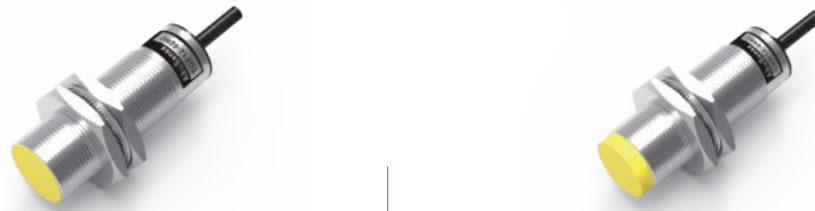


## Temperature Resistance

### 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	TGF12-02N□	TGF18-05N□	TGF30-10N□	TGN12-04N□	TGN18-08N□	TGN30-15N□
	Others	N□:NPN Normally open	N□:NPN Normally closed	P□:PNP Normally open	P□:PNP Normally closed		

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



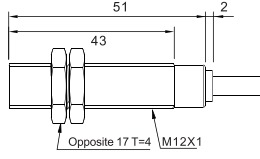
Appearance				
Mounting	Shielded			
Housing size	M12	M18	M30	
Sensing distance	2mm ± 10%	5mm ± 10%	10mm ± 10%	
Housing material	Nickel copper alloy			
Operating voltage	10~30V DC			
Voltage drop	< 1.8V			
Load current	External			
Current consumption	< 3mA(24V)			
Switch frequency	500Hz/220°C	500Hz/220°C	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

# Temperature Resistance

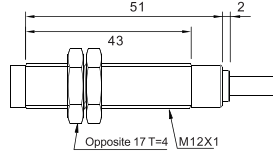
Dimensions (Unit:mm)

## M12

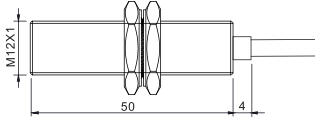
TGF12-02□□



TGN12-04□□

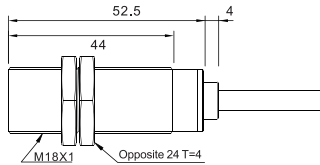


TGF12-02□□2

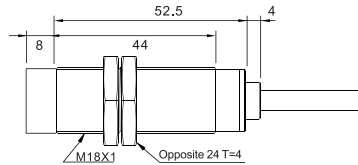


## M18

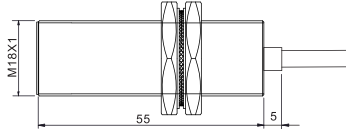
TGF18-05□□



TGN18-08□□

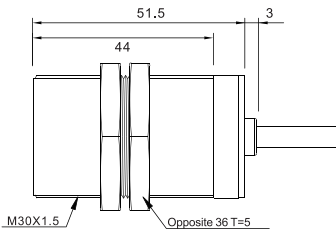


TGF18-05□□2

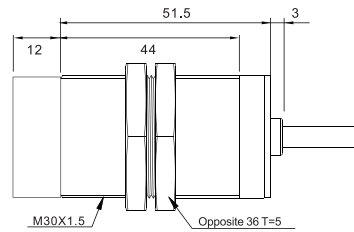


## M30

TGF30-10□□



TGN30-15□□



TGF30-10□□2

