2] :NPN Alwayson

Model	LJ12C-C8N/N2-2M LJ12C-C8P/P2-2M LJ12C-C10N/N2-2M LJ12C-C10P/P2-2M
Mounting method	Non-embedded
Size	M12*50mm
Detection distance	8mm±10%[LJ12C-C8...] 10mm±10%[LJ12C-C10...]
Housing material	Copper nickel plating
Sensing surface material	PBT
Working voltage	10-30V DC
Switching frequency	500Hz[LJ12C-C8...] 300Hz[LJ12C-C10...]
Repetition accuracy	< 5.0%(Sr)
Protection level	IP67
Product application	Limit, counting, metal presence or absence detection
Model description	[P] :PNP Normallyclosed [P2] :PNP Alwayson



Model	LJ30M-C15N/N2-2M LJ30M-C15P/P2-2M LJ30M-C22N/N2-2M LJ30M-C22P/P2-2M
Mounting method	Buried
Size	M30*55mm
Detection distance	15mm±10%[LJ30M-C15...] 22mm±10%[LJ30M-C22...]
Housing material	Copper nickel plating
Sensing surface material	PBT
Working voltage	10-30V DC
Switching frequency	150Hz
Repetition accuracy	< 5.0%(Sr)
Protection level	IP67
Product application	Limit, counting, metal presence or absence detection
Model description	[N] :NPN Normallyclosed [N2] :NPN Alwayson

Model	LJ30C-C25P/N2-2M LJ30C-C40N/N2-2M LJ30C-C40P/N2-2M
Mounting method	Non-embedded
Size	M30*60mm
Detection distance	25mm±10%[LJ30C-C25...] 40mm±10%[LJ30C-C40...]
Housing material	Copper nickel plating
Sensing surface material	PBT
Working voltage	10-30V DC
Switching frequency	100Hz
Repetition accuracy	< 5.0%(Sr)
Protection level	IP67
Product application	Limit, counting, metal presence or absence detection
Model description	[P] :PNP Normallyclosed [P2] :PNP Alwayson

Proximity Sensors

Inductive proximity sensors

Long distance



Model	LJ30M-J15N/N2-2M LJ30M-J15P/P2-2M LJ30M-J22N/N2-2M LJ30M-J22P/P2-2M
Mounting method	Buried
Size	M30×80mm
Detection distance	15mm±10%[LJ30M-J15...] 22mm±10%[LJ30M-J22...]
Housing material	Copper nickel plating
Sensing surface material	PBT
Working voltage	10-30V DC
Switching frequency	500Hz[LJ30M-J15...] 300Hz[LJ30M-J22...]
Repetition accuracy	< 3.0%(Sr)[LJ30M-J15...]/< 5.0%(Sr)[LJ30M-J22...]
Protection level	IP67
Product application	Limit, counting, metal presence or absence detection
Model description	[N] :NPN Normallyclosed [N2] :NPN Alwayson



Model	LJ30C-J25N/N2-2M LJ30C-J25P/P2-2M LJ30C-J40N/N2-2M LJ30C-J40P/P2-2M
Mounting method	Non-embedded
Size	M30×82mm
Detection distance	25mm±10%[LJ30C-J25...] 40mm±10%[LJ30C-J40...]
Housing material	Copper nickel plating
Sensing surface material	PBT
Working voltage	10-30V DC
Switching frequency	150Hz[LJ30C-J25...] 100Hz[LJ30C-J40...]
Repetition accuracy	< 5.0%(Sr)
Protection level	IP67
Product application	Limit, counting, metal presence or absence detection
Model description	[P] :PNP Normally closed [P2] :PNP Always on

Proximity Sensors

Inductive proximity sensors

Long distance



Model	LJ18M-J8N/N2-2M LJ18M-J8P/P2-2M LJ18M-J12N/N2-2M LJ18M-J12P/P2-2M
Mounting method	Buried
Size	M18×80mm
Detection distance	8mm±10%[LJ18M-J8...] 12mm±10%[LJ18M-J12...]
Housing material	Copper nickel plating
Sensing surface material	PBT
Working voltage	10-30V DC
Switching frequency	500Hz[LJ18M-J8...] 300Hz[LJ18M-J12...]
Repetition accuracy	< 3.0%(Sr)[LJ18M-J8...]/< 5.0%(Sr)[LJ18M-J12...]
Protection level	IP67
Product application	Limit, counting, metal presence or absence detection
Model description	[N] :NPN Normallyclosed [N2] :NPN Alwayson



Model	LJ18C-J16N/N2-2M LJ18C-J16P/P2-2M LJ18C-J20N/N2-2M LJ18C-J20P/P2-2M
Mounting method	Non-embedded
Size	M18×83mm
Detection distance	16mm±10%[LJ18C-J16...] 20mm±10%[LJ18C-J20...]
Housing material	Copper nickel plating
Sensing surface material	PBT
Working voltage	10-30V DC
Switching frequency	150Hz[LJ18C-J16...] 100Hz[LJ18C-J20...]
Repetition accuracy	< 3.0%(Sr)[LJ18C-J16...]/< 5.0%(Sr)[LJ18C-J12...]
Protection level	IP67
Product application	Limit, counting, metal presence or absence detection
Model description	[P] :PNP Normallyclosed [P2] :PNP Always on



Model	LJ12M-J4N/N2-2M LJ12M-J4P/P2-2M LJ12M-J6N/N2-2M LJ12M-J6P/P2-2M
Mounting method	Buried
Size	M12×68mm
Detection distance	4mm±10%[LJ12M-J4...] 6mm±10%[LJ12M-J6...]
Housing material	Copper nickel plating
Sensing surface material	PBT
Working voltage	10-30V DC
Switching frequency	1KHz[LJ12M-J4...] 400Hz[LJ12M-J6...]
Repetition accuracy	< 3.0%(Sr)[LJ12M-J4...]/< 5.0%(Sr)[LJ12M-J6...]
Protection level	IP67
Product application	Limit, counting, metal presence or absence detection
Model description	[N] :NPN Normallyclosed [N2] :NPN Alwayson



Model	LJ6.5M-E1N/N2-2M LJ6.5M-E1P/P2-2M LJ6.5M-E2N/N2-2M LJ6.5M-E2P/P2-2M
Mounting method	Buried
Size	φ6.5×35mm
Detection distance	1mm±10%[LJ6.5M-E1...] 2mm±10%[LJ6.5M-E2...]
Housing material	Stainless steel
Sensing surface material	PBT
Working voltage	10-30V DC
Switching frequency	2KHz[LJ6.5M-E1...] 1KHz[LJ6.5M-E2...]
Repetition accuracy	< 3.0%(Sr)
Protection level	IP67
Product application	Limit, counting, metal presence or absence detection
Model description	[N] :NPN Normallyclosed [N2] :NPN Alwayson



Model	LJ6.5C-E2N/N2-2M LJ6.5C-E2P/P2-2M
Mounting method	Non-embedded
Size	φ6.5×35mm
Detection distance	2mm±10%[LJ6.5C-E2...]
Housing material	Stainless steel
Sensing surface material	PBT
Working voltage	10-30V DC
Switching frequency	2KHz[LJ6.5C-E2...]
Repetition accuracy	< 3.0%(Sr)
Protection level	IP67
Product application	Limit, counting, metal presence or absence detection
Model description	[P] :PNP Normallyclosed [P2] :PNP Always on

Proximity Sensors

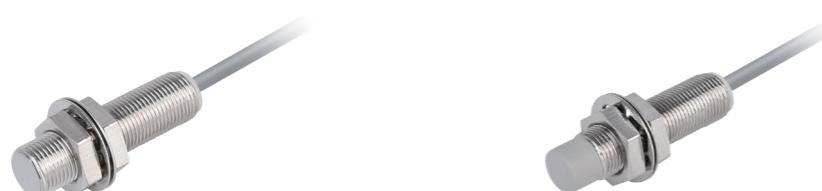
Inductive proximity sensors

Standard



Model	LJ8M-E2N/N2-2M LJ8M-E2P/P2-2M LJ8M-E4N/N2-2M LJ8M-E4P/P2-2M LJ8C-E2N/N2-2M LJ8C-E2P/P2-2M LJ8C-E4N/N2-2M LJ8C-E4P/P2-2M LJ8C-E6N/N2-2M LJ8C-E6P/P2-2M	LJ12M-E2N/N2-2M LJ12M-E2P/P2-2M LJ12M-E4N/N2-2M LJ12M-E4P/P2-2M LJ12M-E4P/P2-2M	LJ12C-E4N/N2-2M LJ12C-E4P/P2-2M
Mounting method	Buried	Non-embedded	Buried
Size	M8×45mm	M8×45mm	M12×35mm
Detection distance	2mm±10%[LJ8M-E2...] 3mm±10%[LJ8M-E4...]	2mm±10%[LJ8C-E2...] 4mm±10%[LJ8C-E4...] 6mm±10%[LJ8C-E6...]	2mm±10%[LJ12M-E2...] 4mm±10%[LJ12M-E4...]
Housing material	Copper nickel plating	Copper nickel plating	Copper nickel plating
Sensing surface material	PBT	PBT	PBT
Working voltage	10-30V DC	10-30V DC	10-30V DC
Switching frequency	2KHz[LJ8M-E2...] 1KHz[LJ8M-E4...] <3.0%(Sr)	2KHz[LJ8C-E2...] 1KHz[LJ8C-E4...] 500Hz[LJ8C-E6...] <3.0%(Sr)[LJ8C-E2...] <5.0%(Sr)[LJ8C-E4...]/[LJ8C-E6...] IP67	2KHz[LJ12M-E2...] 1KHz[LJ12M-E4...] <5.0%(Sr)[LJ12C-E2...] <3.0%(Sr)[LJ12C-E4...] IP67
Repetition accuracy			<3.0%(Sr)
Protection level	IP67	IP67	IP67
Product application	Limit, counting, metal presence or absence detection	Limit, counting, metal presence or absence detection	Limit, counting, metal presence or absence detection
Model description	[N] : NPN Normallyclosed [N2] : NPN Alwayson	[P] : PNP Normallyclosed [P2] : PNP Alwayson	[P] : PNP Normallyclosed [P2] : PNP Alwayson

