

Proximity Sensors



- ◉ Highly sensitive and intense accuracy, durability up to 8 years
- ◉ Various housing materials and sizes available
- ◉ IP67, excellent water and oil resistance

Most materials can be detected

Adopting both inductive and capacitive principle design, compatible with detection of metal and non-metal objects
The product can detect the presence or absence of most objects such as metal, plastic, glass, wood, and liquids.



Glass



Metal



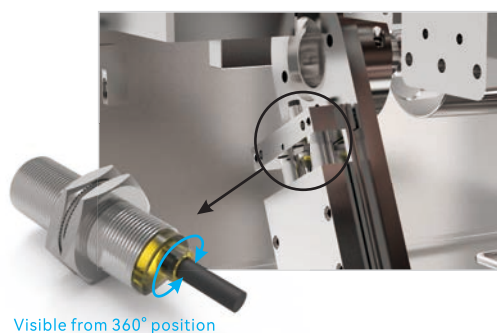
Liquid



Wood

Equipped with all around 360° signal indicator

No need to worry about the direction of the indicator when installing, more convenient to install and adjust.



Visible from 360° position

8%SN

High temperature compensation

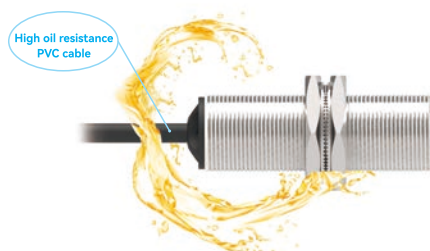
Unique adjustable design and excellent temperature characteristics

Adopting self-developed temperature compensation algorithm, realizing 8%SN of ultra-high temperature compensation
Self-developed debugging software realizing the flexible adjustment of the product output mode and detection distance

Excellent oil resistance*

Conventional products: cable deterioration due to oil chipping
Upgraded products: with highly oil-resistant PVC cables, greatly enhancing the performance of oil resistance.

* All proximity sensors can be customized



High oil resistance PVC cable



Ultra-compact (TX series)

Ultra-compact design for stable operation in small spaces
Sensors with built-in amplifier, shielded construction, can be embedded in objects for detection, easy installation

Fiber Optic

Slot Sensors

Photoelectric

Laser

Proximity

Displacement

Magnetic

Contact

Area

Ultrasonic

AI Image

Code Readers

Vibration

Temperature

RFID

Safety door lock

Pressure Switch

Communication

Accessories

Guidance

Inductive sensors

Standard distance

Extended distance

Long distance

Square

Mini square

Mini-cylindrical

Short-body

Ring-type

Metal face

Temperature resistance type

IP69K high protection

Anti-Slag

Analog output

DC 2 wires

Capacitive sensors

Cylindrical

Correction resistance type

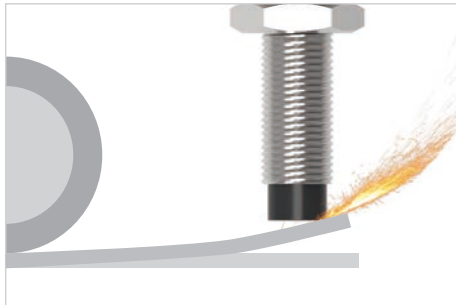
Flat type

Level detection

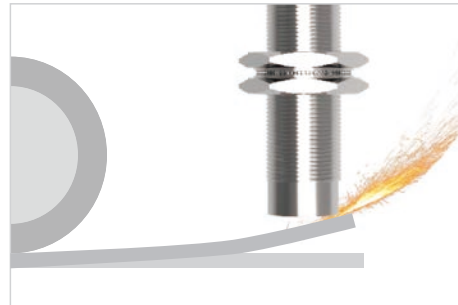
Full-metal sensing surface(TMf/TMN series)*

Anti-collision and scratch metal sensing head is not easily damaged by friction, collision with the workpiece, or cleaning with metal brushes. Compared with general resin sensing heads, it reduces unplanned downtime due to friction and collision, and has better durability.

* Full-metal sensors



Failure after collision



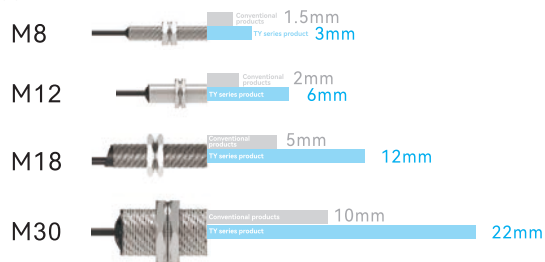
Less likely to fail after collision

Long sensing distance(TYF/N series)

