

Standard Distance

Pre-wired

	Appearance												
	Shielded		Shielded				Unshielded		Unshielded				
Mounting	Shielded	M8	M12	M18	M30	Unshielded	M8	M12	M18	M30			
Housing size	φ 6.5	1.5mm ± 10%	1.5mm ± 10%	2mm ± 10%	5mm ± 10%	10mm ± 10%	φ 6.5	2mm ± 10%	2mm ± 10%	4mm ± 10%			
Sensing distance										15mm ± 10%			
Housing material	Stainless steel		Nickel copper alloy				Stainless steel		Nickel copper alloy				
Operating voltage	10~30V DC(Ripple < 10%)												
Voltage drop	< 1.5V	< 2.0V				< 1.5V	< 2.0V						
Fiber Optic	Load Current, Max								150mA				
Slot Sensors	Current consumption								< 10mA				
Photoelectric	Leakage current								< 0.01mA				
Laser	Switch frequency								2KHz				
Proximity	Repeat accuracy								< 1.0% (Sr)				
Displacement	Hysteresis								< 15% (Sr)				
Magnetic	Sensing surface material								PBT				
Contact	Operating temperature								-25°C~+75°C				
Area	Protective circuit								Short circuit				
Ultrasonic	Degree of protection								IP67				
Vibration	Model No.								(HOT)				
Temperature	Model No.								(HOT)				
Cables	Model No.								TRF6.5-1.5N _O TRF08-1.5N _O TRF12-02N _O TRF18-05N _O TRF30-10N _O TRN6.5-02N _O TRN08-02N _O TRN12-04N _O TRN18-08N _O TRN30-15N _O				
Tester	Model No.								N _O :NPN Normally open N _C :NPN Normally closed P _O :PNP Normally open P _C :PNP Normally closed				

Connector Type

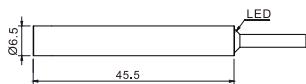
Guidance

	Appearance													
	Shielded				Unshielded									
Mounting	M8	M12	M18	M30	M8	M12	M18	M30						
Housing size	1.5mm ± 10%	2mm ± 10%	5mm ± 10%	10mm ± 10%	2mm ± 10%	4mm ± 10%	8mm ± 10%	15mm ± 10%						
Sensing distance														
Housing material	Stainless steel		Nickel copper alloy				Stainless steel							
Operating voltage	10~30V DC(Ripple < 10%)													
Voltage drop	< 1.5V													
Inductive sensors	Load Current Max													
Standard distance	150mA													
Extended distance	< 10mA													
Long distance	< 0.01mA													
Square	Switch frequency													
Mini square	2KHz													
Mini-cylindrical	1KHz													
Short-body	300Hz													
Ring-type	2KHz													
Metal face	1KHz													
Temperature	300Hz													
Analog output	2KHz													
DC 2 wires	1KHz													
IP69K high protection	300Hz													
Capacitive sensors	Repeat accuracy													
Cylindrical	< 1.0% (Sr)													
Correction resistance type	Hysteresis													
Flat type	< 15% (Sr)													
Level detection	Sensing surface material													
	PBT													
	Operating temperature													
	-25°C~+75°C													
	Protective circuit													
	Short circuit													
	Degree of protection													
	IP67													
	Model No.													
	TRF08-1.5N _O -E1 TRF12-02N _O -E2 TRF18-05N _O -E2 TRF30-10N _O -E2 TRN08-02N _O -E1 TRN12-04N _O -E2 TRN18-08N _O -E2 TRN30-15N _O -E2													
	N _O :NPN Normally open N _C :NPN Normally closed P _O :PNP Normally open P _C :PNP Normally closed													

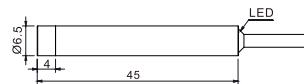
Dimensions- Pre-wired Type (Unit:mm)