Standard



Model	LJ12M-E2N/N2-2MS LJ12M-E2P/P2-2MS	LJ12C-E4N/N2-2MS LJ12C-E4P/P2-2MS
Mounting method	Buried	Non-embedded
Size	M12×45mm	M12×45mm
Detection distance	2mm±10%[LJ12M-E2...] 4mm±10%[LJ12M-E4...]	4mm±10%[LJ12C-E4...]
Housing material	Copper nickel plating	Copper nickel plating
Sensing surface material	PBT	PBT
Working voltage	10-30V DC	10-30V DC
Switching frequency	2KHz[LJ12M-E2...] 1KHz[LJ12C-E4...]	1KHz[LJ12C-E4...]
Repetition accuracy	< 3.0% (Sr)	< 5.0% (Sr)
Protection level	IP67	IP67
Product application	Limit, counting, metal presence or absence detection	Limit, counting, metal presence or absence detection
Model description	[N] : NPN Normallyclosed [N2] : NPN Alwayson	[P] : PNP Normallyclosed [P2] : PNP Alwayson

Proximity Sensors

Inductive proximity sensors

Standard



Model	LJ18M-E5N/N2-2MS LJ18M-E5P/P2-2MS	LJ18C-E8N/N2-2MS LJ18C-E8P/P2-2MS	LJ30M-E10N/N2-2M LJ30M-E10P/P2-2M	LJ30C-E15N/N2-2M LJ30C-E15P1/P2-2M
Mounting method	Buried	Non-embedded	Buried	Non-embedded
Size	M18×55mm	M18×55mm	M30×55mm	M30×58mm
Detection distance	5mm±10%[LJ18M-E5...] 8mm±10%[LJ18C-E8...]	5mm±10%[LJ18M-E5...] 8mm±10%[LJ18C-E8...]	10mm±10%[LJ30M-E10...] 15mm±10%[LJ30C-E15...]	15mm±10%[LJ30C-E15...]
Housing material	Copper nickel plating	Copper nickel plating	Copper nickel plating	Copper nickel plating
Sensing surface material	PBT	PBT	PBT	PBT
Working voltage	10-30V DC	10-30V DC	10-30V DC	10-30V DC
Switching frequency	1KHz[LJ18M-E5...] 700Hz[LJ18C-E8...]	1KHz[LJ18M-E5...] 700Hz[LJ18C-E8...]	1KHz[LJ30M-E10...] 700Hz[LJ30C-E15...]	2KHz[LJ30C-E15...] 700Hz[LJ30C-E15...]
Repetition accuracy	<3.0%(Sr)	<5.0%(Sr)	<3.0%(Sr)	<3.0%(Sr)
Protection level	IP67	IP67	IP67	IP67
Product application	Limit, counting, metal presence or absence detection			
Model description	[N] : NPN Normallyclosed [N2] : NPN Alwayson	[P] : PNP Normallyclosed [P2] : PNP Alwayson	[N] : NPN Normallyclosed [N2] : NPN Alwayson	[P] : PNP Normallyclosed [P2] : PNP Alwayson

Inductive proximity sensors DC two-wire type



Model	LJ8M-E1B/B2-2M LJ8M-E2B/B2-2M	LJ8C-E2B/B2-2M LJ8C-E3B/B2-2M	LJ12M-E2B/B2-2M LJ12M-E4B/B2-2M	LJ12C-E4B/B2-2M
Mounting method	Buried	Non-embedded	Buried	Non-embedded
Size	M8×45mm	M8×45mm	M12×35mm	M12×45mm
Detection distance	1mm±10%[LJ8M-E1...] 2mm±10%[LJ8C-E2...] 3mm±10%[LJ8C-E4...]	2mm±10%[LJ8C-E2...] 3mm±10%[LJ8C-E4...]	2mm±10%[LJ12M-E2...] 4mm±10%[LJ12M-E4...]	4mm±10%[LJ12C-E4...]
Housing material	Copper nickel plating	Copper nickel plating	Copper nickel plating	Copper nickel plating
Sensing surface material	PBT	PBT	PBT	PBT
Working voltage	10-30V DC	10-30V DC	10-30V DC	10-30V DC
Switching frequency	1.2KHz[LJ8M-E1...] 1KHz[LJ8M-E2...] 800Hz[LJ8C-E3...]	1.2KHz[LJ8C-E2...] 1KHz[LJ8M-E2...] 800Hz[LJ8C-E3...]	300Hz[LJ12M-E2...] 100Hz[LJ12M-E4...]	300Hz[LJ12C-E4...] 100Hz[LJ12M-E4...]
Repetition accuracy	< 3.0% (Sr)	< 5.0% (Sr)	< 3.0% (Sr)	< 5.0% (Sr)
Protection level	IP67	IP67	IP67	IP67
Product application	Limit, counting, metal presence or absence detection	Limit, counting, metal presence or absence detection	Limit, counting, metal presence or absence detection	Limit, counting, metal presence or absence detection
Model description	[B] : Two-wire normally closed [B2] : Two-wire normally open	[B] : Two-wire normally closed [B2] : Two-wire normally open	[B] : Two-wire normally closed [B2] : Two-wire normally open	[B] : Two-wire normally closed [B2] : Two-wire normally open

Proximity Sensors

Inductive proximity sensors

DC 2-wire



Model	LJ18M-E5B/B2-2M LJ18M-E8B/B2-2M	LJ18C-E8B/B2-2M LJ18C-E12B/B2-2M LJ18C-E16B/B2-2M	LJ30M-E10B/B2-2M LJ30M-E16B/B2-2M	LJ30C-E25B/B2-2M
Mounting method	Buried	Non-embedded	Buried	Non-embedded
Size	M18×55mm	M18×55mm	M30×55mm	M30×60mm
Detection distance	5mm±10%[LJ18M-E5...] 8mm±10%[LJ18M-E8...]	8mm±10%[LJ18C-E8...] 12mm±10%[LJ18C-E12...] 16mm±10%[LJ18C-E16...]	10mm±10%[LJ30M-E10...] 16mm±10%[LJ30M-E16...]	25mm±10%[LJ30C-E25...]
Housing material	Copper nickel plating	Copper nickel plating	Copper nickel plating	Copper nickel plating
Sensing surface material	PBT	PBT	PBT	PBT
Working voltage	10-30V DC	10-30V DC	10-30V DC	10-30V DC
Switching frequency	300Hz[M18M-E5...] 100Hz [M18M-E8...]	300Hz[LJ18C-E8...] 100Hz [LJ18C-E12...] 100HZLMJ18C-E16...]	300Hz[LJ30M-E10...] 100Hz[LJ30M-E16...]	100Hz[LJ30C-E25...]
Repetition accuracy	< 3.0%(Sr)	< 3.0%(Sr)	< 3.0%(Sr)	< 5.0%(Sr)
Protection level	IP67	IP67	IP67	IP67
Product application	Limit, counting, metal presence or absence detection	Limit, counting, metal presence or absence detection	Limit, counting, metal presence or absence detection	Limit, counting, metal presence or absence detection
Model description	B : Two-wire normally closed B2 : Two-wirenormallyopen	LJ18C- E8B/B2-2M	LJ30M- E10B/B2-2M	LJ30C- E25B/B2-2M

Proximity Sensors

Inductive proximity sensors

Square



Model	LJQ8M-F2.5N/N2-2M LJQ8M-F2.5P/P2-2M	LJQ10M-F2.5N/N2-2M LJQ10M-F2.5P/P2-2M	LJQ10M-F4N/N2-2M LJQ10M-F4P/P2-2M
Mounting method	Non-embedded	Non-embedded	Non-embedded
Size	8×8×24mm	10×6×27mm	10×6×27mm
Sensing distance	2.5mm±10%	2.5mm±10%	4mm±10%
Setting distance	0-2.0mm	0-2.0mm	0-3.2mm
Sensing object	Magnetic metals	Magnetic metals	Magnetic metals
Detection surface	Upper end sensing	Upper end sensing	Upper end sensing
Operating ambient temperature	-25°C ~ +70°C 10-	-25°C ~ +70°C	-25°C ~ +70°C
Operating voltage	30V DC	10-30V DC	10-30V DC
Response time	0.2ms	0.2ms	0.2ms
Switching frequency	1KHz	1KHz	1KHz
Protection level	IP67	IP67	IP67
Product application	Limit, counting, metal presence or absence detection	Limit, counting, metal presence or absence detection	Limit, counting, metal presence or absence detection
Model description	N :NPN Normallyclosed N2 :NPN Alwayson	P :PNP Normallyclosed P2 :PNP Alwayson	N :NPN Normallyclosed N2 :NPN Alwayson