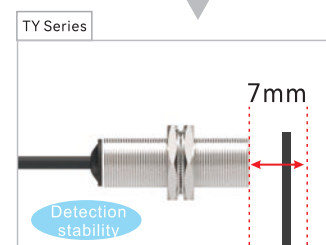
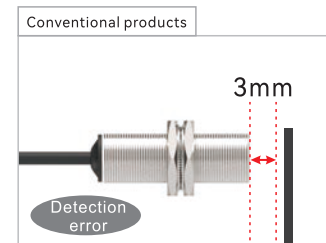
1.2 times longer detection distance than conventional products

2. Even if the gripper is deflected due to vibration of the equipment, it has less effect on the detection

Flush



Non-flush



Inductive sensors

Standard distance
Extended distance
Long distance
Square
Mini square
Mini-cylindrical
Short-body
Ring-type
Metal face
Temperature resistance type
IP69K high protection
Anti-Slag
Analog output
DC 2 wires

Capacitive sensors

Cylindrical
Correction resistance type
Flat type
Level detection



Standard Distance Type (TR series)

- Classical cylindrical appearance, high stability
- Adaptive to different occasions, top-notch quality, low price
- Customizable cables & connectors as requested

P.E-19



Extended Distance Type (TL series)

- sensing distance is double that of standard products
- Save installing space effectively
- Customizable cables & connectors at your request

P.E-23



Long Distance Type (TY series)

- Ultra-long sensing distance, up to 40mm
- Avoid any attenuation caused by the material of detected objects
- Ip67 high protection degree

P.E-27



Square Type (TQ series)

- Kidney-shaped hole, easy installation
- Up to 8 mm sensing distance
- Plastic housing, protection degree IP67

P.E-31



Mini-square Type (TE series)

- 6mm (extra small), built-in amplifier
- 8mm sensing distance, the longest sensing distance in the industry
- Sensing surface on the top and at the front to suit your needs

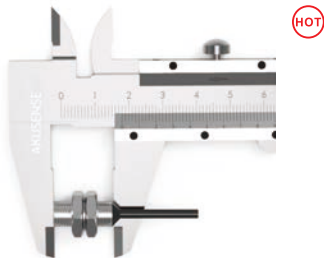
P.E-33



Mini-cylindrical Type (TX series)

- Highly stabilized detection in narrow space
- Shield type, can be embedded in detecting objects
- $\Phi 3, \Phi 4, M4, M5$, various models for you to choose from

P.E-36



Short-body Type (TSS/TS series)

- Compared with similar sensors, the length can be shortened 1/3
- 18mm body length can perfectly fit into narrow space
- Epoxy resin fillings exhibit excellent shock resistance

P.E-39



Ring-type (TH series)

- 2mm thickness, the thinnest one in the industry
- Stainless steel housing; strong impact resistance
- Flexible sensitivity adjustment with knobs

P.E-44



Metal Face Type (TM series)

- Stainless steel face, with great impact resistance
- 1000PSI/High pressure resistance
- Wonderful thermal shock and chemical resistance

P.E-46



Temperature Resistance Type (TG/TZ series)

- Extended temperature varies from -40°C to $+220^{\circ}\text{C}$
- Degree of protection up to IP67
- Reverse polarity protection and surge protection

P.E-49



IP69K High Protection (TP series)

- AISI 316L stainless steel housing
- IP67-IP68-IP69K protection level
- Can be used in the food and beverage field

P.E-52



Anti-welding Slag (TW series)

- Factor 1, no attenuation
- Teflon coating
- Interference suppression and high magnetic resistance

P.E-55

Fiber Optic
Slot Sensors
Photoelectric
Laser
Proximity
Displacement
Magnetic
Contact
Area
Ultrasonic
AI Image
Code Readers
Vibration
Temperature
RFID
Safety door lock
Pressure Switch
Communication
Accessories

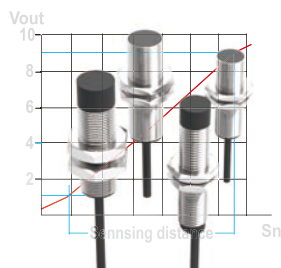
Guidance

Inductive sensors

Standard distance
Extended distance
Long distance
Square
Mini square
Mini-cylindrical
Short-body
Ring-type
Metal face
Temperature resistance type
IP69K high protection
Anti-Slag
Analog output
DC 2 wires

Capacitive sensors

Cylindrical
Correction resistanc type
Flat type
Level detection

**Analog Output Type (TA series)**

- First choice of short distance and non-contact detection
- Analog output 0~20mA and 0~10V
- Output PNP-Analog

P.E-57

**DC 2-wire Type (TD series)**

- Nonpolarized specifications, easy wiring method
- With smallest sensing surface M8
- 10~30V DC and 10~60V DC, two voltages

