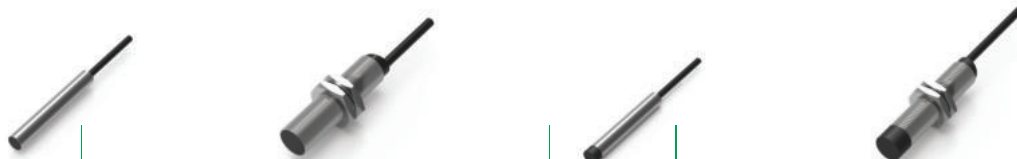


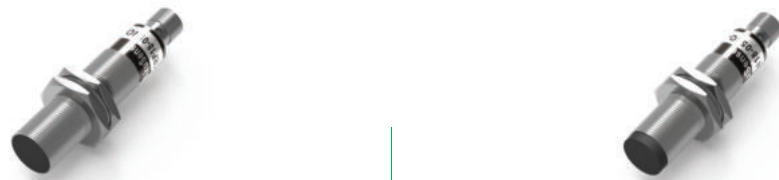
# Long Distance

## Pre-wired



Appearance											
Mounting	Shielded		Shielded			Unshielded		Unshielded			
Housing size	φ 6.5	M8	M12	M18	M30	φ 6.5	M8	M12	M18	M30	
Sensing distance	3mm ± 10%	3mm ± 10%	6mm ± 10%	12mm ± 10%	22mm ± 10%	6mm ± 10%	6mm ± 10%	10mm ± 10%	20mm ± 10%	40mm ± 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		800Hz	300Hz	150Hz	500Hz		400Hz	100Hz		
Repeat accuracy	< 5.0% (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	TYF6.5-03 <sup>NO</sup>	TYF08-03 <sup>NO</sup>	TYF12-06 <sup>NO</sup>	TYF18-12 <sup>NO</sup>	TYF30-22 <sup>NO</sup>	TYN6.5-06 <sup>NO</sup>	TYN08-06 <sup>NO</sup>	TYN12-10 <sup>NO</sup>	TYN18-20 <sup>NO</sup>	TYN30-40 <sup>NO</sup>
	Others	<sup>NO</sup> :NPN Normally open		<sup>NC</sup> :NPN Normally closed		<sup>PO</sup> :PNP Normally open		<sup>PC</sup> :PNP Normally closed			

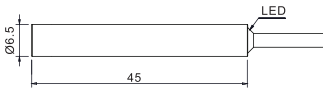
## Connector Type



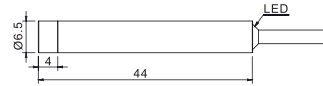
Appearance									
Mounting	Shielded				Unshielded				
Housing size	M8	M12	M18	M30	M8	M12	M18	M30	
Sensing distance	3mm ± 10%	6mm ± 10%	12mm ± 10%	22mm ± 10%	6mm ± 10%	10mm ± 10%	20mm ± 10%	40mm ± 10%	
Housing material	Stainless steel	Nickel copper alloy			Stainless steel	Nickel copper alloy			
Operating voltage	10~30V DC(Ripple < 10%)								
Voltage drop	< 1.5V								
Load Current, Max	150mA								
Current consumption	< 10mA								
Leakage current	< 0.01mA								
Switch frequency	1KHz	800Hz	300Hz	150Hz	500Hz	400Hz	100Hz		
Repeat accuracy	< 5.0% (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	TYF08-03 <sup>NO</sup> -E1	TYF12-06 <sup>NO</sup> -E2	TYF18-12 <sup>NO</sup> -E2	TYF30-22 <sup>NO</sup> -E2	TYN08-06 <sup>NO</sup> -E1	TYN12-10 <sup>NO</sup> -E2	TYN18-20 <sup>NO</sup> -E2	TYN30-40 <sup>NO</sup> -E2
	Others	<sup>NO</sup> :NPN Normally open		<sup>NC</sup> :NPN Normally closed		<sup>PO</sup> :PNP Normally open		<sup>PC</sup> :PNP Normally closed	