Inductive proximity sensors

Square



Model	LJQ5M-F1N/N2-2MS LJQ5M-F1P/P2-2MS	LJQ5M-F1N/N2-2M LJQ5M-F1P/P2-2M	LJQ8M-F2.5N/N2-2MS LJQ8M-F2.5P/P2-2MS
Mounting method	Non-embedded	Non-embedded	Non-embedded
Size	5×5×23mm	5×5×23mm	8×8×25mm
Sensing distance	1mm±10%0-0.	1mm±10%	2.5mm±10%
Setting distance	8mm	0-0.8mm	0-2.0mm
Sensing object	Magnetic metals	Magnetic metals	Magnetic metals
Detection surface	Front-end sensing	Upper end sensing	Front-end sensing
Operating ambient temperature	-25°C ~ +70°C	-25°C ~ +70°C	-25°C ~ +70°C
Operating voltage	10-30V DC	10-30V DC	10-30V DC
Response time	0.2ms	0.2ms	0.2ms
Switching frequency	1KHz	1KHz	1KHz
Protection level	IP67	IP67	IP67
Product application	Limit, counting, metal presence or absence detection	Limit, counting, metal presence or absence detection	Limit, counting, metal presence or absence detection
Model description	N :NPN Normallyclosed N2 :NPN Alwayson	P :PNP Normallyclosed P2 :PNP Alwayson	N :NPN Normallyclosed N2 :NPN Alwayson

Inductive proximity sensors

Square



Model	LJQ17M-F5N/N2-2M LJQ17M-F5P/P2-2M	LJQ17M-F8N/N2-2M LJQ17M-F8P/P2-2M	LJQ18M-F5N/N2-2M LJQ18M-F5P/P2-2M
Mounting method	Non-embedded	Non-embedded	Non-embedded
Size	17×17×28mm	17×17×28mm	18×10×30.5mm 5mm±
Sensing distance	5mm±10%	8mm±10%	10%
Setting distance	0-4mm	0-6.4mm	0-4mm
Sensing object	Magnetic metals	Magnetic metals	Magnetic metals
Detection surface	Front-end sensing	Front-end sensing	Front-end sensing
Operating ambient temperature	-25°C ~ +70°C	-25°C ~ +70°C	-25°C ~ +70°C
Operating voltage	10-30V DC	10-30V DC	10-30V DC
Response time	0.2ms	0.3ms	0.2ms
Switching frequency	500Hz	400KHz	1KHz
Protection level	IP67	IP67	IP67
Product application	Limit, counting, metal presence or absence detection	Limit, counting, metal presence or absence detection	Limit, counting, metal presence or absence detection
Model description	N :NPN Normallyclosed N2 :NPN Alwayson	P :PNP Normallyclosed P2 :PNP Alwayson	N :NPN Normallyclosed N2 :NPN Alwayson

Proximity Sensors

Inductive proximity sensors

Square



Model	LJQ18M-F8N/N2-2M LJQ18M-F8P/P2-2M	LJQ17M-F5N/N2-2M LJQ17M-F5P/P2-2M	LJQ18M-F5N/N2-2M LJQ18M-F5P/P2-2M
Mounting method	Non-embedded	Non-embedded	Non-embedded
Size	18*18*30.5mm	18*18*35mm	18*18*35mm
Sensing distance	8mm±10%	5mm±10%	5mm±10%
Setting distance	0-6.4mm	0-4mm	0-4mm
Sensing object	Magnetic metals	Magnetic metals	Magnetic metals
Detection surface	Upper end sensing	Front-end sensing	Front-end sensing
Operating ambient temperature	-25°C ~ +70°C	-25°C ~ +70°C	-25°C ~ +70°C
Operating voltage	10-30V DC	10-30V DC	10-30V DC
Response time	0.3ms	0.2ms	0.2ms
Switching frequency	500Hz	500Hz	1KHz
Protection level	IP67	IP67	IP67
Product application	Limit, counting, metal presence or absence detection	Limit, counting, metal presence or absence detection	Limit, counting, metal presence or absence detection
Model description	[N] :NPN Normallyclosed [N2]:NPN Alwayson [P] :PNP Normallyclosed [P2]:PNP Alwayson	[N] :NPN Normallyclosed [N2]:NPN Alwayson [P] :PNP Normallyclosed [P2]:PNP Alwayson	[N] :NPN Normallyclosed [N2]:NPN Alwayson [P] :PNP Normallyclosed [P2]:PNP Alwayson

Proximity Sensors

Capacitive proximity sensors

Cylindrical



Model	LJ12C-E6N/N2-2MR LJ12C-E6P/P2-2MR	LJ18M-E8N/N2-2MR LJ18M-E8P/P2-2MR	LJ18C-E15N/N2-2MR LJ18C-E15P/P2-2MR
Installation method	Non-embedded	Buried	Non-embedded
Size	M12*65mm	M18*70mm	M30*82mm
Sensing distance	1-6mm±10% (Adjustable)	2-8mm±10% (Adjustable)	2-15mm±10% (Adjustable)
Housing material	Copper nickel plating	Copper nickel plating	Copper nickel plating
Sensing surface material	PBT	PBT	PBT
Operating voltage	10-30V DC	10-30V DC	10-30V DC
Switching frequency	50Hz	50Hz	50Hz
Repetition accuracy	< 5.0%(Sr)	< 5.0%(Sr)	< 5.0%(Sr)
Protection level	IP67	IP67	IP67
Product application	Non-metallic object detection, wafer counting and positioning	Non-metallic object detection, wafer counting and positioning	Non-metallic object detection, wafer counting and positioning
Model description	[N] :NPN Normallyclosed [N2]:NPN Alwayson [P] :PNP Normallyclosed [P2]:PNP Alwayson	[N] :NPN Normallyclosed [N2]:NPN Alwayson [P] :PNP Normallyclosed [P2]:PNP Alwayson	[N] :NPN Normallyclosed [N2]:NPN Alwayson [P] :PNP Normallyclosed [P2]:PNP Alwayson

Capacitive proximity sensors

Cylindrical



Model	LJ8M-E1N/N2-2MR LJ8M-E1P/P2-2MR	LJ8C-E2N/N2-2MR LJ8C-E2P/P2-2MR	LJ12M-E3N/N2-2MR LJ12M-E3P/P2-2MR
Installation method	Buried	Non-embedded	Buried
Size	M8*45mm	M8*45mm	M12*60mm
Sensing distance	1mm±10%	2mm±10%	1-3mm±10% (Adjustable)
Housing material	Copper nickel plating	Copper nickel plating	Copper nickel plating
Sensing surface material	PBT	PBT	PBT
Operating voltage	10-30V DC	10-30V DC	10-30V DC
Switching frequency	100Hz	100Hz	50Hz
Repetition accuracy	< 5.0%(Sr)	< 5.0%(Sr)	< 5.0%(Sr)
Protection level	IP67	IP67	IP67
Product application	Non-metallic object detection, wafer counting and positioning	Non-metallic object detection, wafer counting and positioning	Non-metallic object detection, wafer counting and positioning
Model description	[N] :NPN Normallyclosed [N2]:NPN Alwayson [P] :PNP Normallyclosed [P2]:PNP Alwayson	[N] :NPN Normallyclosed [N2]:NPN Alwayson [P] :PNP Normallyclosed [P2]:PNP Alwayson	[N] :NPN Normallyclosed [N2]:NPN Alwayson [P] :PNP Normallyclosed [P2]:PNP Alwayson

Capacitive proximity sensors

Cylindrical



Model	LJ12M-S3N/N2-2MR LJ12M-S3P/P2-2MR	LJ12C-S6N/N2-2MR LJ12C-S6P/P2-2MR	LJ18M-S8N/N2-2MR LJ18M-S8P/P2-2MR
Installation method	Buried	Non-embedded	Buried
Size	M12*58mm	M12*63mm	M18*72mm
Sensing distance	1-3mm±10% (Adjustable)	1-6mm±10% (Adjustable)	2-8mm±10% (Adjustable)
Housing material	ABS	ABS	ABS
Sensing surface material	PBT	PBT	PBT
Operating voltage	10-30V DC	10-30V DC	10-30V DC
Switching frequency	50Hz	50Hz	50Hz
Repetition accuracy	< 5.0%(Sr)	< 5.0%(Sr)	< 5.0%(Sr)
Protection level	IP67	IP67	IP67
Product application	Limit, counting, metal presence or absence detection	Limit, counting, metal presence or absence detection	Limit, counting, metal presence or absence detection
Model description	[N] :NPN Normallyclosed [N2]:NPN Alwayson [P] :PNP Normallyclosed [P2]:PNP Alwayson	[N] :NPN Normallyclosed [N2]:NPN Alwayson [P] :PNP Normallyclosed [P2]:PNP Alwayson	[N] :NPN Normallyclosed [N2]:NPN Alwayson [P] :PNP Normallyclosed [P2]:PNP Alwayson

Proximity Sensors

Capacitive proximity sensors Cylindrical



Model	LJ18C-S15N/N2-2MR LJ18C-S15P/P2-2MR	LJ30M-S20N/N2-2MR LJ30M-S20P/P2-2MR	LJ30C-S30N/N2-2MR LJ30C-S30P/P2-2MR
Installation method	Non-embedded	Buried	Non-embedded
Size	M18*78mm	M30*87mm	M30*86mm
Sensing distance	2-15mm±10% (Adjustable)	1-20mm±10% (Adjustable)	1-30mm±10% (Adjustable)
Housing material	ABS	ABS	ABS
Sensing surface material	ABS	PBT	PBT
Operating voltage	10-30V DC	10-30V DC	10-30V DC
Switching frequency	50Hz	50Hz	50Hz
Repetition accuracy	< 5.0%(Sr)	< 5.0%(Sr)	< 5.0%(Sr)
Protection level	IP67	IP67	IP67
Product application	Non-metallic object detection, wafer counting and positioning	Non-metallic object detection, wafer counting and positioning	Non-metallic object detection, wafer counting and positioning
Model description	N :NPN Normallyclosed N2 :NPN Alwayson	P :PNP Normallyclosed P2 :PNP Alwayson	

