

# Temperature Resistance

## High Temperature (120°C) Resistance Pre-wired Type



Appearance							
Mounting	Shielded			Unshielded			
Housing size	M12	M18	M30	M12	M18	M30	
Sensing distance	2mm ± 10%	5mm ± 10%	10mm ± 10%	4mm ± 10%	8mm ± 10%	15mm ± 10%	
Housing material	Nickel copper alloy						
Operating voltage	10~30V DC(Ripple < 10%)						
Voltage drop	< 2.5V						
Load Current, Max	100mA						
Current consumption	< 15mA						
Hysteresis	1~20%						
Repeat accuracy	< 5%						
Response frequency	1500Hz	1000Hz	500Hz	1000Hz	800Hz	300Hz	
Indicator	Yellow LED						
Ambient temperature	-25°C~+120°C						
Ambient humidity	35~95% RH						
Protective circuit	Reverse polarity; Surge protection						
Degree of protection	IP67						
Model No.	NPN Normally open	TGF12-02[NO]	TGF18-05[NO]	TGF30-10[NO]	TGN12-04[NO]	TGN18-08[NO]	TGN30-15[NO]
	Others	[NC]:NPN Normally open	[NC]:NPN Normally closed	[PC]:PNP Normally open	[PC]:PNP Normally closed		

## High Temperature (220°C) Resistance Pre-wired Type



Appearance				
Mounting	Shielded			
Housing size	M12	M18	M30	
Sensing distance	2mm ± 10%	5mm ± 10%	10mm ± 10%	
Housing material	Nickel copper alloy			
Operating voltage	10~30V DC			
Voltage drop	< 1.8V			
Load current	External			
Current consumption	< 3mA(24V)			
Switch frequency	500Hz/220°C	500Hz/220°C	200Hz/220°C	
Repeat accuracy	< 3.0% (Sr)			
Hysteresis	3~15% (Sr)			
Sensing surface material	PBT			
Ambient temperature	-25~+220°C			
Degree of protection	IP66			
Interface	PTFE Cable/2m; 3*0.34mm <sup>2</sup>			
Model No.	NPN Normally open	TGF12-02NO2	TGF18-05NO2	TGF30-10NO2
	NPN Normally open	TGF12-02PO2	TGF18-05PO2	TGF30-10PO2

Proximity

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

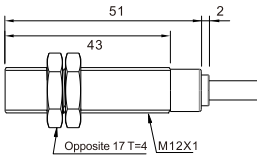
resistance type

Flat type

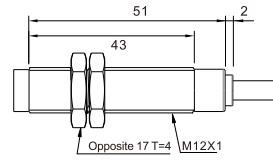
Level detection

M12

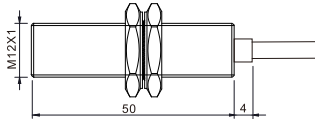
TGF12-02□□



TGN12-04□□

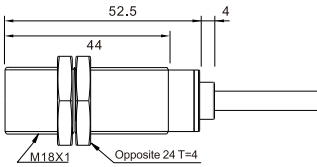


TGF12-02□□2

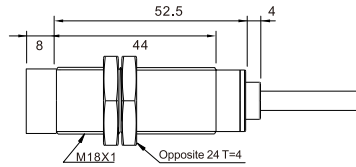


M18

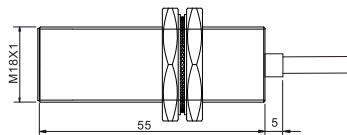
TGF18-05□□



TGN18-08□□

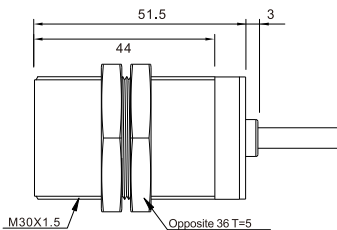


TGF18-05□□2

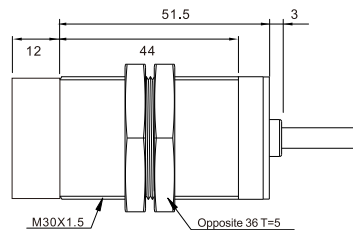


M30

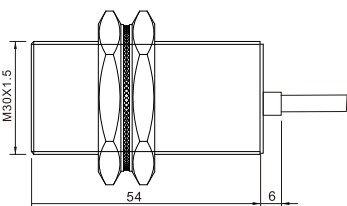
TGF30-10□□



TGN30-15□□



TGF30-10□□2



- 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 resistanc type

Flat type

Level detection