### φ6.5

TYF6.5-03□□

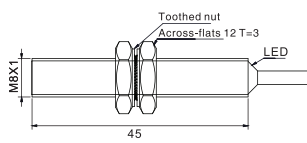


TYN6.5-06□□

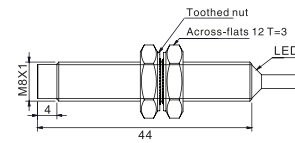


### M8

TYF08-03□□

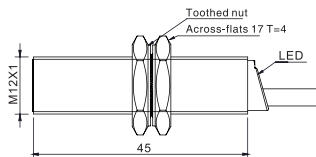


TYN08-06□□

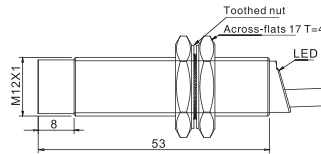


### M12

TYF12-06□□

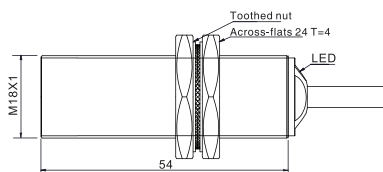


TYN12-10□□

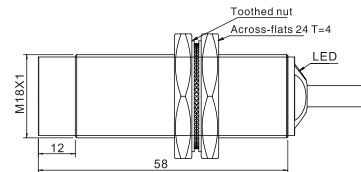


### M18

TYF18-12□□

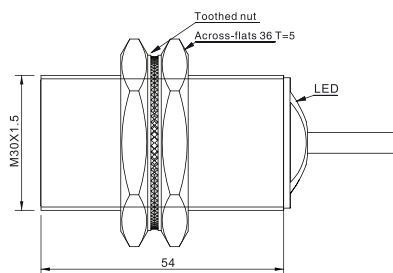


TYN18-20□□

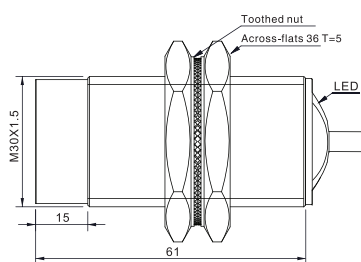


### M30

TYF30-22□□



TYN30-40□□

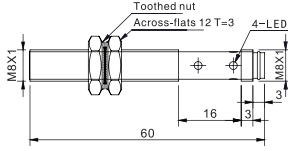


# Long Distance

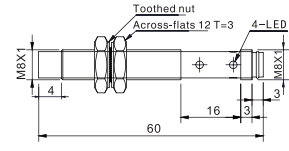
## Dimensions-Connector Type (Unit:mm)

### M8

TYF08-03□□-E1

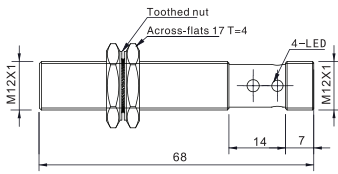


TYN08-06□□-E1

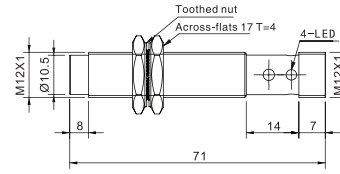


### M12

TYF12-06□□-E2

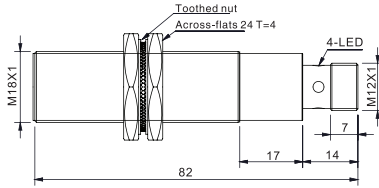


TYN12-10□□-E2

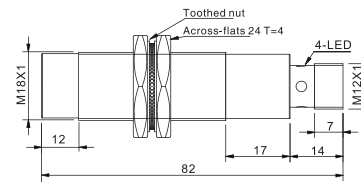


### M18

TYF18-12□□-E2

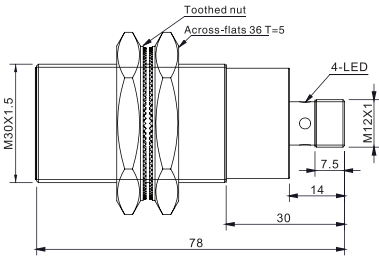


TYN18-20□□-E2



### M30

TYF30-22□□-E2



TYN30-40□□-E2

