

Appearance											
Mounting	Shielded		Shielded			Unshielded		Unshielded			
Size	φ 6.5	M8	M12	M18	M30	φ 6.5	M8	M12	M18	M30	
Sensing distance	2mm ± 10%	2mm ± 10%	4mm ± 10%	8mm ± 10%	16mm ± 10%	4mm ± 10%	4mm ± 10%	8mm ± 10%	16mm ± 10%	25mm ± 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										
Leakage current	< 0.01mA										
Switch frequency	2KHz	1KHz	300Hz	500Hz	150Hz	1KHz	800Hz	500Hz	150Hz	100Hz	
Repeat accuracy	< 1.0%(Sr)		< 5.0%(Sr)		< 1.0%(Sr)		< 5.0%(Sr)		< 1.0%(Sr)		
Hysteresis	< 15%(Sr)										
Sensing surface material	PBT										
Operating temperature	-25°C ~ +75°C										
Circuit Protection	Short circuit										
Degree of protection	IP67										
Model No.	NPN Normally open	TLF6.5-02	TLF08-02	TLF12-04	TLF18-08	TLF30-16	TLN6.5-04	TLN08-04	TLN12-08	TLN18-16	TLN30-25
	Others	[NO]:NPN Normally open		[NC]:NPN Normally closed		[PO]:PNP Normally open		[PC]:PNP Normally closed			

Connector Type




Appearance									
Mounting	Shielded				Unshielded				
Size	M8	M12	M18	M30	M8	M12	M18	M30	
Sensing distance	2mm ± 10%	4mm ± 10%	8mm ± 10%	16mm ± 10%	4mm ± 10%	8mm ± 10%	16mm ± 10%	25mm ± 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	1KHz		500Hz	150Hz	800Hz	500Hz	150Hz	100Hz	
Repeat accuracy	< 1.0%(Sr)								
Hysteresis	< 15%(Sr)								
Sensing surface material	PBT								
Operating temperature	-25°C~+75°C								
Circuit Protection	Short circuit								
Degree of protection	IP67								
Model No.	NPN Normally open	TLF08-02	TLF12-04	TLF18-08	TLF30-16	TLN08-04	TLN12-08	TLN18-16	TLN30-25
	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

Vision

Code Readers

Vibration

Temperature

Accessories

Guidance

Inductive sensors

Standard distance

Extended distance

Long distance

Square

Mini square

Mini-cylindrical

Short-body

Ring-type

Metal face

Temperature

IP69K high protection

Analog output

DC 2 wires

Capacitive sensors

Cylindrical

Correction resistanc type

Flat type

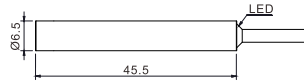
Level detection

Extended Distance

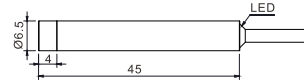
Dimensions-Pre-wired Type (Unit:mm)