φ6.5

TRF6.5-1.5□□

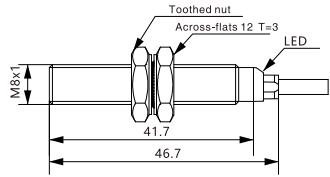


TRN6.5-02□□

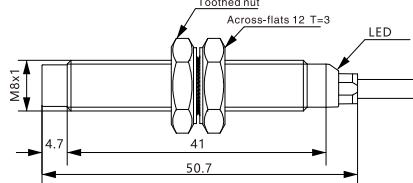


M8

TRF08-1.5□□

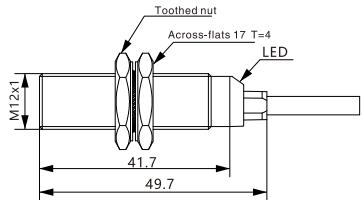


TRN08-02□□

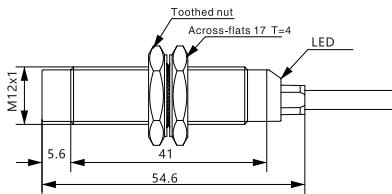


M12

TRF12-02□□

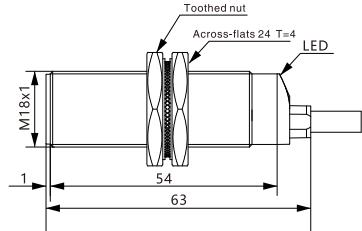


TRN12-04□□

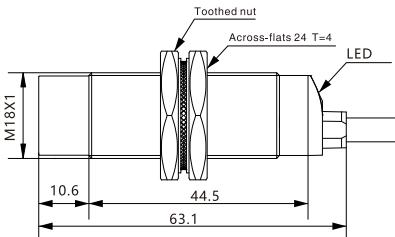


M18

TRF18-05□□

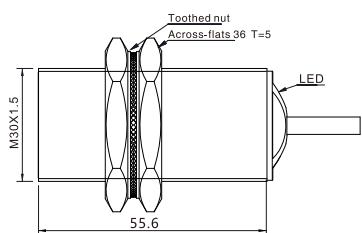


TRN18-08□□

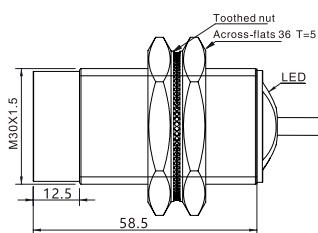


M30

TRF30-10□□



TRN30-15□□



Fiber Optic
Slot Sensors
Photoelectric
Laser
Proximity
Displacement
Magnetic
Contact
Area
Ultrasonic
Vibration
Temperature
Cables
Tester

Guidance

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

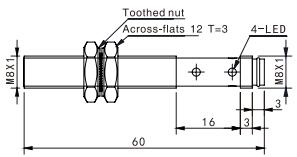
Capacitive sensors
Cylindrical
Correction resistance type
Flat type
Level detection

Standard Distance

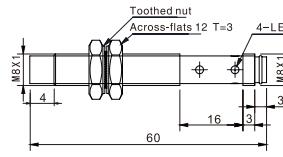
Dimensions- Connector Type (Unit:mm)

M8

TRF08-1.5□□-E1

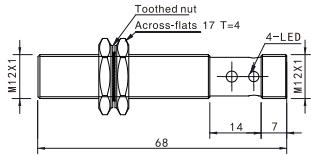


TRN08-02□□-E1

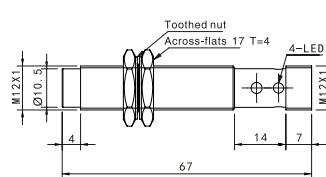


M12

TRF12- 02□□-E2

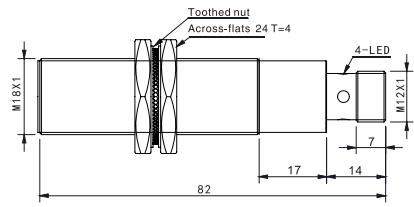


TRN12-04□□-E2

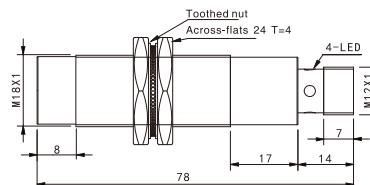


M18

TRF18-05□□-E2

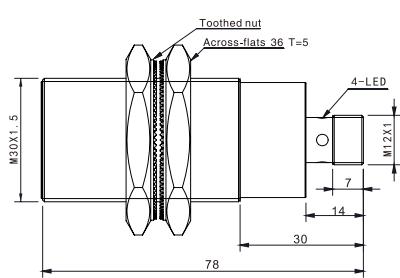


TRN18- 08□□-E2

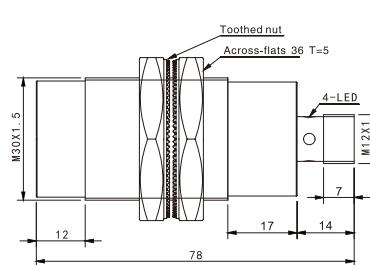


M30

TRF30-10□□-E2



TRN30-15□□-E2



Fiber Optic
Slot Sensors
Photoelectric
Laser
Proximity
Displacement
Magnetic
Contact
Area
Ultrasonic
Vibration
Temperature
Cables
Tester

Guidance

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

Capacitive sensors
Cylindrical
Correction resistance type
Flat type
Level detection