







Pre-wired Type

Appearance											
Mounting	Shielded		Shielded			Unshielded		Unshielded			
Housing 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	800Hz	500Hz	150Hz	1KHz	800Hz	300Hz	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										
Protective circuit	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

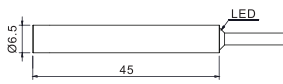
Appearance									
Mounting	Shielded				Unshielded				
Housing size	M8	M12	M18	M30	M8	M12	M18	M30	
Sensing distance	2mm ± 10%	4mm ± 10%	8mm ± 10%	16mm ± 10%	4mm ± 10%	8mm ± 10%	16mm ± 10%	25mm ± 10%	
Housing material	Stainless steel	Nickel copper alloy			Stainless steel	Nickel copper alloy			
Operating voltage	10~30V DC(Ripple < 10%)								
Voltage drop	< 1.5V								
Load Current, Max	150mA								
Current consumption	< 10mA								
Leakage current	< 0.01mA								
Switch frequency	2KHz	1KHz	500Hz	150Hz	1KHz	500Hz	150Hz	100Hz	
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								
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							

Extended Distance

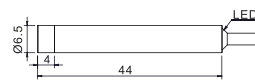
Dimensions-Pre-wired Type (Unit:mm)

φ6.5

TLF6.5-02□□

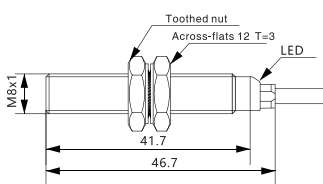


TLN6.5-04□□

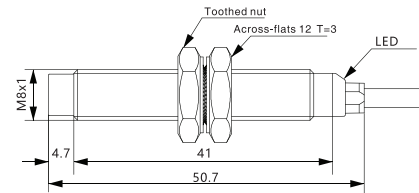


M8

TLF08-02□□

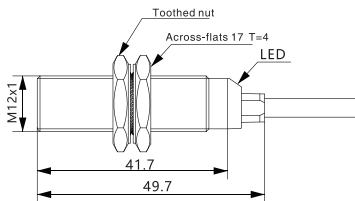


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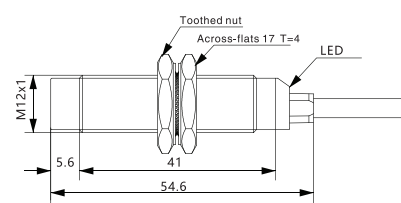


M12

TLF12-04□□

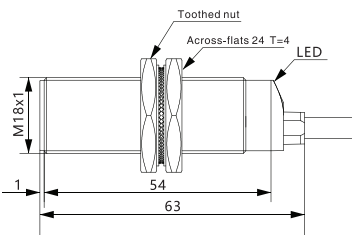


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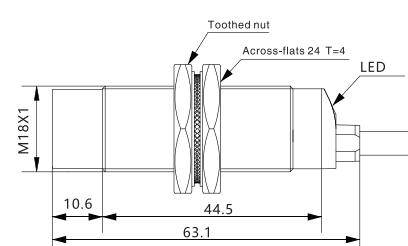


M18

TLF18-08□□

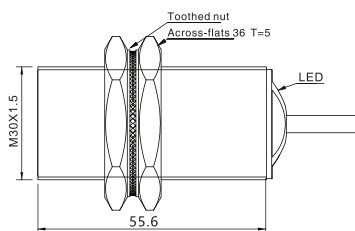


TLN18-16□□

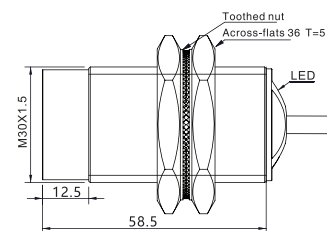


M30

TLF30-16□□



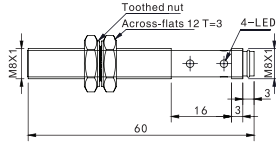
TLN30-25□□



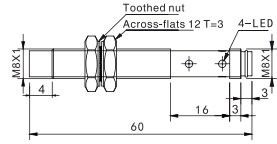
Dimensions- Connector Type (Unit:mm)

M8

TLF08-02□□-E1



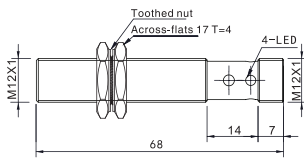
TLN08-04□□-E1



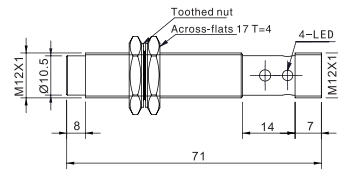
M8 3 Pin

M12

TLF12-04□□-E2



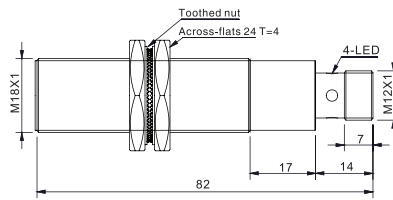
TLN12-08□□-E2



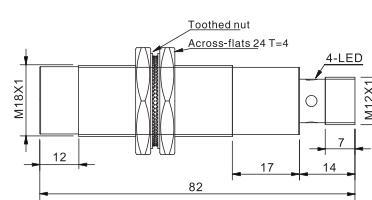
M12 4 Pin

M18

TLF18-08□□-E2



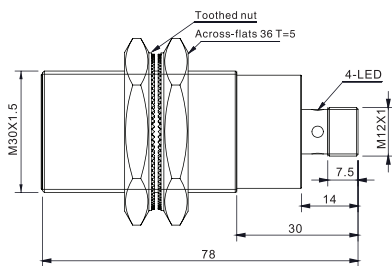
TLN18-16□□-E2



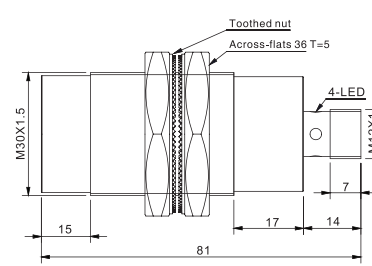
M12 4 Pin

M30

TLF30-16□□-E2



TLN30-25□□-E2



M12 4 Pin