 $\phi 6.5$

TLF6.5-02□□

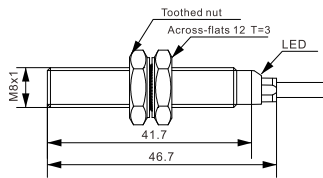


TLN6.5-04□□

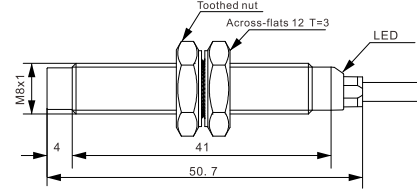


M8

TLF08-02□□

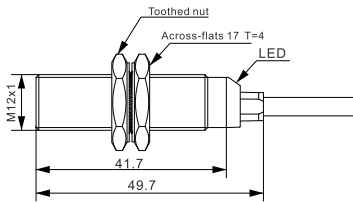


TLN08-04□□

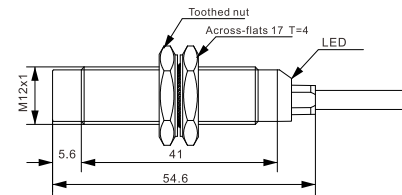


M12

TLF12-04□□

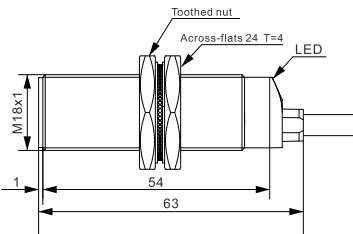


TLN12-08□□

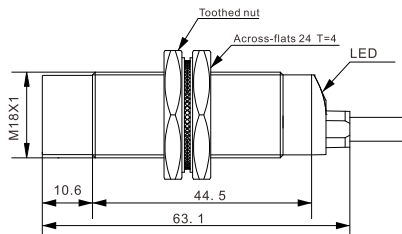


M18

TLF18-08□□

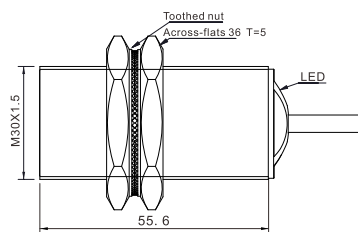


TLN18-16□□

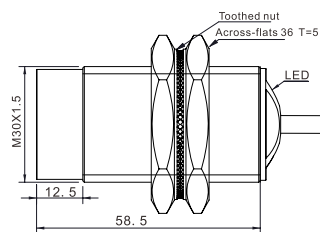


M30

TLF30-16□□



TLN30-25□□



Fiber Optic

Slot Sensors

Photoelectric

Laser

Proximity

Displacement

Magnetic

Contact

Area

Ultrasonic

Vision

Code Readers

Vibration

Temperature

Accessories

Guidance

Inductive sensors

Standard distance

Extended distance

Long distance

Square

Mini square

Mini-cylindrical

Short-body

Ring-type

Metal face

Temperature

IP69K high protection

Analog output

DC 2 wires

Capacitive sensors

Cylindrical

Correction

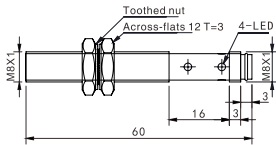
resistance type

Flat type

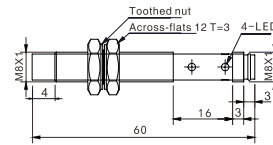
Level detection

M8

TLF08-02□□-E1



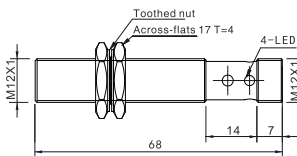
TLN08-04□□-E1



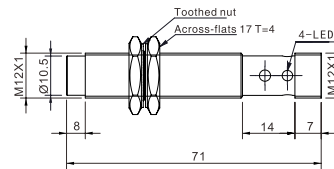
M8 3PIN

M12

TLF12-04□□-E2



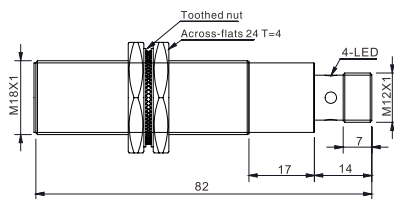
TLN12-08□□-E2



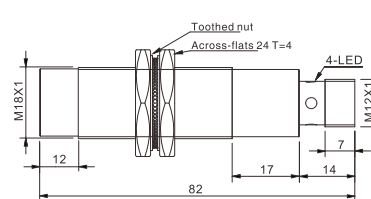
M12 4PIN

M18

TLF18-08□□-E2



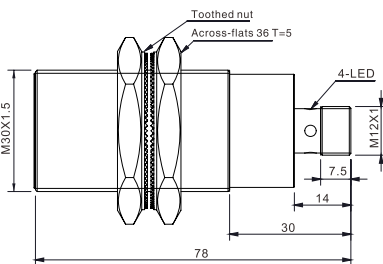
TLN18-16□□-E2



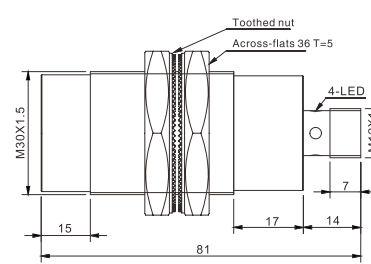
M12 4PIN

M30

TLF30-16□□-E2



TLN30-25□□-E2



M12 4PIN

- Fiber Optic
- Slot Sensors
- Photoelectric
- Laser
- Proximity**
- Displacement
- Magnetic
- Contact
- Area
- Ultrasonic
- Vision
- Code Readers
- Vibration
- Temperature
- Accessories

Guidance

Inductive sensors

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

Capacitive sensors

- Cylindrical
- Correction
- resistance type
- Flat type
- Level detection