P.E-59

**Cylindrical Type (CK series)**

- Detect metal, plastic and liquid, etc
- With reverse polarity, short circuit, surge and many other protection functions
- Metal and plastic housings are available

P.E-62

**Corrosion Resistance Type (CWF series)**

- Up to 20 turns sensitivity adjustment
- Teflon coatings ensure superior corrosion resistance
- Widely used in detection of metals, water, oil, glasses, plastic and water, etc

P.E-64

**Flat Type (CQ series)**

- 7mm of thickness only for saving space
- Enjoy stability; comparable to world famous brands
- Offer different kinds of sensing distance of 5mm, 6mm, 7mm and 10mm, etc

P.E-66

**Liquid Level Detection (CE series)**

- Free from influence of liquid color in pipeline
- Suitable for pipeline diameter from $\Phi 8$ mm to $\Phi 11$ mm, $\Phi 12$ mm to $\Phi 26$ mm
- With built-in amplifier to save installing space

P.E-70

Fiber Optic

Slot Sensors

Photoelectric

Laser

Proximity

Displacement

Magnetic

Contact

Area

Ultrasonic

AI Image

Code Readers

Vibration

Temperature

RFID

Safety door lock

Pressure Switch

Communication

Accessories

Guidance

Inductive sensors

Standard distance

Extended distance

Long distance

Square

Mini square

Mini-cylindrical

Short-body

Ring-type

Metal face

Temperature

resistance type

IP69K high protection

Anti-Slag

Analog output

DC 2 wires

Capacitive sensors

Cylindrical

Correction

resistance type

Flat type

Level detection

Capacitive Sensors

T ① ② ③ — ④ ⑤ ⑥ — ⑦

No.	Classification	Explanation of model numbers
①	Series	A: Analog Output D: DC 2-wire E: Mini Square G: High-temperature Resistant H: Ring-type L: Extended Distance M: Metal Face Q: Square R: Standard Distance S: Short body P: IP69K SS: Super Short Body W: Anti-welding Slag X: Mini-cylindrical Y: Long Distance Z: Low Temperature Resistant
②	Mounting	F: Flush N: Non-flush
③	Specifications	08: M8 12: M12 18: M18 30: M30
④	Sensing Distance	1.5: 1.5mm 02: 2mm 05: 5mm 08: 8mm
⑤	Output Type	N: NPN P: PNP H: DC 2-Wire
⑥	Output Status	O: Normally open C: Normally closed A: Current output V: Voltage output
⑦	Connection	Null: Pre-wired type E1: M8 3 pin connector E2: M12 4 pin connector

Fiber Optic
Slot Sensors
Photoelectric
Laser
Proximity
Displacement
Magnetic
Contact
Area
Ultrasonic
AI Image
Code Readers
Vibration
Temperature
RFID
Safety door lock
Pressure Switch
Communication
Accessories

Capacitive Sensors

C ① ② ③ — ④ ⑤ ⑥ — ⑦

No.	Classification	Explanation of model numbers
①	Series	E: Liquid Level Detection K: Plastic Shells Q: Flat Type W: Corrosion resistant
②	Mounting	F: Flush N: Non-flush
③	Specifications	08: M8 12: M12 18: M18 30: M30
④	Sensing Distance	1.5: 1.5mm 02: 2mm 05: 5mm 08: 8mm
⑤	Output Type	N: NPN P: PNP H: DC 2-Wire
⑥	Output Status	O: Normally open C: Normally closed
⑦	Connection	Null: Pre-wired type E1: M8 3 pin connector E2: M12 4 pin connector

Guidance

Inductive sensors
Standard distance
Extended distance
Long distance
Square
Mini square
Mini-cylindrical
Short-body
Ring-type
Metal face
Temperature resistance type
IP69K high protection
Anti-Slag
Analog output
DC 2 wires

Capacitive sensors
Cylindrical
Correction resistance type
Flat type
Level detection