Proximity Sensors

Inductive proximity sensors Ring approach



Model	LJR-12N/P	LJR-19N/P	LJR-21N/P
Bore size	12mm	19mm	21mm
Minimum detectables	2.5mm	4mm	4.5mm
Detecting objects	Metals / Magnetic metals	Metals / Magnetic metals	Metals / Magnetic metals
Housing material	PBT	PBT	PBT
Response time	20m/s	20m/s	10m/s
Operating voltage	10-30V DC	10-30V DC	10-30V DC
Detection method	Free fall or blowing type	Free fall or blowing type	Free fall or blowing type
Sensitivity adjustment	Multi-turn precision potentiometers	Multi-turn precision potentiometers	Multi-turn precision potentiometers
Protection level	IP67	IP67	IP67
Product application	Metal/magnetic object detection, counting and positioning	Metal/magnetic object detection, counting and positioning	Metal/magnetic object detection, counting and positioning

Inductive proximity sensors Ring approach



Model	LJR-06N/P	LJR-08N/P	LJR-10N/P
Bore size	6mm	8mm	10mm
Minimum detectables	1.2mm	1.6mm	2mm
Detecting objects	Metals / Magnetic metals	Metals / Magnetic metals	Metals / Magnetic metals
Housing material	PBT	PBT	PBT
Response time	30m/s	30m/s	30m/s
Operating voltage	10-30V DC	10-30V DC	10-30V DC
Detection method	Free fall or blowing type	Free fall or blowing type	Free fall or blowing type
Sensitivity adjustment	Multi-turn precision potentiometers	Multi-turn precision potentiometers	Multi-turn precision potentiometers
Protection level	IP67	IP67	IP67
Product application	Metal/magnetic object detection, counting and positioning	Metal/magnetic object detection, counting and positioning	Metal/magnetic object detection, counting and positioning

Color Sensors



Color sensors

Small color mark sensor



Model

MARK

Output type One output port Wire lead type

Detection distance 5-20mm

Light spot size 2*5mm

Response time 0.1-1ms

Control output NPN or PNP open collector single color light source

Light source (color-coded mode)

Operating voltage 10-24V DC±10%

Ambient temperature -10°C to 55°C No freezing No condensation

Product application Detection of the presence or absence of marked pattern blocks, color bars, or objects, etc.



Color sensors

One-piece color mark sensor

Model

EM-S11N/P

Output type One output port Wire lead type

Detection distance 18-30mm

Light spot size 1.5*7mm

Response time Under 200us

Control output NPN or PNP open collector transistors

Light source Monochromatic light source (color scale mode)/RGB tricolor light source (color mode)

Operating voltage 24V DC±10% Pulsation P-P10% or less

Ambient temperature -15°C~55°C No freezing No condensation

Product application Marked pattern color block, color bar, correction, mark finding detection or object presence detection

Color Sensors

Color sensors

High precision intelligent digital



Model

EM-C21N/P

Output type NPN or PNP

Detection distance 8-25mm

Light spot size 1*5mm

Response time 200us(HSP) / 1ms(FINE) / 4ms(TURBO) 8ms(SUPER)

Control output NPN/PNP open collector x4 channel

Light source RGB tricolor light source

Operating voltage 24V DC fluctuation (P-P): 10% max.

Ambient temperature -10°C to 55°C No condensation

Timer function Timer OFF/OFF-delay/ON-delay/single shot.

Product application Timer time: adjustable from 1 to 1000ms (for one domain respectively)

Marking pattern color block, color bar, correction, mark finding detection or object presence detection, etc.

Color sensor probes 1



Model

EM-C35

Type Large light point long distance type

Detection distance 28-52mm

Minimum light 40mm reference distance

Point diameter 4.5mm diameter

Minimum bending diameter R25mm



EM-C37

Small light point short distance type

11-20mm

16mm reference distance

1mm diameter

R15mm

Laser Displacement Sensor



Laser displacement sensors CMOS laser



Model

LE-S030MN/P [Dual output type] HOT!
LE-S050MN/P [Dual output type]
LE-S100N/P [Switching output type]
LE-S100MN/P [Dual output type]
LE-S200N/P [Switching output type]
LE-S200MN/P [Dual output type]
LE-S400N/P [Switching output type]
LE-S400MN/P [Dual output type]

Measuring center distance

30mm[LE-S030M...]/50mm[LE-S050M...]/100mm[LE-S100N...][LE-S100M...]
200mm[LE-S200N...]/400mm[LE-S400N...][LE-S400M...]

±5mm[LE-S030M...]/±15mm[LE-S050M...]/±35mm[LE-S100N...][LE-S100M...]
±80mm[LE-S200N...]/±200mm[LE-S400N...][LE-S400M...]

Detection range

10μm[LE-S030M...]/50μm[LE-S050M...]/100μm[LE-S100N...][LE-S100M...]
200μm[LE-S200N...][LE-S200M...]
400μm(measuring distance 200-400mm)[LE-S400N...][LE-S400M...]
800μm(measuring distance 400-600mm)[LE-S400N...][LE-S400M...]

Repetition accuracy

Red semiconductor laser class 2.
Maximum output: 1mW, luminous beam wave length: 655nm

Light source

NPN/PNP open collector

Control output

RGB tricolor light source

Supply voltage

12-24V DC±10% Pulsation P-P 10%

Reaction time

1.5ms/5ms/10ms switchable

Product application

Measure the thickness, width, height, concavity, flatness of the object, measure the remaining amount of the roll and the presence or absence of the object, etc.

Laser Displacement Sensor

Laser displacement sensors Chinese version



Model

LE-030-N/P [Switching + Analog] HOT!
LE-050-N/P [Switching + Analog]
LE-100-N/P [Switching + Analog]
LE-200-N/P [Switching + Analog]

Measuring center distance

30mm[LE-030-N...]/100mm[LE-100-N...]
200mm[LE-200-N...]

±5mm[LE-030-N...]/±15mm[LE-050-N...]/±35mm[LE-100-N...]
±80mm[LE-200-N...]

Detection range

10μm[LE-030-N...]/50μm[LE-050-N...]/70μm[LE-100-N...]
200μm[LE-200-N...]

Repetition accuracy

Red semiconductor laser, CLASS 2.
Maximum output power: 1mW, luminescence wave length: 655nm

Light source

NPN/PNP open collector

Control output

RGB tricolor light source

Control output

12-24V DC±10%

Supply voltage

1ms/5ms/50ms switchable

Reaction time

Measure the thickness, width, height, concavity, flatness of the object, measure the remaining amount of the roll and the presence or absence of the object, etc.



Safety relay module



Model	LE-S3012N/P LE-S3012N/PO
Release buffer time	Emergency stop switch 30ms or less
Conformity to standards	ENISO 13849-1 ENISO 13849-2 EN 62061 IEC61508 IEC62061
Corresponding security category	4 (ENISO 13849-1)
Safety level	3 (IEC 61508, IEC 62061)
Module power consumption	≤3W (at 24VDC)
Overcurrent protection	Built in, electronic
Min applicable load	5V DC/10mA (initial value)
Rated insulation voltage	250V AC
6KV vibration-resistance	10-55Hz single amplitude 0.35mm
Protection level	IP20
Mechanical durability	More than 10 million times
Ambient temperature	-20~60°C (No icing)
Product application	Suitable for safety encoder/light curtain input, emergency stop switch for machine tools Monitoring function of dual signals such as safety switches

Model	LE-S3012NP LE-S3012NPO
Release buffer time	Emergency stop switch 30ms or less
Conformity to standards	ENISO 13849-1 ENISO 13849-2 EN 62061 IEC61508 IEC62061
Corresponding security category	4 (ENISO 13849-1)
Safety level	3 (IEC 61508, IEC 62061)
Module power consumption	≤3W (at 24VDC)
Overcurrent protection	Built in, electronic
Min applicable load	5V DC/10mA (initial value)
Rated insulation voltage	250V AC
6KV vibration-resistance	10-55Hz single amplitude 0.35mm
Protection level	IP20
Mechanical durability	More than 10 million times
Ambient temperature	-20~60°C (No icing)
Product application	Suitable for safety encoder/light curtain input, emergency stop switch for machine tools Monitoring function of dual signals such as safety switches

Safety door lock switch Electromagnetic



Model	QSD-
Housing material	PA66 flame retardant
Contact material	Silver alloy gold plating
Tensile strength at locking	1300N
Rated insulation voltage	300V
Rated impulse withstand voltage	2.5kV
Rated open thermal current	10A
Use category	AC-15 / DC-13
Rated working voltage	240V / 30V
Rated operating current	3A / 2.3A
Forced disengagement distance	≥10mm
Allowable operating speed	0.05~0.5m/s
Protection level	IP67 (EN60947-5-1, except key-operated holes)
Product application	Used in CNC machine tools, injection molding equipment, semiconductor manufacturing equipment, etc. can ensure that when the safety door is opened, the machine and equipment will not produce dangerous movements.



Safety door lock switch Electromagnetic

Model	QSD-M02B
Housing material	PA66 flame retardant
Contact material	Silver alloy gold plating
Tensile strength at locking	1300N
Rated insulation voltage	300V
Rated impulse withstand voltage	2.5kV
Rated open thermal current	10A
Use category	AC-15 / DC-13
Rated working voltage	240V / 30V / 250V
Rated operating current	3A / 2.3A / 0.27A
Forced disengagement distance	≥10mm
Allowable operating speed	0.05~0.5m/s
Protection level	IP67 (EN60947-5-1, except key-operated holes)
Product application	Used in CNC machine tools, injection molding equipment, semiconductor manufacturing equipment, etc. can ensure that when the safety door is opened, the machine and equipment will not produce dangerous movements.

