

Temperature Resistance

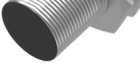
High Temperature (120℃) Resistance Pre-wired Type



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℃~+120℃							
Ambient humidity	35~95% RH							
Protective circuit	Reverse polarity; Surge protection							
Degree of protection	IP67							
Model No.	NPN Normally open	TGF12-02NO	TGF18-05NO	TGF30-10NO	TGN12-04NO	TGN18-08NO	HOT	TGN30-15NO
	Others	NO:NPN Normally open	NC:NPN Normally closed	PO:PNP Normally open	PC:PNP Normally closed			

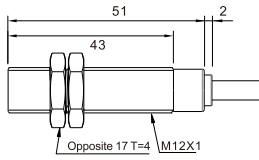
High Temperature (220℃) Resistance Pre-wired Type



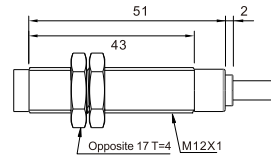
Appearance				
Mounting		Shielded		
Housing size		M12	M18	M30
Sensing distance		2mm ± 10%	5mm ± 10%	10mm ± 10%
Housing material		Nickel copper alloy		
Operating voltage		10~30V DC		
Voltage drop		< 1.8V		
Load current		External		
Current consumption		< 3mA(24V)		
Switch frequency		500Hz/220℃	500Hz/220℃	200Hz/220℃
Repeat accuracy		< 3.0% (Sr)		
Hysteresis		3~15% (Sr)		
Sensing surface material		PBT		
Ambient temperature		-25~+220℃		
Degree of protection		IP66		
Interface		PTFE Cable/2m; 3*0.34mm²		
Model No.	NPN Normally open	TGF12-02NO2	TGF18-05NO2	TGF30-10NO2
	NPN Normally open	TGF12-02PO2	TGF18-05PO2	TGF30-10PO2

M12

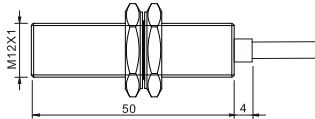
TGF12-02□□



TGN12-04□□

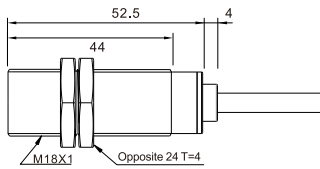


TGF12-02□□2

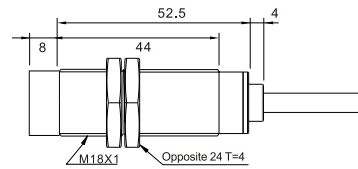


M18

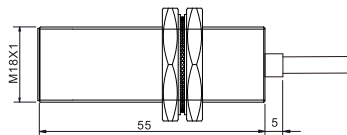
TGF18-05□□



TGN18-08□□

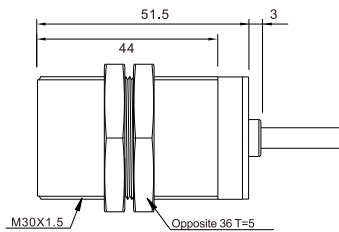


TGF18-05□□2

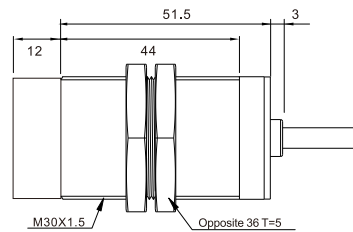


M30

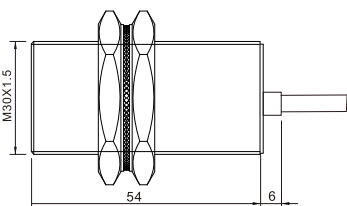
TGF30-10□□



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