Standard Range-TR series

Pre-wired



Basic Features	Working principle	Inductive sensor									
	Housing	Cylindrical									
	Installation type	Flush					Non-flush				
	Sensing distance	1.5mm ± 10%		2.0mm ± 10%	5.0mm ± 10%	10mm ± 10%	2.0mm ± 10%		4.0mm ± 10%	8.0mm ± 10%	15mm ± 10%
	Thread size	φ6.5	M8	M12	M18	M30	φ6.5	M8	M12	M18	M30
	Sensing surface material	PBT									
	Detected objects	Metal									
	Indicator	Operation Status: LED									
	Sensing range adjustment	None									
Electrical data	Switching output	No: normally open, NC: normally closed									
	Output mode	NPN or PNP Open Collector									
	External input	None									
	Switching frequency	2.0kHz	1.5kHz	1.0kHz		0.3kHz	2.0kHz	1.0kHz	0.8kHz	0.5kHz	0.15kHz
	Repeatability	1%							5%	1%	
	Hysteresis	≤15%									
	Operating Voltage	10~30V DC±10%									
	Current consumption	≤10mA								≤20mA	
	Residual Voltage	≤1.5V	≤2.0V				≤1.5V	≤2.0V			
	Load current	150mA									
	Leakage current	<0.01mA									
	Insulation resistance	≥50MQ with 500V DC between power terminals and enclosure									
	Dielectric strength	1,000 VAC, 50/60 Hz for 1 min between power terminals and enclosure									
	Vibration resistance	10 to 55 Hz, 1.5 mm double amplitude, 2 hours for each X, Y, and Z directions									
	Environmental conditions	Circuit Protection	Short circuit protection								
Operating Temperature		-25~+75℃									
Operating Humidity		35~85%									
Enclosure rating		IP67									
Mechanical data	Connection type	2m/3-core Cable									
	Dimension	Ø6.5x45.5mm	M8x46.7mm	M12x49.7mm	M18x63.0mm	M30x55.6mm	Ø6.5x45.0mm	M8x50.7mm	M12x54.6mm	M18x63.1mm	M30x58.5mm
	Material	Stainless steel+PBT		Copper–nickel alloy+PBT			Stainless steel+PBT		Copper–nickel alloy+PBT		
	Weight	0.009kg	0.012kg	0.05kg	0.08kg	0.12kg	0.009kg	0.012kg	0.05kg	0.08kg	0.12kg
	Accessories	–	Nut M8x1	Nut M12x1	Nut M18x1	Nut M30x1.5	–	Nut M8x1	Nut M12x1	Nut M18x1	Nut M30x1.5
Model	NPN NO	TRF6.5-1.5[NIO]	TRF08-1.5[NIO]	TRF12-02[NIO]	TRF18-05[NIO]	TRF30-10[NIO]	TRN6.5-02[NIO]	TRN08-02[NIO]	TRN12-04[NIO]	TRN18-08[NIO]	TRN30-15[NIO]
	Others	[NIO]:NPN Normally open		[NOC]:NPN Normally closed		[PIO]:PNP Normally open		[PIC]:PNP Normally closed			

Capacitive sensors

Cylindrical
Correction
resistance type
Flat type
Level detection



Basic Features	Working principle	Inductive sensor							
	Housing	Cylindrical							
	Installation type	Flush				Non-flush			
	Sensing distance	1.5mm ± 10%	2.0mm ± 10%	5.0mm ± 10%	10mm ± 10%	2.0mm ± 10%	4.0mm ± 10%	8.0mm ± 10%	15mm ± 10%
	Thread size	M8	M12	M18	M30	M8	M12	M18	M30
	Sensing surface material	PBT							
	Detected objects	Metal							
	Indicator	Operation Status: LED							
	Sensing range adjustment	None							
Electrical data	Switching output	No: normally open, NC: normally closed							
	Output mode	NPN or PNP Open Collector							
	External input	None							
	Switching frequency	1.5kHz	2.0kHz	1.0kHz	0.3kHz	1.0kHz	0.5kHz	0.15kHz	
	Repeatability	1%							
	Hysteresis	≤ 15%							
	Operating Voltage	10~30V DC ± 10%							
	Current consumption	≤ 10mA							
	Residual Voltage	≤ 1.5V							
	Load current	150mA							
	Leakage current	< 0.01mA							
	Insulation resistance	≥ 50MΩ with 500V DC between power terminals and enclosure							
	Dielectric strength	1,000 VAC, 50/60 Hz for 1 min between power terminals and enclosure							
	Vibration resistance	10 to 55 Hz, 1.5 mm double amplitude, 2 hours for each X, Y, and Z directions							
	Circuit Protection	Short circuit protection							
Environmental conditions	Operating Temperature	-25~+75°C							
	Operating Humidity	35~85%							
	Enclosure rating	IP67							
Mechanical data	Connection type	M8/3-pin Connector	M12/4-pin Connector			M8/3-pin Connector	M12/4-pin Connector		
	Dimension	M8x60.0mm	M12x68.0mm	M18x82.0mm	M30x78.0mm	M8x60.0mm	M12x67.0mm	M18x78.0mm	M30x78.0mm
	Material	Stainless steel+PBT	Copper-nickel alloy+PBT			Stainless steel+PBT	Copper-nickel alloy+PBT		
	Weight	0.012kg	0.05kg	0.08kg	0.12kg	0.012kg	0.05kg	0.08kg	0.012kg
	Accessories	Nut M8x1	Nut M12x1	Nut M18x1	Nut M30x1.5	Nut M8x1	Nut M12x1	Nut M18x1	Nut M30x1.5
Model	NPN NO	TRF08-1.5[NO]-E1	TRF12-02[NO]-E2	TRF18-05[NO]-E2	TRF30-10[NO]-E2	TRN08-02[NO]-E1	TRN12-04[NO]-E2	TRN18-08[NO]-E2	TRN30-15[NO]-E2
	Others	[NO]: NPN Normally open [NC]: NPN Normally closed [PO]: PNP Normally open [PC]: PNP Normally closed							

