



Basic Features	Working principle	Inductive sensor	
	Housing	Cylindrical	
	Installation type	Flush	
	Sensing distance	0.6mm/0.8mm/1.0mm ± 10%	0.8mm/1.0mm/1.2mm/1.5mm ± 10%
	Thread size	—	
	Sensing surface material	PA66	
	Detected objects	Metal	
	Indicator	Operation Status: LED	
	Sensing range adjustment	None	
Electrical data	Switching output	Normally Open or Normally Closed	
	Output mode	NPN or PNP Open Collector	
	External input	None	
	Switching frequency	2kHz	
	Repeatability	1%	
	Hysteresis	15%	
	Operating Voltage	10~30V DC ± 10%	
	Current consumption	≤10mA	
	Residual Voltage	≤1.5V	
	Load current	100mA	150mA
	Leakage current	<0.01mA	
	Insulation resistance	≥50MΩ with 500V DC between power terminals and enclosure	
	Dielectric strength	1,000 VAC, 50/60 Hz for 1 min between power terminals and enclosure	
	Vibration resistance	10 to 55 Hz, 1.5 mm double amplitude, 2 hours for each X, Y, and Z directions	
	Circuit Protection	—	
Environmental conditions	Operating Temperature	-25~+75°C	
	Operating Humidity	35~85%	
	Enclosure rating	IP67	
Mechanical data	Connection type	2m/3-core Cable	
	Dimension	Ø3.0x25.0mm	Ø4.0x25.0mm
	Material	Stainless steel+PA66	
	Weight	0.005kg	0.007kg
	Accessories	—	
Model	NPN NO	TXF03-0.6[NIO]/TXF03-0.8[NIO]/TXF03-0.1[NIO]	
	Others	[NIO]:NPN Normally open	[NIO]:NPN Normally closed
		[PIO]:PNP Normally open	[PIO]:PNP Normally closed

Fiber Optic

Slot Sensors

Photoelectric

Laser

Proximity

Displacement

Magnetic

Contact

Area

Ultrasonic

AI Image

Code Readers

Vibration

Temperature

RFID

Safety door lock

Pressure Switch

Communication

Accessories

Guidance

Inductive sensors

Standard distance

Extended distance

Long distance

Square

Mini square

Mini-cylindrical

Short-body

Ring-type

Metal face

Temperature

resistance type

IP69K high protection

Anti-Slag

Analog output

DC 2 wires

Capacitive sensors

Cylindrical

Correction

resistant type

Flat type

Level detection

Mini-cylindrical-TX Series

Pre-wired



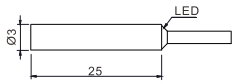
Basic Features	Working principle	Inductive sensor	
	Housing	Cylindrical	
	Installation type	Flush	
	Sensing distance	0.6mm/0.8mm/1.0mm ± 10 %	0.8mm/1.0mm/1.2mm/1.5mm ± 10 %
	Thread size	M4	M5
	Sensing surface material	PA66	
	Detected objects	Metal	
	Indicator	Operation Status: LED	
	Sensing range adjustment	None	
Electrical data	Switching output	Normally Open or Normally Closed	
	Output mode	NPN or PNP Open Collector	
	External input	None	
	Switching frequency	2kHz	
	Repeatability	5%	
	Hysteresis	15%	
	Operating Voltage	10~30V DC ± 10%	
	Current consumption	≤10mA	
	Residual Voltage	≤1.5V	
	Load current	100mA	
	Leakage current	<0.01mA	
	Insulation resistance	≥50MΩ with 500V DC between power terminals and enclosure	
	Dielectric strength	1,000 VAC, 50/60 Hz for 1 min between power terminals and enclosure	
	Vibration resistance	10 to 55 Hz, 1.5 mm double amplitude, 2 hours for each X, Y, and Z directions	
	Circuit Protection	—	
Environmental conditions	Operating Temperature	-25~+75℃	
	Operating Humidity	35~85%	
	Enclosure rating	IP67	
Mechanical data	Connection type	2m/3-core Cable	
	Dimension	M4x25.0mm	M5x25.0mm
	Material	Stainless steel+PA66	
	Weight	0.005kg	0.007kg
	Accessories	Nut M4x0.5	Nut M5x0.5
Model	NPN NO	TXFM4-0.6[NO] / TXFM4-0.8[NO] / TXFM4-01[NO]	
	Others	[NO]:NPN Normally open	[NC]:NPN Normally closed [PO]:PNP Normally open [PC]:PNP Normally closed

Unit:mm

Dimensions

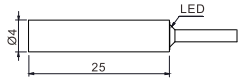
φ3

TXF03-0.6/0.8/01□□



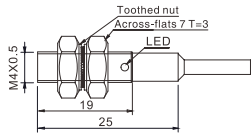
φ4

TXF04-0.8/01/1.2/1.5□□



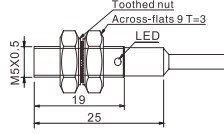
M4

TXFM4-0.6/0.8/01□□



M5

TXF05-0.8/01/1.2/1.5□□



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AI Image
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Vibration
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RFID
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Pressure Switch
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Extended distance
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Short-body
Ring-type
Metal face
Temperature resistance type
IP69K high protection
Anti-Slag
Analog output
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Capacitive sensors

Cylindrical
Correction resistant type
Flat type
Level detection