Safety Door Lock Switch

Safety door lock switch

Mechanical



QSDP-

Model	
Housing material	PA66 flame retardant
Contact material	Silver alloy gold plating
Tensile strength at locking	≥60N
Rated insulation voltage	400V
Rated impulse withstand voltage	4kV
Rated open thermal current	8A
Use category	AC-15
Rated working voltage	400V
Rated operating current	2A
Forced disengagement distance	≥10mm
Allowable operating speed	0.05~0.5m/s
Protection level	IP67 (EN60947-5-1, except key-operated holes)
Product application	Used in CNC machine tools, injection molding equipment, semiconductor manufacturing equipment, etc. can ensure that when the safety door is opened, the machine and equipment will not produce dangerous movements.

Safety door lock switch

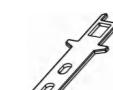
Operating keys



DE-K1
T-operated keys



DE-K2
L-operated key



DE-K3
Long T-operated key



DE-K4
Long L-operated key



DE-K5
Horizontal Adjustable Operating Key



DE-K6
Horizontal/vertical adjustable operating key

Ultrasonic Sensor



Ultrasonic sensors Single switch output



LB120-12GM55-E2/E3/E4/E5-V1
LB200-12GM55-E2/E3/E4/E5-V1

Model	
Testing scope	20-120mm[LB120...] 20-200mm[LB200...]
Output type	E2/E4(One switching outputPNP, NO/NC) E3/E5(One switching outputPNP, NO/NC)
Blind	0-20mm
Resolution	0.1mm
Repetition accuracy	±0.15% of full scale value
Response time	18ms[LB120...] 22ms[LB200...]
Switching frequency	55HZ[LB120...] 45HZ[LB200...]
Operating voltage	10-30V DC
Ambient temperature	-25°C to 70°C (248-343K)
Protection level	IP67
Product application	Liquid level detection, transparent object detection, human body detection, etc.

Ultrasonic sensors Analog/RS485/IO-LINK output



LB120-12GM65-I/U-V1
LB120-12GM55-R4/IO-V1
LB200-12GM65-I/U-V1
LB200-12GM55-R4/IO-V1

Model	
Testing scope	20-120mm[LB120...] 20-200mm[LB200...]
Output type	I (1 analog current output 4-20mA) / R4 (1 RS485 output Modbus-rtu) U (1 analog Voltage output 0-10V) / IO (1 push pull support IO-link output)
Blind	0-20mm
Resolution	0.1mm
Repetition accuracy	±0.15% of full scale value
Response time	18ms[LB120-12GM55...] 22ms[LB200-12GM55...]
Switching frequency	55HZ[LB120-12GM55...] 45HZ[LB200-12GM55...]
Operating voltage	10-30V DC
Ambient temperature	-25°C to 70°C (248-343K)
Protection level	IP67
Product application	Liquid level detection, transparent object detection, human body detection, etc.

Ultrasonic Sensor

Ultrasonic sensors

Switching output (LB300 series)



Model	LB300-18GM45-E2/E3/E4-V15 LB300-18GM45-E5/E6/E7/E8/E9-V15
Testing scope	30-300mm
Output type	E2/E4(1 switch outputNPN, NO/NC) E3/E5(1 switch outputPNP, NO/NC) E6/E8(2 switch outputsPNP, NO/NC) E7/E9(2 switch outputsNPN, NO/NC)
Blind	0-30mm
Resolution	0.1mm
Repetition accuracy	±0.15% of full scale value
Response time	22ms
Switching frequency	45HZ
Operating voltage	10-30V DC
Ambient temperature	-25°C to 70°C (248-343K)
Protection level	IP67
Product application	Liquid level detection, transparent object detection, human body detection, etc.

Ultrasonic sensors

Switching output (LB500 series)



Model	LB500-18GM45-E2/E3/E4-V15 LB500-18GM45-E5/E6/E7/E8/E9-V15
Testing scope	50-500mm
Output type	E2/E4(1 switch output NPN, NO/NC) E3/E5(1 switch output PNP, NO/NC) E6/E8(2 switch outputs PNP, NO/NC) E7/E9(2 switch outputs NPN, NO/NC)
Blind	0-50mm
Resolution	0.15mm
Repetition accuracy	±0.15% of full scale value
Response time	32ms
Switching frequency	31HZ
Operating voltage	10-30V DC
Ambient temperature	-25°C to 70°C (248-343K)
Protection level	IP67
Product application	Liquid level detection, transparent object detection, human body detection, etc.

Ultrasonic Sensor

Ultrasonic sensors

Analog/RS485/IO-LINK output (LB300 Series)



Model	LB300-18GM45-I/U/IU/IE4/UE4-V15 LB300-18GM45-R4/2EP-IO/IUEP-IO-V15
Testing scope	30-300mm
Output type	I(1 analog current output) / U (1 analog current output) IU(1 analog current output + 1 analog voltage output) IE4(1 analog current output + 1 switch output NPN) UE4(1 analog voltage output + 1 switch output NPN) R4(1 digital output RS485 modbus-rtu) 2EP-IO(2 push pull,support IO-Link output) IUEP-IO(1 analog output analog current or analog voltage output, support IO-Link output)
Blind	0-30mm
Resolution	0.1mm
Repetition accuracy	±0.15% of full scale value
Response time	22ms
Switching frequency	45HZ
Operating voltage	10-30V DC
Ambient temperature	-25°C to 70°C (248-343K)
Protection level	IP67
Product application	Liquid level detection, transparent object detection, human body detection, etc.

Ultrasonic sensors

Analog/RS485/IO-LINK output (LB500 Series)



Model	LB500-18GM45-I/U/IU/IE4/UE4-V15 LB500-18GM45-R4/2EP-IO/IUEP-IO-V15
Testing Scope	50-500mm
Output type	I(1 analog current output) / U (1 analog current output) IU(1 analog current output + 1 analog voltage output) IE4(1 analog current output + 1 switch output NPN) UE4(1 analog voltage output + 1 switch output NPN) R4(1 digital output RS485 modbus-rtu) 2EP-IO(2 push pull,support IO-Link output) IUEP-IO(1 analog output analog current or analog voltage output, support IO-Link output)
Blind	0-50mm
Resolution	0.15mm
Repetition accuracy	±0.15% of full scale value
Response time	32ms
Switching frequency	31HZ
Operating voltage	10-30V DC
Ambient temperature	-25°C to 70°C (248-343K)
Protection level	IP67
Product application	Liquid level detection, transparent object detection, human body detection, etc.

Switching output (LB1000 series)



Model	LB1000-18GM55-E2/E3/E4-V15 LB1000-18GM55-E5/E6/E7/E8/E9-V15
Testing scope	60-1000mm
Output type	E2/E4(1 switch outputNPN, NO/NC) E3/E5(1 switch outputPNP, NO/NC) E6/E8(2 switch outputsPNP, NO/NC) E7/E9(2 switch outputsNPN, NO/NC)
Blind	0-60mm
Resolution	0.17mm
Repetition accuracy	±0.15% of full scale value
Response time	52ms
Switching frequency	19HZ
Operating voltage	10-30V DC
Ambient temperature	-25°C to 70°C (248-343K)
Protection level	IP67
Product application	Liquid level detection, transparent object detection, human body detection, etc.

Analog/RS485/IO-LINKoutput (LB1000 series)



Model	LB1000-18GM55-I/U/IU/IE4/UE4-V15 LB1000-18GM55-R4/2EP-IO/IUEP-IO-V15
Testing scope	60-1000mm
Output type	I(1 analog current output) / U (1 analog current output) IU(1 analog current output + 1 analog voltage output) IE4(1 analog current output + 1 switch output NPN) UE4(1 analog voltage output + 1 switch output NPN) R4(1 digital output RS485 modbus-rtu) 2EP-IO(2 push pull,support IO-Link output) IUEP-IO(1 analog output analog current or analog voltage output, support IO-Link output)
Blind	0-60mm
Resolution	0.17mm
Repetition accuracy	±0.15% of full scale value
Response time	52ms
Switching frequency	19HZ
Operating voltage	10-30V DC
Ambient temperature	-25°C to 70°C (248-343K)
Protection level	IP67
Product application	Liquid level detection, transparent object detection, human body detection, etc.

Ultrasonic Sensor

Ultrasonic sensors

Switching output (LB300 series)



Model	LB300-18GM45A-E2/E3/E4-V15 LB300-18GM45A-E5/E6/E7/E8/E9-V15
Testing scope	30-300mm
Output type	E2/E4(1 switch output NPN, NO/NC) E3/E5(1 switch output PNP, NO/NC) E6/E8(2 switch outputs PNP, NO/NC) E7/E9(2 switch outputs NPN, NO/NC)
Blind	0-30mm
Resolution	0.1mm
Repetition accuracy	±0.15% of full scale value
Response time	22ms
Switching frequency	45HZ
Operating voltage	10-30V DC
Ambient temperature	-25°C to 70°C (248-343K)
Protection level	IP67
Product application	Liquid level detection, transparent object detection, human body detection, etc.

Ultrasonic sensors

Switching output(LB500 series)



Model	LB500-18GM45A-E2/E3/E4-V15 LB500-18GM45A-E5/E6/E7/E8/E9-V15
Testing scope	50-500mm
Output type	E2/E4(1 switch output NPN, NO/NC) E3/E5(1 switch output PNP, NO/NC) E6/E8(2 switch outputs PNP, NO/NC) E7/E9(2 switch outputs NPN, NO/NC)
Blind	0-50mm
Resolution	0.15mm
Repetition accuracy	±0.15% of full scale value
Response time	32ms
Switching frequency	31HZ
Operating voltage	10-30V DC
Ambient temperature	-25°C to 70°C (248-343K)
Protection level	IP67
Product application	Liquid level detection, transparent object detection, human body detection, etc.