Fiber Optic

Slot Sensors

Photoelectric

Laser

Proximity

Displacement

Magnetic

Contact

Area

Ultrasonic

AI Image

Code Readers

Vibration

Temperature

RFID

Safety door lock

Pressure Switch

Communication

Accessories

Guidance

Inductive sensors

Standard distance

Extended distance

Long distance

Square

Mini square

Mini-cylindrical

Short-body

Ring-type

Metal face

Temperature

resistance type

IP69K high protection

Anti-Slag

Analog output

DC 2 wires

Capacitive sensors

Cylindrical

Correction

resistance type

Flat type

Level detection

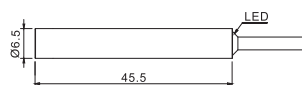
Standard Distance-TR Series

Dimensions- Pre-wired Type

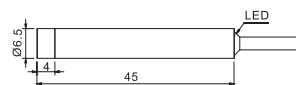
Unit:mm

φ6.5

TRF6.5-1.5□□

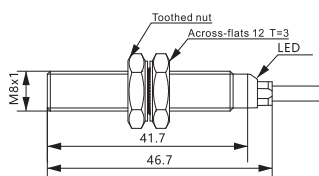


TRN6.5-02□□

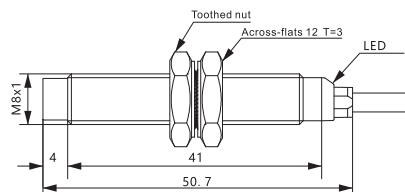


M8

TRF08-1.5□□

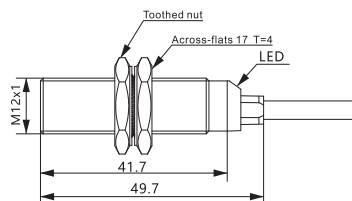


TRN08-02□□

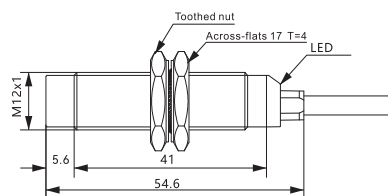


M12

TRF12-02□□

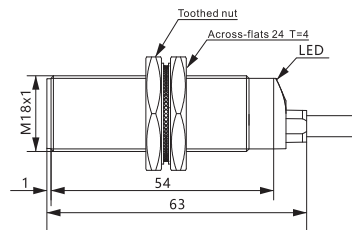


TRN12-04□□

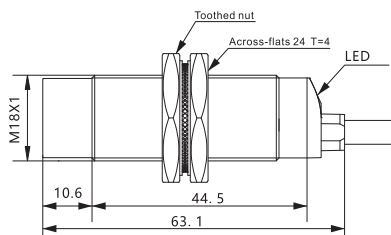


M18

TRF18-05□□

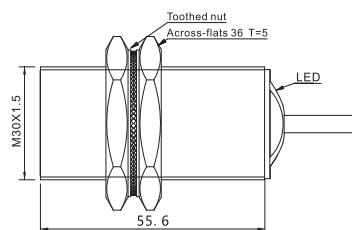


TRN18-08□□

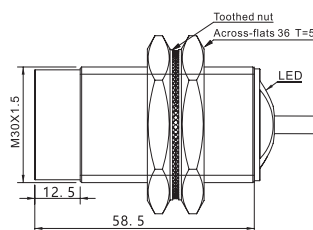


M30

TRF30-10□□



TRN30-15□□

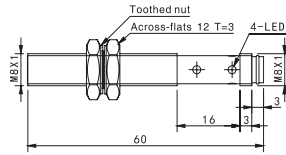


Unit:mm

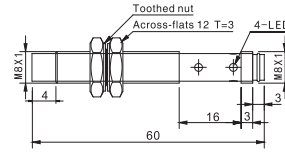
Dimensions- Connector Type

M8

TRF08-1.5□□-E1

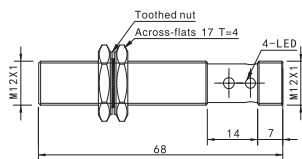


TRN08-02□□-E1

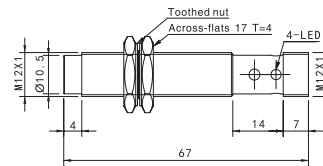


M12

TRF12-02□□-E2

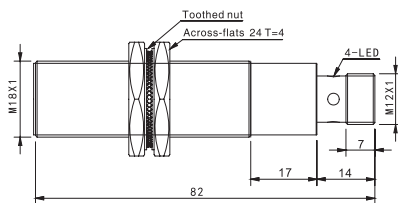


TRN12-04□□-E2

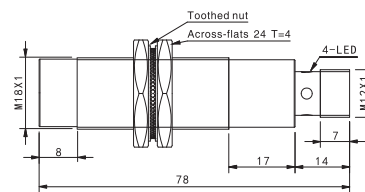


M18

TRF18-05□□-E2

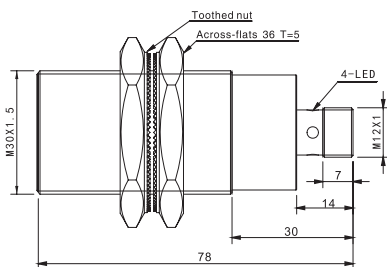


TRN18-08□□-E2

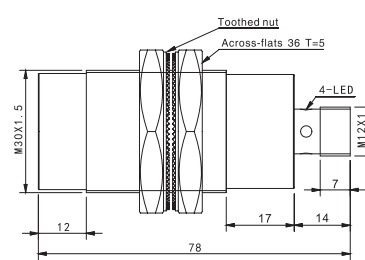


M30

TRF30-10□□-E2



TRN30-15□□-E2



Fiber Optic

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Photoelectric

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Proximity

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Communication

Accessories

Guidance

Inductive sensors

Standard distance

Extended distance

Long distance

Square

Mini square

Mini-cylindrical

Short-body

Ring-type

Metal face

Temperature

resistance type

IP69K high protection

Anti-Slag

Analog output

DC 2 wires

Capacitive sensors

Cylindrical

Correction

resistance type

