







Standard Distance

Pre-wired

Proximity

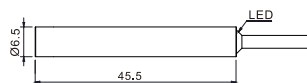
Appearance										
Mounting	Shielded		Shielded			Unshielded		Unshielded		
Housing size	φ 6.5	M8	M12	M18	M30	φ 6.5	M8	M12	M18	M30
Sensing distance	1.5mm ± 10%	1.5mm ± 10%	2mm ± 10%	5mm ± 10%	10mm ± 10%	2mm ± 10%	2mm ± 10%	4mm ± 10%	8mm ± 10%	15mm ± 10%
Housing material	Stainless steel		Nickel copper alloy			Stainless steel		Nickel copper alloy		
Operating voltage	10~30V DC(Ripple < 10%)									
Voltage drop	< 1.5V		< 2.0V			< 1.5V		< 2.0V		
Load Current, Max	150mA									
Current consumption	< 10mA							< 20mA		
Leakage current	< 0.01mA									
Switch frequency	2KHz		1KHz		300Hz	2KHz	1KHz	800Hz	500Hz	150Hz
Repeat accuracy	< 1.0% (Sr)							< 5.0% (Sr)		< 1.0% (Sr)
Hysteresis	< 15% (Sr)					< 15% (Sr)				
Sensing surface material	PBT									
Operating temperature	-25°C~+75°C									
Protective circuit	Short circuit									
Degree of protection	IP67									
Area	<div style="display: flex; justify-content: space-between;"> Model No. NPN Normally open 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] </div>									
Others	<div style="display: flex; justify-content: space-between;"> [NIO]:NPN Normally open [NIC]:NPN Normally closed [PIO]:PNP Normally open [PIC]:PNP Normally closed </div>									

Connector Type

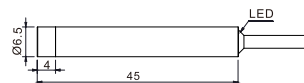
Appearance									
Mounting	Shielded				Unshielded				
Housing size	M8	M12	M18	M30	M8	M12	M18	M30	
Sensing distance	1.5mm ± 10%	2mm ± 10%	5mm ± 10%	10mm ± 10%	2mm ± 10%	4mm ± 10%	8mm ± 10%	15mm ± 10%	
Housing material	Stainless steel	Nickel copper alloy			Stainless steel	Nickel copper alloy			
Operating voltage	10~30V DC(Ripple < 10%)								
Voltage drop	< 1.5V								
Load Current Max	150mA								
Current consumption	< 10mA								
Leakage current	< 0.01mA								
Switch frequency	2KHz		1KHz		300Hz	2KHz	1KHz	500Hz	150Hz
Repeat accuracy	< 1.0% (Sr)								
Hysteresis	< 15% (Sr)								
Sensing surface material	PBT								
Operating temperature	-25°C~+75°C								
Protective circuit	Short circuit								
Degree of protection	IP67								
Area	<div style="display: flex; justify-content: space-between;"> Model No. NPN Normally open TRF08-1.5[NIO]-E1 TRF12-02[NIO]-E2 TRF18-05[NIO]-E2 TRF30-10[NIO]-E2 TRN08-02[NIO]-E1 TRN12-04[NIO]-E2 TRN18-08[NIO]-E2 TRN30-15[NIO]-E2 </div>								
Others	<div style="display: flex; justify-content: space-between;"> [NIO]:NPN Normally open [NIC]:NPN Normally closed [PIO]:PNP Normally open [PIC]:PNP Normally closed </div>								

