

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.	<table border="0"> <tr> <td>NPN Normally open</td> <td>TLF6.5-02</td><td>TLF08-02</td><td>TLF12-04</td><td>TLF18-08</td><td>TLF30-16</td><td>TLN6.5-04</td><td>TLN08-04</td><td>TLN12-08</td><td>TLN18-16</td><td>TLN30-25</td> </tr> <tr> <td>Others</td> <td>NO</td><td>NO</td><td>NO</td><td>NO</td><td>NO</td><td>NO</td><td>NO</td><td>NO</td><td>NO</td><td>NO</td> </tr> </table>										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	NO	NO	NO	NO	NO	NO	NO	NO	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	NO	NO	NO	NO	NO	NO	NO	NO	NO																						
	NO: NPN Normally open NC: NPN Normally closed PO: PNP Normally open PC: PNP Normally closed																															

Connector Type

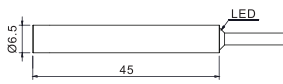
Appearance																										
Mounting	Shielded				Unshielded																					
Housing size	M8	M12	M18	M30	M8	M12	M18	M30																		
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Voltage drop	< 1.5V																									
Load Current, Max	150mA																									
Current consumption	< 10mA																									
Leakage current	< 0.01mA																									
Switch frequency	2KHz	1KHz	500Hz	150Hz	1KHz	500Hz	150Hz	100Hz																		
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Others	NO-E1	NO-E2	NO-E2	NO-E2	NO-E1	NO-E2	NO-E2	NO-E2																		
	NO: NPN Normally open NC: NPN Normally closed PO: PNP Normally open PC: PNP Normally closed																									

Extended Distance

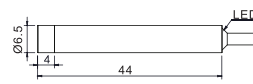
Dimensions-Pre-wired Type (Unit:mm)

φ6.5

TLF6.5-02□□

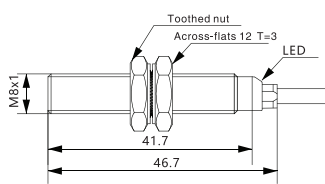


TLN6.5-04□□

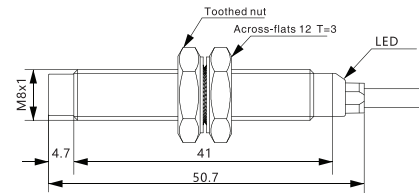


M8

TLF08-02□□

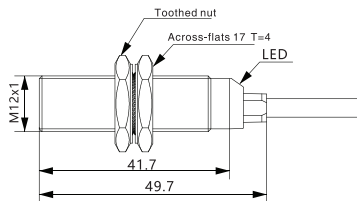


TLN08-04□□

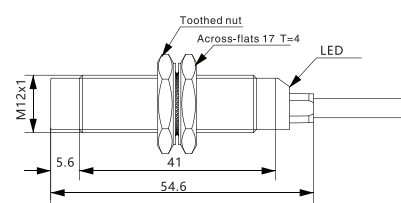


M12

TLF12-04□□

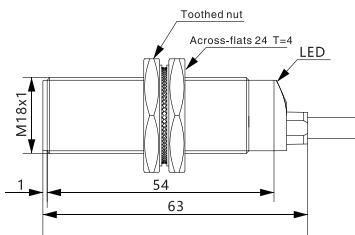


TLN12-08□□

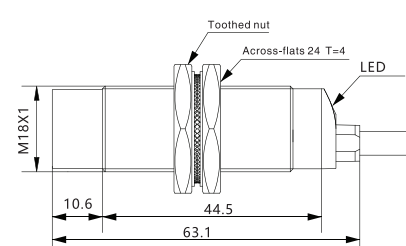


M18

TLF18-08□□

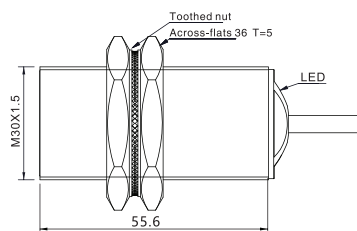


TLN18-16□□

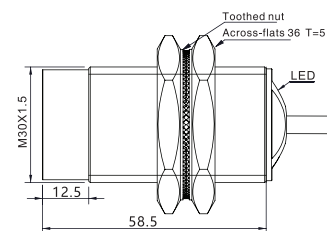


M30

TLF30-16□□



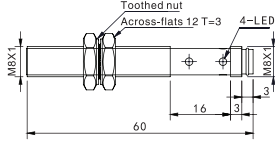
TLN30-25□□



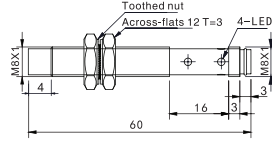
Dimensions- Connector Type (Unit:mm)

M8

TLF08-02□□-E1



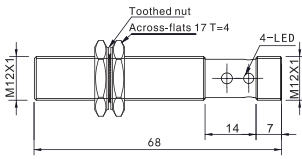
TLN08-04□□-E1



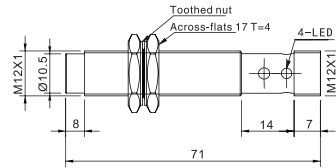
M8 3 Pin

M12

TLF12-04□□-E2



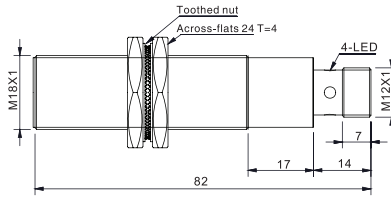
TLN12-08□□-E2



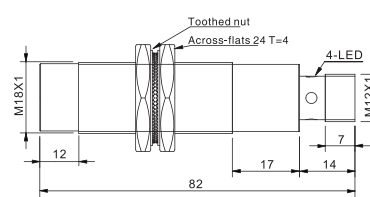
M12 4 Pin

M18

TLF18-08□□-E2



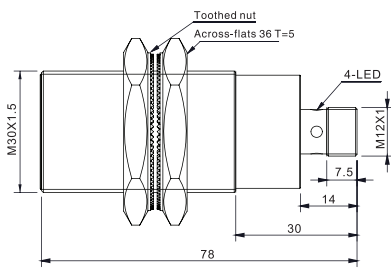
TLN18-16□□-E2



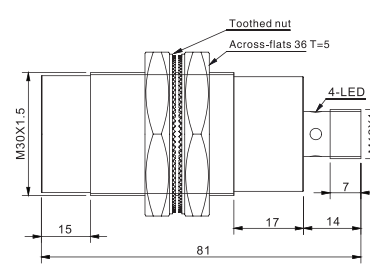
M12 4 Pin

M30

TLF30-16□□-E2



TLN30-25□□-E2



M12 4 Pin