Flat type

Level detection

Extended Distance-TL Series

Pre-wired Type



Basic Features	Working principle	Inductive sensor										
	Housing	Cylindrical										
	Installation type	Flush					Non-flush					
	Sensing distance	2.0mm ± 10%		4.0mm ± 10%	8.0mm ± 10%	16mm ± 10%	4.0mm ± 10%		8.0mm ± 10%	16mm ± 10%	25mm ± 10%	
	Thread size	φ6.5	M8	M12	M18	M30	φ6.5	M8	M12	M18	M30	
	Sensing surface material	PBT										
	Detected objects	Metal										
	Indicator	Operation Status: LED										
	Sensing range adjustment	None										
Electrical data	Switching output	No: normally open, NC: normally closed										
	Output mode	NPN or PNP Open Collector										
	External input	None										
	Switching frequency	2.0kHz	1.0kHz	0.3kHz	0.5kHz	0.15kHz	1.0kHz	0.8kHz	0.5kHz	0.15kHz	0.1kHz	
	Repeatability	1%		5%	1%			5%		1%		
	Hysteresis	≤15%										
	Operating Voltage	10~30V DC±10%										
	Current consumption	≤10mA										
	Residual Voltage	≤1.5V	≤2.0V				≤1.5V	≤2.0V				
	Load current	150mA										
	Leakage current	<0.01mA										
	Insulation resistance	≥50MΩ with 500V DC between power terminals and enclosure										
	Dielectric strength	1,000 VAC, 50/60 Hz for 1 min between power terminals and enclosure										<40V
	Vibration resistance	10 to 55 Hz, 1.5 mm double amplitude, 2 hours for each X, Y, and Z directions										
	Environmental conditions	Circuit Protection	Short circuit protection									
Operating Temperature		-25~+75℃										
Operating Humidity		35~85%										
Enclosure rating		IP67										
Mechanical data	Connection type	2m/3-core Cable										
	Dimension	Ø6.5x45.5mm	M8x46.7mm	M12x49.7mm	M18x63.0mm	M30x55.6mm	Ø6.5x45.0mm	M8x50.7mm	M12x54.6mm	M18x63.1mm	M30x58.5mm	
	Material	Stainless steel+PBT		Copper–nickel alloy+PBT			Stainless steel+PBT		Copper–nickel alloy+PBT			
	Weight	0.009kg	0.012kg	0.05kg	0.08kg	0.12kg	0.009kg	0.012kg	0.05kg	0.08kg	0.12kg	
	Accessories	–	Nut M8x1	Nut M12x1	Nut M18x1	Nut M30x1.5	–	Nut M8x1	Nut M12x1	Nut M18x1	Nut M30x1.5	
Model	NPN NO	TLF6.5-02[NO]	TLF08-02[NO]	TLF12-04[NO]	TLF18-08[NO]	TLF30-16[NO]	TLN6.5-04[NO]	TLN08-04[NO]	TLN12-08[NO]	TLN18-16[NO]	TLN30-25[NO]	
	Others	[NO]:NPN Normally open		[NC]:NPN Normally closed		[PO]:PNP Normally open		[PIC]:PNP Normally closed				