Ultrasonic Sensor

Ultrasonic sensors

Analog/RS485/IO-LINK output (LB300 series)



Model	LB300-18GM45A-I/U/IU/IE4/UE4/R4-V15 LB300-18GM55A-2EP-IO/IUEP-IO-V15
Testing scope	30-300mm
Output type	I (1 analog current output) / U (1 analog Voltage output) IU (1 analog current output + 1 analog Voltage output) IE4(1 analog current output + 1 switch output NPN) UE4(1 analog Voltage output + 1 switch output NPN) R4(1 digital output RS485 modbus-rtu) 2EP-IO(2 push pull support IO-Link output) IUEP-IO (1 analog output analog current or analog voltage output, support IO-Link output)
Blind	0-30mm
Resolution	0.1mm
Repetition accuracy	±0.15% of full scale value
Response time	22ms
Switching frequency	45HZ
Operating voltage	10-30V DC
Ambient temperature	-25°C to 70°C (248-343K)
Protection level	IP67
Product application	Liquid level detection, transparent object detection, human body detection, etc.

Ultrasonic sensors

Analog/RS485/IO-LINK output (LB500 series)



Model	LB500-18GM45-1/U/IU/IE4/UE4/R4-V15 LB500-18GM55A-2EP-IO/IUEP-IO-V15
Testing scope	50-500mm
Output type	I (1 analog current output) / U (1 analog Voltage output) IU (1 analog current output + 1 analog Voltage output) IE4(1 analog current output + 1 switch output NPN) UE4(1 analog Voltage output + 1 switch output NPN) R4(1 digital output RS485 modbus-rtu) 2EP-IO(2 push pull support IO-Link output) IUEP-IO (1 analog output analog current or analog voltage output, support IO-Link output)
Blind	0-50mm
Resolution	0.15mm
Repetition accuracy	±0.15% of full scale value
Response time	32ms
Switching frequency	31HZ
Operating voltage	10-30V DC
Ambient temperature	-25°C to 70°C (248-343K)
Protection level	IP67
Product application	Liquid level detection, transparent object detection, human body detection, etc.

Switching output ((LB1000 series)



Model	LB1000-18GM55A-E2/E3/E4-V15 LB1000-18GM55A-E5/E6/E7/E8/E9-V15
Testing scope	60-1000mm
Output type	E2/E4(1 switch output NPN, NO/NC) E3/E5(1 switch output PNP, NO/NC) E6/E8(2 switch outputs PNP, NO/NC) E7/E9(2 switch outputs NPN, NO/NC)
Blind	0-60mm
Resolution	0.17mm
Repetition accuracy	±0.15% of full scale value
Response time	52ms
Switching frequency	19HZ
Operating voltage	10-30V DC
Ambient temperature	-25°C to 70°C (248-343K)
Protection level	IP67
Product application	Liquid level detection, transparent object detection, human body detection, etc.

Analog/RS485/IO-LINK output (LB1000 series)



Model	LB1000-18GM55-1/U/IU/IE4/UE4-V15 LB1000-18GM55-R4/2EP-IO/IUEP-IO-V15
Testing scope	60-1000mm
Output type	I (1 analog current output) / U (1 analog Voltage output) IU (1 analog current output + 1 analog Voltage output) IE4(1 analog current output + 1 switch output NPN) UE4(1 analog Voltage output + 1 switch output NPN) R4(1 digital output RS485 modbus-rtu) 2EP-IO(2 push pull support IO-Link output) IUEP-IO (1 analog output analog current or analog voltage output, support IO-Link output)
Blind	0-60mm
Resolution	0.17mm
Repetition accuracy	±0.15% of full scale value
Response time	52ms
Switching frequency	19HZ
Operating voltage	10-30V DC
Ambient temperature	-25°C to 70°C (248-343K)
Protection level	IP67
Product application	Liquid level detection, transparent object detection, human body detection, etc.

Ultrasonic Sensor

Ultrasonic sensors

Switching output (LB2000 series)



Model	LB2000-30GM60-E2/E3/E4-V15 LB2000-30GM60-E5/E6/E7/E8/E9-V15
Testing scope	100-2000mm
Output type	E2/E4(1 switch output NPN, NO/NC) E3/E5(1 switch output PNP, NO/NC) E6/E8(2 switch outputs PNP, NO/NC) E7/E9(2 switch outputs NPN, NO/NC)
Blind	0-100mm
Resolution	0.17mm
Repetition accuracy	±0.15% of full scale value
Response time	82ms
Switching frequency	10HZ
Operating voltage	10-30V DC
Ambient temperature	-25°C to 70°C (248-343K)
Protection level	IP67
Product application	Liquid level detection, transparent object detection, human body detection, etc.

Ultrasonic sensors

Switching output (LB4000 series)



Model	LB4000-30GM60-E2/E3/E4-V15 LB4000-30GM60-E5/E6/E7/E8/E9-V15
Testing scope	200-4000mm
Output type	E2/E4(1 switch output NPN, NO/NC) E3/E5(1 switch output PNP, NO/NC) E6/E8(2 switch outputs PNP, NO/NC) E7/E9(2 switch outputs NPN, NO/NC)
Blind	0-200mm
Resolution	0.17-1.5mm
Repetition accuracy	±0.15% of full scale value
Response time	162ms
Switching frequency	5HZ
Operating voltage	10-30V DC
Ambient temperature	-25°C to 70°C (248-343K)
Protection level	IP67
Product application	Liquid level detection, transparent object detection, human body detection, etc.

Ultrasonic Sensor

Ultrasonic sensors

Analog/RS485 output (LB2000 series)



Model	LB2000-30GM60-1/U/IU/IE4/E5/UE4-V15 LB2000-30GM60-UE5/R4-V15
Testing scope	100-2000mm
Output type	I (1 analog current output) / U (1 analog Voltage output) IU (1 analog current output + 1 analog Voltage output) IE4(1 analog current output + 1 switch output NPN) UE4(1 analog Voltage output + 1 switch output NPN) R4(1 digital output RS485 modbus-rtu) 2EP-IO(2 push pull support IO-Link output) UIEP-IO (1 analog output analog current or analog voltage output, support IO-Link output)
Blind	0-100mm
Resolution	0.17mm
Repetition accuracy	±0.15% of full scale value
Response time	82ms
Switching frequency	10HZ
Operating voltage	10-30V DC
Ambient temperature	-25°C to 70°C (248-343K)
Protection level	IP67
Product application	Liquid level detection, transparent object detection, human body detection, etc.

Ultrasonic sensors

Analog/RS485 output (LB4000 series)



Model	LB4000-30GM60-/U/U/IE4/E5/UE4-V15 LB4000-30GM60-/U/U/IE4/E5/UE4-V15
Testing scope	200-4000mm
Output type	I (1 analog current output) / U (1 analog Voltage output) IU (1 analog current output + 1 analog Voltage output) IE4(1 analog current output + 1 switch output NPN) UE4(1 analog Voltage output + 1 switch output NPN) R4(1 digital output RS485 modbus-rtu) 2EP-IO(2 push pull support IO-Link output) UIEP-IO (1 analog output analog current or analog voltage output, support IO-Link output)
Blind	0-200mm
Resolution	0.17-1.5mm
Repetition accuracy	±0.15% of full scale value
Response time	162ms
Switching frequency	5HZ
Operating voltage	10-30V DC
Ambient temperature	-25°C to 70°C (248-343K)
Protection level	IP67
Product application	Liquid level detection, transparent object detection, human body detection, etc.

Switching output (LB6000 series)



Model	LB6000-30GM70-E2/E3/E4-V15 LB6000-30GM70-E5/E6/E7/E8/E9-V15
Testing scope	350-6000mm
Output type	E2/E4(1 switch output NPN, NO/NC) E3/E5(1 switch output PNP, NO/NC) E6/E8(2 switch outputs PNP, NO/NC) E7/E9(2 switch outputs NPN, NO/NC)
Blind	0-350mm
Resolution	0.17-2.5mm
Repetition accuracy	±0.15% of full scale value
Response time	232ms
Switching frequency	4HZ
Operating voltage	10-30V DC
Ambient temperature	-25°C to 70°C (248-343K)
Protection level	IP67
Product application	Liquid level detection, transparent object detection, human body detection, etc.

Analog/RS485 output (LB6000 series)



Model	LB6000-30GM60-1/U/IU/IE4/E5/UE4-V15 LB6000-30GM60-UE5/R4-V15
Testing scope	350-6000mm
Output type	I (1 analog current output) / U (1 analog Voltage output) IU (1 analog current output + 1 analog Voltage output) IE4(1 analog current output + 1 switch output NPN) IE5(1 analog current output + 1 switch output PNP) UE4(1 analog Voltage output + 1 switch output NPN) UE5(1 analog voltage output + 1 switch output PNP) R4(1 digital output RS485 modbus-rtu)
Blind	0-350mm
Resolution	0.17-2.5mm
Repetition accuracy	±0.15% of full scale value
Response time	232ms
Switching frequency	4HZ
Operating voltage	10-30V DC
Ambient temperature	-25°C to 70°C (248-343K)
Protection level	IP67
Product application	Liquid level detection, transparent object detection, human body detection, etc.