φ6.5

TRF6.5-1.5□□

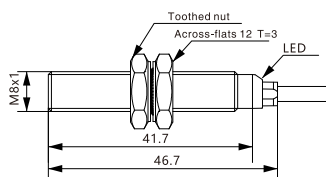


TRN6.5-02□□

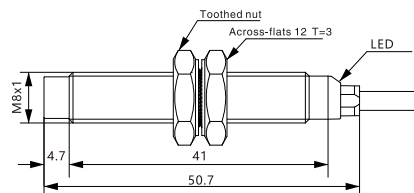


M8

TRF08-1.5□□

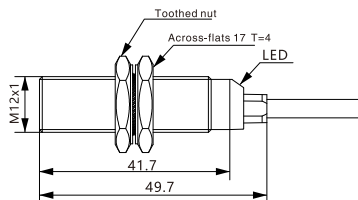


TRN08-02□□

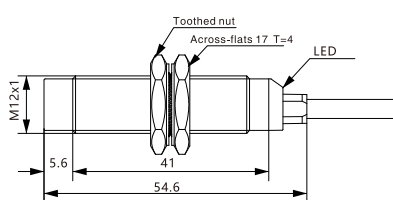


M12

TRF12-02□□

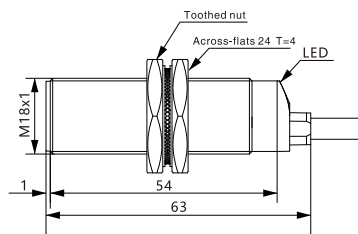


TRN12-04□□

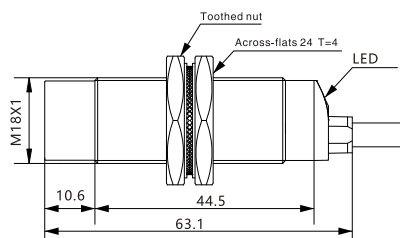


M18

TRF18-05□□

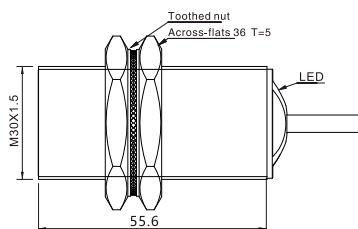


TRN18-08□□

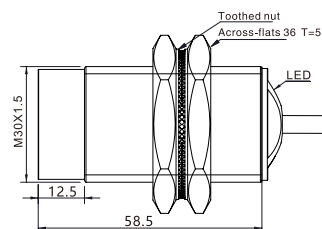


M30

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

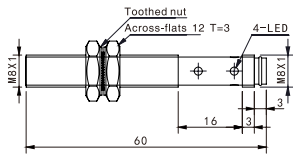
Cylindrical
Correction resistanc type
Flat type
Level detection

Standard Distance

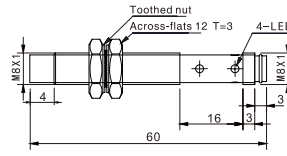
Dimensions- Connector Type (Unit:mm)

M8

TRF08-1.5□□-E1

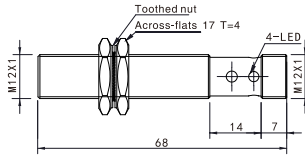


TRN08-02□□-E1

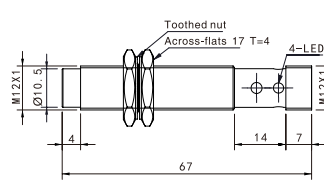


M12

TRF12-02□□-E2

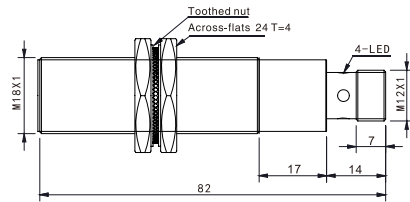


TRN12-04□□-E2

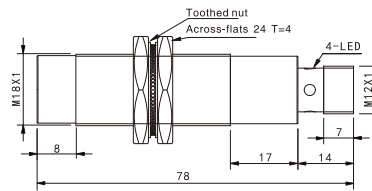


M18

TRF18-05□□-E2

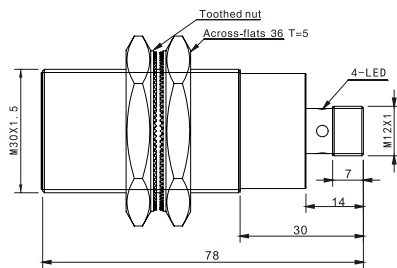


TRN18-08□□-E2

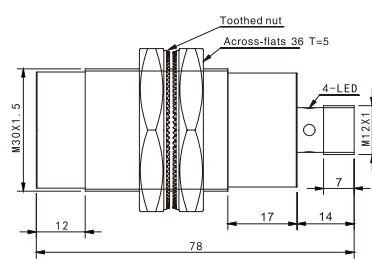


M30

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