Capacitive sensors

Cylindrical
Correction
resistance type
Flat type
Level detection



Basic Features	Working principle	Inductive sensor							
	Housing	Cylindrical							
	Installation type	Flush				Non-flush			
	Sensing distance	2.0mm ± 10%	4.0mm ± 10%	8.0mm ± 10%	16mm ± 10%	4.0mm ± 10%	8.0mm ± 10%	16mm ± 10%	25mm ± 10%
	Thread size	M8	M12	M18	M30	M8	M12	M18	M30
	Sensing surface material	PBT							
	Detected objects	Metal							
	Indicator	Operation Status: LED							
	Sensing range adjustment	None							
Electrical data	Switching output	No: normally open, NC: normally closed							
	Output mode	NPN or PNP Open Collector							
	External input	None							
	Switching frequency	1kHz	0.5kHz	0.15kHz	0.8kHz	0.5kHz	0.15kHz	0.1kHz	
	Repeatability	1%							
	Hysteresis	≤15%							
	Operating Voltage	10~30V DC±10%							
	Current consumption	≤10mA							
	Residual Voltage	≤1.5V							
	Load current	150mA							
	Leakage current	<0.01mA							
	Insulation resistance	≥50MΩ with 500V DC between power terminals and enclosure							
	Dielectric strength	1,000 VAC, 50/60 Hz for 1 min between power terminals and enclosure						<40V	
	Vibration resistance	10 to 55 Hz, 1.5 mm double amplitude, 2 hours for each X, Y, and Z directions							
	Environmental conditions	Circuit Protection	Short circuit protection						
Operating Temperature		-25~+75℃							
Operating Humidity		35~85%							
Enclosure rating		IP67							
Mechanical data	Connection type	M8/3-pin Connector	M12/4-pin Connector			M8/3-pin Connector	M12/4-pin Connector		
	Dimension	M8x60.0mm	M12x68.0mm	M18x82.0mm	M30x78.0mm	M8x60.0mm	M12x71.0mm	M18x82.0mm	M30x81.0mm
	Material	Stainless steel+PBT	Copper-nickel alloy+PBT			Stainless steel+PBT	Copper-nickel alloy+PBT		
	Weight	0.012kg	0.05kg	0.08kg	0.12kg	0.012kg	0.05kg	0.08kg	0.012kg
	Accessories	Nut M8x1	Nut M12x1	Nut M18x1	Nut M30x1.5	Nut M8x1	Nut M12x1	Nut M18x1	Nut M30x1.5
Model	NPN NO	TLF08-02[NO]-E1	TLF12-04[NO]-E2	TLF18-08[NO]-E2	TLF30-16[NO]-E2	TLN08-04[NO]-E1	TLN12-08[NO]-E2	TLN18-16[NO]-E2	TLN30-25[NO]-E2
	Others	[NO]:NPN Normally open		[NC]:NPN Normally closed		[PO]:PNP Normally open		[PC]:PNP Normally closed	