Ultrasonic Sensor

Ultrasonic sensors

Single and dual sheet detection (LDA series)



Model	LDA-18GM55-200-3E1/3E2 LDA-18GM55-200-3E3/3E4
Testing scope	20-60mm
Output type	3E1/3E2(3-way switch output NPN,NO/NC) 3E3/3E4(3-way switch output PNP,NO/NC)
Indicator light	Green light indication: single sheet detected, yellow light indication: no target (air) Red light indication: double sheet detected
Material	Brass bushing, nickel plated, plastic parts Transducer: glass filled epoxy resin
Maximum angular deviation	±45° to the vertical plane
Operating voltage	10-30V DC
Ambient temperature	-25-70°C (248-343K)
Protection level	IP67
Scope of work	<1mm thick metal laminates and films, stickers, labels on top of substrate materials >0.01mm paper, PCB boards, silicon wafers
Product application	Can be used for paper, metal plates, adhesive-backed films, PCB circuit board inspection, etc.

Ultrasonic sensors

Dual sheet detection (LDA series)



Model	LDA-30GM55-100-3E1/3E2 LDA-30GM55-100-3E3/3E4
Testing scope	20-100mm
Output type	3E1/3E2(3-way switch output NPN,NO/NC) 3E3/3E4(3-way switch output PNP,NO/NC)
Indicator light	Green light indication: single sheet detected, yellow light indication: no target (air) Red light indication: double sheet detected
Material	Brass bushing, nickel plated, plastic parts Transducer: glass filled epoxy resin
Maximum angular deviation	±45° to the vertical plane
Operating voltage	10-30V DC
Ambient temperature	-25-70°C (248-343K)
Protection level	IP67
Scope of work	<3mm thick metal plate
Product application	Can be used for paper, metal plates, adhesive-backed films, PCB circuit board inspection, etc.

Pressure Sensor



Pressure sensor

High precision digital display pressure gauge



Model	NP-01P(High pressure type) NP-01C(Low pressure type)
Rated pressure range	-0.101~1.000Mpa[High pressure type] -101.3~101.3Kpa[Low pressure type]
Set pressure range	-0.100~1.000Mpa[High pressure type] -101.0~101.0Kpa[Low pressure type]
Maximum pressure resistance	1.5Mpa[High pressure type] / 500Kpa[High pressure type]
Applicable gases	Non-corrosive gas, non-combustible gas
Supply voltage	12-24V DC±10%
Current consumption	45mA or less (no load)
Output mode	NPN/PNP open collector
Display accuracy	±1%F.S (Operating temperature 25±10°C)
Repetition accuracy	±0.2%F.S
Reaction time	2.0ms,50ms,100ms, 250ms,500ms,2000ms (Optional)
Communication function	-
Usage environment	0~50°C (No condensation, no ice)
Protection level	IP40/IP65
Interface pipe diameter	Inner thread: M5 Outer thread: R1/8
Product application	Adsorption confirmation of electronic parts, total pressure confirmation, air leak detection
Model	NP-10/20P(High pressure type) NP-10/20C(low pressure type)
Rated pressure range	-0.101~1.000Mpa -101.3~101.3Kpa
Set pressure range	-0.100~1.000Mpa -101.0~101.0Kpa
Maximum pressure resistance	1.5Mpa[High pressure type] / 500Kpa[High pressure type]
Applicable gases	Non-corrosive gas, non-combustible gas
Supply voltage	12-24V DC±10%
Current consumption	45mA or less (no load)
Output mode	NPN/PNP open collector
Display accuracy	±1%F.S (Operating temperature 25±10°C)
Repetition accuracy	±0.2%F.S
Reaction time	2.0ms,50ms,100ms, 250ms,500ms,2000ms (Optional)
Communication function	-
Usage environment	0~50°C (No condensation, no ice)
Protection level	IP40/IP65
Interface pipe diameter	Inner thread: M5 Outer thread: R1/8
Product application	Adsorption confirmation of electronic parts, total pressure confirmation, air leak detection

Pressure Sensor

Pressure sensor

High precision digital display pressure gauge



Model	NP-15/25P(High pressure type) NP-15/25C(Low pressure type)
Rated pressure range	-0.101~1.000Mpa[High pressure type] -101.3~101.3Kpa[Low pressure type]
Set pressure range	-0.100~1.000Mpa[High pressure type] -101.0~101.0Kpa[Low pressure type]
Maximum pressure resistance	1.5Mpa[High pressure type] / 500Kpa[High pressure type]
Applicable gases	Non-corrosive gas, non-combustible gas
Supply voltage	12-24V DC±10%
Current consumption	45mA or less (no load)
Output mode	NPN/PNP open collector
Display accuracy	±1%F.S (Operating temperature 25±10°C)
Repetition accuracy	±0.2%F.S
Reaction time	2.0ms,50ms,100ms, 250ms,500ms,2000ms (Optional)
Communication function	Yes
Usage environment	0~50°C (No condensation, no ice)
Protection level	IP40/IP65
Interface pipe diameter	Inner thread: M5 outer thread: R1/8
Product application	Absorption confirmation of electronic parts, total pressure confirmation, air leak detection

Label Sensor



Label sensor Photoelectric



Label sensor Capacitive



Model	EU2100N/P	Model	EU1000
Standard assays	Non-transparent objects	Standard assays	Both transparent and non-transparent detection
Output mode	NPN (normally open + normally closed) or PNP (normally open + normally closed)	Output mode	NPN (normally open + normally closed) or PNP (normally open + normally closed)
Slot width	2mm	Slot width	0.7mm
Response frequency	2KHz	Response frequency	5KHz
Light source	Infrared light-emitting diode (940nm)	Light source	Infrared light-emitting diode (940nm)
Operating voltage	12-24V DC±10%	Operating voltage	12-24V DC±10%
Ambient temperature	Working: -25°C~+60°C, storage -30°C~80°C (no freezing)	Ambient temperature	Working: -25°C~+60°C, storage -30°C~80°C (no freezing)
Protection level	IP65-IEC	Protection level	IP65-IEC
Material	Aluminum metal housing	Material	Aluminum oxide (black)
Product application	Non-transparent label detection, seam, presence or absence detection, etc.	Product application	Non-transparent label detection, seam, presence or absence detection, etc.

Laser Distance Sensor



Laser long distance sensor



Model	LE-TLS-01C-A1/A2/A3/A4
Control output	Support NPN/PNP; voltage, current analog output; RS485 output 0-1m Adjustable
Adjustable range	1.5 mm+d 0.5%
Detection accuracy	10-30V DC ($\pm 10\%$)
Supply voltage	120mW
Maximum power	M12 Waterproof connector, lead
Connection type	IP65
Protection level	Natural objects
Measuring objects	$\geq 4ms$
Output time	Red Laser
Light source	2.5ns
Pulse duration	658nm
Wave length	Detection of fast-moving objects, detection of the thickness, length, width and position of the plate, etc.
Product application	

Model	LE-TLS-05C-B1/B2/B3/B4
Control output	Support NPN/PNP; voltage, current analog output; RS485 output 0-5m Adjustable
Adjustable range	1.5 mm+d 0.5%
Detection accuracy	10-30V DC ($\pm 10\%$)
Supply voltage	120mW
Maximum power	M12 Waterproof connector, lead
Connection type	IP65
Protection level	Natural objects
Measuring objects	$\geq 4ms$
Output time	Red Laser
Light source	2.5ns
Pulse duration	658nm
Wave length	Detection of fast-moving objects, detection of the thickness, length, width and position of the plate, etc.
Product application	

Laser Distance Sensor

Laser long distance sensor



Model	LE-TLS-10C-C1/C2/C3/C4	LE-TLS-20C-D1/D2/D3/D4
Control output	Support NPN/PNP; voltage, current analog output; RS485 output	Support NPN/PNP; voltage, current analog output; RS485 output 0-20m Adjustable
Adjustable range	0-10m Adjustable	1.5 mm+d 0.5%
Detection accuracy	1.5 mm+d 0.5%	10-30V DC ($\pm 10\%$)
Supply voltage	10-30V DC ($\pm 10\%$)	120mW
Maximum power	120mW	M12 Waterproof connector, lead
Connection type	M12 Waterproof connector, lead	IP65
Protection level	Natural objects	Natural objects
Measuring objects	$\geq 4ms$	$\geq 4ms$
Output time	Red Laser	Red Laser
Light source	2.5ns	2.5ns
Pulse duration	658nm	658nm
Wave length	Detection of fast-moving objects, detection of the thickness, length, width and position of the plate, etc.	Detection of fast-moving objects, detection of the thickness, length, width and position of the plate, etc.
Product application		

Lidar sensors



Model	LE-TLS-30C-E1/E2/E3/E4	Model	LE-M10
Control output	Support NPN/PNP; voltage, current analog output; RS485 output	Maximumrange	20/40m
Adjustable range	0-1m Adjustable	Precision	$\pm 2cm$
Detection accuracy	1.5 mm+d 0.5%	Scanning angle	300°
Supply voltage	10-30V DC ($\pm 10\%$)	Scanning frequency	25 laps/sec
Maximum power	120mW	Response time	40 milliseconds
Connection type	M12 Waterproof connector, lead	Output method	USB/Ethernet
Protection level	IP65	Supply voltage	DC 9-30 volts
Measuring objects	Natural objects	Waterproof and dustproof level	IP65
Output time	$\geq 4ms$	Laser type	Infrared 905nm wavelength, safety type I laser, no need to do special protection
Light source	Red Laser	Dimension	62mm*62mm*80mm
Pulse duration	2.5ns	Anti-ambient light interference	30000Lux
Wave length	658nm	Product application	Lidar integrated object scanning detection and data transmission function, can be mounted on mobile vehicles or fixed machine position, occupying little space, easy to install, maintain and dismantle.
Product application	Detection of fast-moving objects, detection of the thickness, length, width and position of the plate, etc.		

