

# Metal Face

## Pre-wired



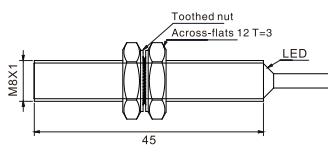
	Appearance						
	Mounting	Shielded					
	Housing size	M8	M12	M18	M30		
	Sensing distance	1mm/2mm ± 10%	2mm/4mm ± 10%	5mm/8mm ± 10%	10mm/16mm ± 10%		
	Housing material	Stainless steel					
Fiber Optic	Operating voltage	10~30V DC(Ripple < 10%)					
Slot Sensors	Voltage drop	< 1.5V					
Photoelectric	Load Current, Max	150mA					
Laser	Current consumption	< 10mA					
Proximity	Leakage current	< 0.01mA					
Displacement	Switch frequency	2KHz/1KHz	1KHz/500Hz		300Hz/150Hz		
Magnetic	Repeat accuracy	< 1.0% (Sr)					
Contact	Hysteresis	< 15% (Sr)					
Area	Sensing surface material	Stainless steel					
Ultrasonic	Operating Temperature	-25°C~+75°C					
Vision	Protective circuit	Short circuit					
Vibration	Degree of protection	IP67					
Temperature	Model No.	TMF08-01 N <sub>O</sub> /TMF08-02 N <sub>O</sub>	TMF12-02 N <sub>O</sub> /TMF12-04 N <sub>O</sub>	TMF18-05 N <sub>O</sub> /TMF18-08 N <sub>O</sub>	TMF30-10 N <sub>O</sub> /TMF30-16 N <sub>O</sub>		
Annexes	Others	N <sub>O</sub> :NPN Normally open	N <sub>C</sub> :NPN Normally closed	P <sub>O</sub> :PNP Normally open	P <sub>C</sub> :PNP Normally closed		



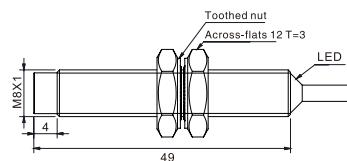
	Appearance				
	Mounting	Unshielded			
	Housing size	M8	M12	M18	M30
	Sensing distance	2mm/3mm ± 10%	4mm/8mm ± 10%	8mm/16mm ± 10%	15mm/25mm ± 10%
	Housing material	Stainless steel			
Inductive sensors	Operating voltage	10~30V DC(Ripple < 10%)			
Standard distance	Voltage drop	< 1.5V			
Extended distance	Load Current, Max	150mA			
Long distance	Current consumption	< 10mA			
Square	Leakage current	< 0.01mA			
Mini square	Switch frequency	2KHz/1KHz	1KHz/500Hz	500Hz/150Hz	150Hz/100Hz
Mini-cylindrical	Repeat accuracy	< 1.0% (Sr)			
Short-body	Hysteresis	< 15% (Sr)			
Ring-type	Sensing surface material	Stainless steel			
Metal face	Operating Temperature	-25°C~+75°C			
Temperature	Analog output	150mA			
Vibration	DC 2 wires	< 10mA			
Temperature	IP69K high protection	Short circuit			
Capacitive sensors	Degree of protection	IP67			
Cylindrical	Model No.	TMN08-02 N <sub>O</sub> /TMN08-03 N <sub>O</sub>	TMN12-04 N <sub>O</sub> /TMN12-08 N <sub>O</sub>	TMN18-08 N <sub>O</sub> /TMN18-16 N <sub>O</sub>	TMN30-15 N <sub>O</sub> /TMN30-25 N <sub>O</sub>
Correction resistance type	Others	N <sub>O</sub> :NPN Normally open	N <sub>C</sub> :NPN Normally closed	P <sub>O</sub> :PNP Normally open	P <sub>C</sub> :PNP Normally closed
Flat type					
Level detection					

M8

TMF08-01/02□□

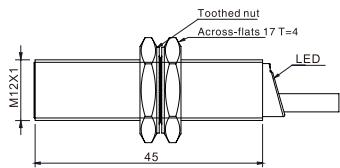


TMN08-02/03□□

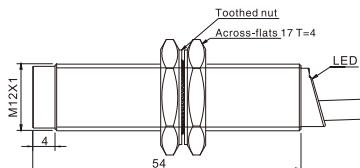


M12

TMF12-02/04□□

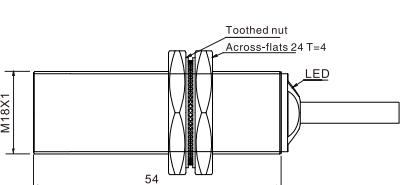


TMN12-04/08□□

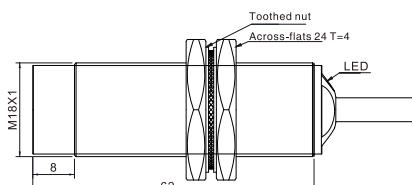


M18

TMF18-05/08□□

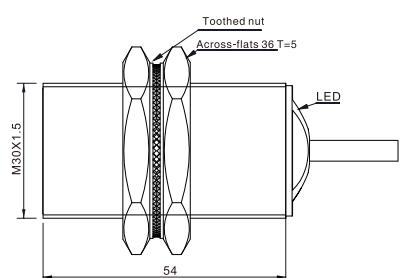


TMN18-08/16□□

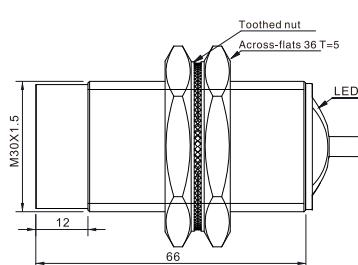


M30

TMF30-10/16□□



TMN30-15/25□□



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

**Guidance**

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

- Capacitive sensors**
- Cylindrical
- Correction resistance type
- Flat type
- Level detection