





Appearance						
Mounting	Shielded					
Size	φ 6.5	M8	M12	M18	M30	
Sensing distance	1 mm/2mm ± 10%	1 mm/2mm ± 10%	2mm/4mm ± 10%	5mm/8mm ± 10%	10mm/16mm ± 10%	
Housing material	Stainless steel		Nickel copper alloy			
Operating voltage	10~30V DC(Ripple < 10%)		10~60V DC(Ripple < 10%)			
Operating current	3~100mA					
Leakage current	< 0.8mA					
Voltage drop	< 6V/ < 4V					
Circuit protection	Short circuit					
Over-load current	> 120mA					
Switch frequency	2KHz		1KHz	500Hz		
Hysteresis	15%					
Temperature drift	10%					
Repeat accuracy	< 2%					
Operating Temperature	-25°C~+75°C					
Sensing surface material	PBT					
Model No.	Normally open	TDF6.5-01HO/TDF6.5-02HO	TDF08-01HO/TDF08-02HO	TDF12-02HO/TDF12-04HO	TDF18-05HO/TDF18-08HO	TDF30-10HO/TDF30-16HO
	Normally close	TDF6.5-01HC/TDF6.5-02HC	TDF08-01HC/TDF08-02HC	TDF12-02HC/TDF12-04HC	TDF18-05HC/TDF18-08HC	TDF30-10HC/TDF30-16HC

Appearance						
Mounting	Unshielded					
Size	φ 6.5	M8	M12	M18	M30	
Sensing distance	2mm/4mm ± 10%	2mm/4mm ± 10%	4mm/8mm ± 10%	8mm/16mm ± 10%	15mm/25mm ± 10%	
Housing material	Stainless steel		Nickle plated brass			
Operating voltage	10~30V DC(Ripple < 10%)		10~60V DC(Ripple < 10%)			
Operating current	3~100mA					
Leakage current	< 0.8mA					
Voltage drop	< 6V/ < 4V					
Circuit protection	Short circuit					
Over-load current	> 120mA					
Switch frequency	2KHz		1KHz	500Hz	200Hz	
Hysteresis	15%					
Temperature drift	10%					
Repeat accuracy	< 2%					
Operating Temperature	-25°C~+75°C					
Sensing surface material	PBT					
Model No.	Normally open	TDN6.5-02HO/TDN6.5-04HO	TDN08-02HO/TDN08-04HO	TDN12-04HO/TDN12-08HO	TDN18-08HO/TDN18-16HO	TDN30-15HO/TDN30-25HO
	Normally close	TDN6.5-02HC/TDN6.5-04HC	TDN08-02HC/TDN08-04HC	TDN12-04HC/TDN12-08HC	TDN18-08HC/TDN18-16HC	TDN30-15HC/TDN30-25HC

- 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

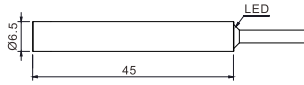
- Cylindrical
- Correction resistanc type
- Flat type
- Level detection

# DC 2-wire

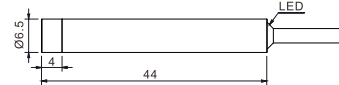
## Dimensions (Unit:mm)

φ6.5

TDF6.5-01/02 □□

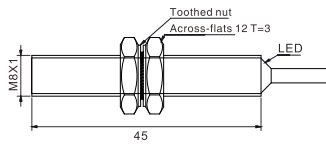


TDN6.5-02/04 □□

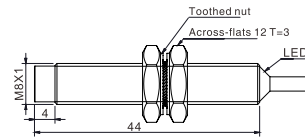


M8

TDF08-01/02 □□

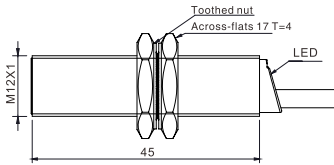


TDN08-02/04 □□

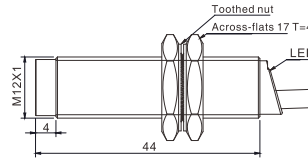


M12

TDF12-02/04 □□

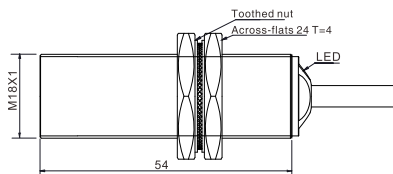


TDN12-04/08 □□

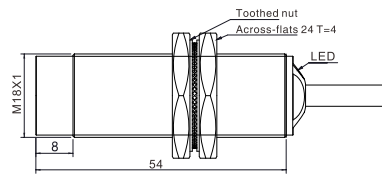


M18

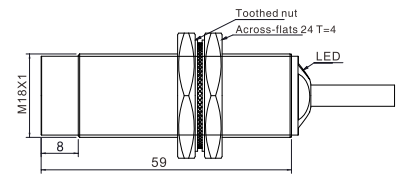
TDF18-05/08 □□



TDN18-08 □□

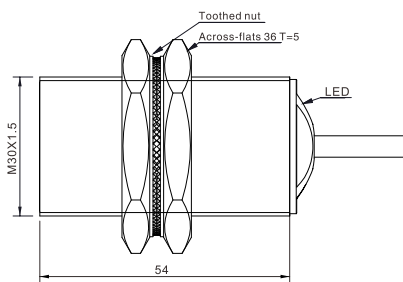


TDN18-16 □□

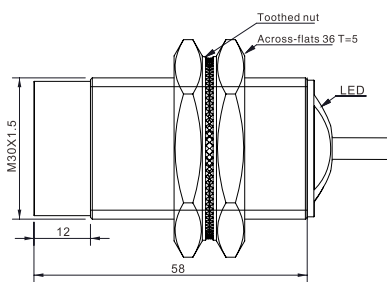


M30

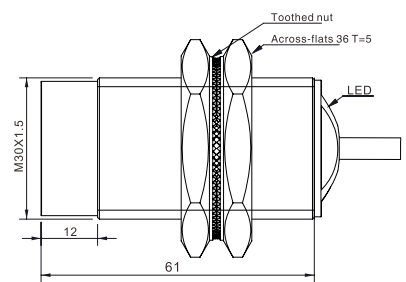
TDF30-10/16 □□



TDN30-15 □□



TDN30-25 □□



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