Fiber Optic

Slot Sensors

Photoelectric

Laser

Proximity

Displacement

Magnetic

Contact

Area

Ultrasonic

AI Image

Code Readers

Vibration

Temperature

RFID

Safety door lock

Pressure Switch

Communication

Accessories

Guidance

Inductive sensors

Standard distance

Extended distance

Long distance

Square

Mini square

Mini-cylindrical

Short-body

Ring-type

Metal face

Temperature

resistance type

IP69K high protection

Anti-Slag

Analog output

DC 2 wires

Capacitive sensors

Cylindrical

Correction

resistance type

Flat type

Level detection

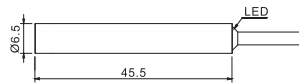
Extended Distance-TL Series

Dimensions-Pre-wired Type

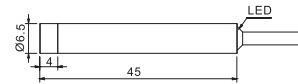
Unit:mm

φ6.5

TLF6.5-02□□

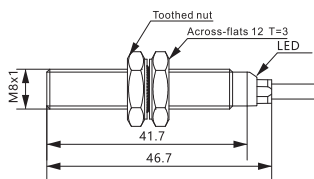


TLN6.5-04□□

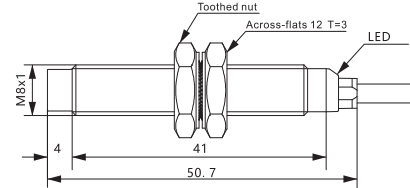


M8

TLF08-02□□

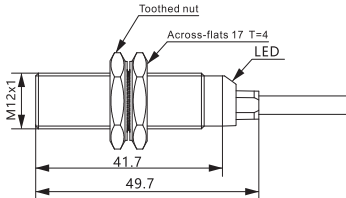


TLN08-04□□

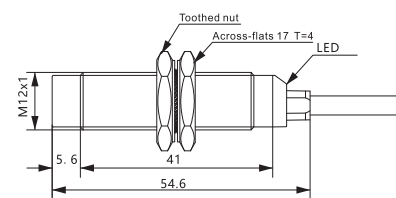


M12

TLF12-04□□

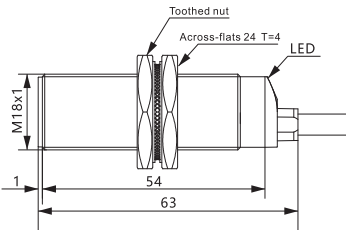


TLN12-08□□

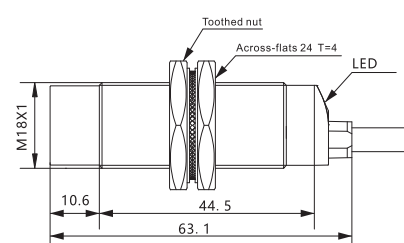


M18

TLF18-08□□

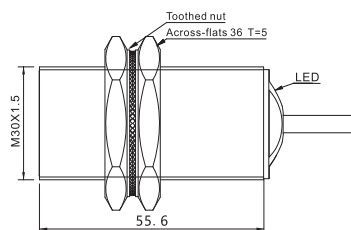


TLN18-16□□

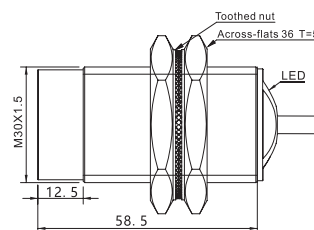


M30

TLF30-16□□



TLN30-25□□

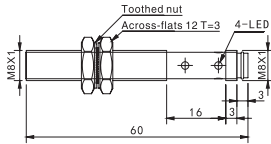


Unit:mm

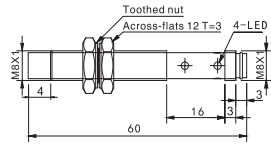
Dimensions- Connector Type

M8

TLF08-02□□-E1

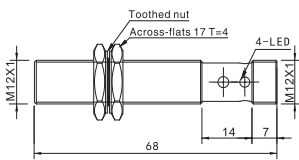


TLN08-04□□-E1

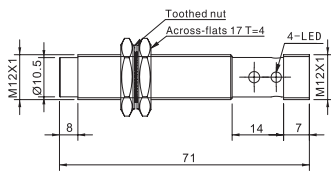


M12

TLF12-04□□-E2

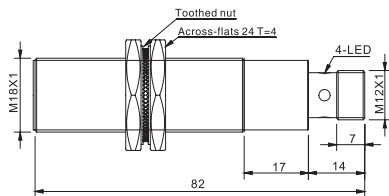


TLN12-08□□-E2

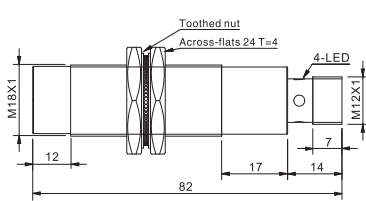


M18

TLF18-08□□-E2

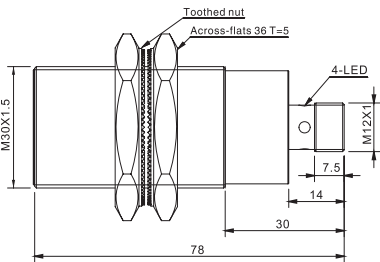


TLN18-16□□-E2

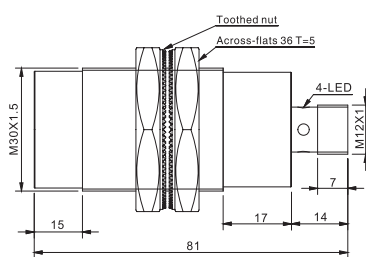


M30

TLF30-16□□-E2



TLN30-25□□-E2



Fiber Optic

Slot Sensors

Photoelectric

Laser

Proximity

Displacement

Magnetic

Contact

Area

Ultrasonic

AI Image

Code Readers

Vibration

Temperature

RFID

Safety door lock

Pressure Switch

Communication

Accessories

Guidance

Inductive sensors

Standard distance

Extended distance

Long distance

Square

Mini square

Mini-cylindrical

Short-body

Ring-type

Metal face

Temperature

resistance type

IP69K high protection

Anti-Slag

Analog output

DC 2 wires

Capacitive sensors

Cylindrical

Correction

resistance type

Flat type

Level detection