Magnetic Sensor



D series magnetic sensor
Electronic magnetic switch



Model	D-A93	D-Z73	D-C73
Induction switch form	No contact point	No contact point	No contact point
Sensing sensitivity	40-800 Gauss	40-800 Gauss	40-800 Gauss
Supply voltage	10V~28VDC	10V~28VDC	10V~28VDC
Maximum switching current	2.5mA~100mA	2.5mA~100mA	2.5mA~100mA
Maximum contact capacitance	2.8WMax.	2.8WMax.	2.8WMax.
Maximum switching frequency	1000Hz	1000Hz	1000Hz
Impact resistance	50G	50G	50G
Vibration resistant	9G	9G	9G
Protection circuit	Power reverse polarity protection, surge absorption protection	Power reverse polarity protection, surge absorption protection	Power reverse polarity protection, surge absorption protection
Operat temperature	-10°C~70°C	-10°C~70°C	-10°C~70°C
Protection level	-General type: IP64 Waterproof type: IP68	-General type: IP64 Waterproof type: IP68	-General type: IP64 Waterproof type: IP68
Indicator light	Red LED	Red LED	Red LED
Cable wires	2.8\$3C, gray oil resistant PVC	2.8\$3C, gray oil resistant PVC	2.8\$3C, gray oil resistant PVC
Product application	The number and mounting position are determined by the condition of the control cylinder and the need for detection signals	The number and mounting position are determined by the condition of the control cylinder and the need for detection signals	The number and mounting position are determined by the condition of the control cylinder and the need for detection signals

Magnetic Sensor

D series magnetic sensor
Electronic magnetic switch



Model	D-M9B	D-M9N	D-M9P
Induction switch form	No contact point	No contact point	No contact point
Sensing sensitivity	40-800 Gauss	40-800 Gauss	40-800 Gauss
Supply voltage	10V~28VDC	10V~28VDC	10V~28VDC
Maximum switching current	2.5mA~100mA	2.5mA~100mA	2.5mA~100mA
Maximum contact capacitance	2.8WMax.	2.8WMax.	2.8WMax.
Maximum switching frequency	1000Hz	1000Hz	1000Hz
Impact resistance	50G	50G	50G
Vibration resistant	9G	9G	9G
Protection circuit	Power reverse polarity protection, surge absorption protection	Power reverse polarity protection, surge absorption protection	Power reverse polarity protection, surge absorption protection
Operat temperature	-10°C~70°C	-10°C~70°C	-10°C~70°C
Protection level	-General type: IP64 Waterproof type: IP68	-General type: IP64 Waterproof type: IP68	-General type: IP64 Waterproof type: IP68
Indicator light	Red LED	Red LED	Red LED
Cable wires	2.8\$3C, gray oil resistant PVC	2.8\$3C, gray oil resistant PVC	2.8\$3C, gray oil resistant PVC
Product application	The number and mounting position are determined by the condition of the control cylinder and the need for detection signals	The number and mounting position are determined by the condition of the control cylinder and the need for detection signals	The number and mounting position are determined by the condition of the control cylinder and the need for detection signals



Model	D-F8B	D-F8N	D-9D
Induction switch form	No contact point	No contact point	No contact point
Sensing sensitivity	40-800 Gauss	40-800 Gauss	40-800 Gauss
Supply voltage	10V~28VDC	10V~28VDC	10V~28VDC
Maximum switching current	2.5mA~100mA	2.5mA~100mA	2.5mA~100mA
Maximum contact capacitance	2.8WMax.	2.8WMax.	2.8WMax.
Maximum switching frequency	1000Hz	1000Hz	1000Hz
Impact resistance	50G	50G	50G
Vibration resistant	9G	9G	9G
Protection circuit	Power reverse polarity protection, surge absorption protection	Power reverse polarity protection, surge absorption protection	Power reverse polarity protection, surge absorption protection
Operat temperature	-10°C~70°C	-10°C~70°C	-10°C~70°C
Protection level	-General type: IP64 Waterproof type: IP68	-General type: IP64 Waterproof type: IP68	-General type: IP64 Waterproof type: IP68
Indicator light	Red LED	Red LED	Red LED
Cable wires	2.8\$3C, gray oil resistant PVC	2.8\$3C, gray oil resistant PVC	2.8\$3C, gray oil resistant PVC
Product application	The number and mounting position are determined by the condition of the control cylinder and the need for detection signals	The number and mounting position are determined by the condition of the control cylinder and the need for detection signals	The number and mounting position are determined by the condition of the control cylinder and the need for detection signals

Magnetic Sensor

D series magnetic sensor

Electronic magnetic switch



Model	D-8D	DMSM	DMSH
Induction switch form	No contact point	No contact point	No contact point
Sensing sensitivity	40-800 Gauss	40-800 Gauss	40-800 Gauss
Supply voltage	10V~28VDC	10V~28VDC	10V~28VDC
Maximum switching current	2.5mA~100mA	2.5mA~100mA	2.5mA~100mA
Maximum contact capacitance	2.8WMax.	2.8WMax.	2.8WMax.
Maximum switching frequency	1000Hz	1000Hz	1000Hz
Impact resistance	50G	50G	50G
Vibration resistant	9G	9G	9G
Protection circuit	Power reverse polarity protection, surge absorption protection	Power reverse polarity protection, surge absorption protection	Power reverse polarity protection, surge absorption protection
Operat temperature	-10°C~70°C	-10°C~70°C	-10°C~70°C
Protection level	-General type: IP64 Waterproof type: IP68	-General type: IP64 Waterproof type: IP68	-General type: IP64 Waterproof type: IP68
Indicator light	Red LED	Red LED	Red LED
Cable wires	2.8\$3C, gray oil resistant PVC	2.8\$3C, gray oil resistant PVC	2.8\$3C, gray oil resistant PVC
Product application	The number and mounting position are determined by the condition of the control cylinder and the need for detection signals	The number and mounting position are determined by the condition of the control cylinder and the need for detection signals	The number and mounting position are determined by the condition of the control cylinder and the need for detection signals



Model	DMSG	DMSE	DMSJ
Induction switch form	No contact point	No contact point	No contact point
Sensing sensitivity	40-800 Gauss	40-800 Gauss	40-800 Gauss
Supply voltage	10V~28VDC	10V~28VDC	10V~28VDC
Maximum switching current	2.5mA~100mA	2.5mA~100mA	2.5mA~100mA
Maximum contact capacitance	2.8WMax.	2.8WMax.	2.8WMax.
Maximum switching frequency	1000Hz	1000Hz	1000Hz
Impact resistance	50G	50G	50G
Vibration resistant	9G	9G	9G
Protection circuit	Power reverse polarity protection, surge absorption protection	Power reverse polarity protection, surge absorption protection	Power reverse polarity protection, surge absorption protection
Operat temperature	-10°C~70°C	-10°C~70°C	-10°C~70°C
Protection level	-General type: IP64 Waterproof type: IP68	-General type: IP64 Waterproof type: IP68	-General type: IP64 Waterproof type: IP68
Indicator light	Red LED	Red LED	Red LED
Cable wire	2.8\$3C, gray oil resistant PVC	2.8\$3C, gray oil resistant PVC	2.8\$3C, gray oil resistant PVC
Product application	The number and mounting position are determined by the condition of the control cylinder and the need for detection signals	The number and mounting position are determined by the condition of the control cylinder and the need for detection signals	The number and mounting position are determined by the condition of the control cylinder and the need for detection signals

Magnetic Sensor

C series magnetic sensor

Spring loaded magnetic switches



Model	CMSJ	CMSG	CMSE
Induction switch form	With contact point	With contact point	With contact point
Sensing sensitivity	60-800 Gauss	60-800 Gauss	60-800 Gauss
Supply voltage	10V~240V AC/DC	10V~240V AC/DC	10V~240V AC/DC
Maximum switching current	100mA	100mA	100mA
Maximum contact capacitance	10W Max.	10W Max.	10W Max.
Maximum switching frequency	200Hz	200Hz	200Hz
Impact resistance	50G	50G	50G
Vibration resistant	9G	9G	9G
Protection circuit	-	-	-
Operat temperature	-10°C~70°C	-10°C~70°C	-10°C~70°C
Protection level	IP64	IP64	IP64
Indicat orlight	Red LED	Red LED	Red LED
Cable wires	2.8\$3C, gray oil resistant PVC	2.8\$3C, gray oil resistant PVC	2.8\$3C, gray oil resistant PVC
Product application	The number and mounting position are determined by the condition of the control cylinder and the need for detection signals	The number and mounting position are determined by the condition of the control cylinder and the need for detection signals	The number and mounting position are determined by the condition of the control cylinder and the need for detection signals



Model	CS1-F	CS1-U	3045
Induction switch form	With contact point	With contact point	With contact point
Sensing sensitivity	60-800 Gauss	60-800 Gauss	60-800 Gauss
Supply voltage	10V~240V AC/DC	10V~240V AC/DC	10V~240V AC/DC
Maximum switching current	100mA	100mA	100mA
Maximum contact capacitance	10W Max.	10W Max.	10W Max.
Maximum switching frequency	200Hz	200Hz	200Hz
Impact resistance	50G	50G	50G
Vibration resistant	9G	9G	9G
Protection circuit	-	-	-
Operat temperature	-10°C~70°C	-10°C~70°C	-10°C~70°C
Protection level	IP64	IP64	IP64
Indicator light	Red LED	Red LED	Red LED
Cable wire	2.8\$3C, gray oil resistant PVC	2.8\$3C, gray oil resistant PVC	2.8\$3C, gray oil resistant PVC
Product application	The number and mounting position are determined by the condition of the control cylinder and the need for detection signals	The number and mounting position are determined by the condition of the control cylinder and the need for detection signals	The number and mounting position are determined by the condition of the control cylinder and the need for detection signals