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Analog Output-TA Series

Pre-wired



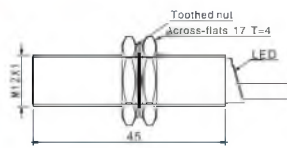
Basic Features	Working principle	Inductive sensor					
	Housing	Cylindrical					
	Installation type	Flush			Non-flush		
	Sensing distance	0.1~3mm ± 10%	1~4mm ± 10%	5~10mm ± 10%	0.1~4mm ± 10%	1~7mm ± 10%	7~14mm ± 10%
	Thread size	M12	M18	M30	M12	M18	M30
	Sensing surface material	PBT					
	Detected objects	Metal					
	Indicator	Operation Status: LED					
	Sensing range adjustment	Available					
Electrical data	Switching output	-					
	Output mode	PNP-Analog					
	External input	None					
	Switching frequency	0.1kHz					
	Repeatability	2%					
	Hysteresis	20%					
	Operating Voltage	18~30V DC ± 10%					
	Current consumption	≤15mA					
	Residual Voltage	-					
	Load current	-					
	Leakage current	-					
	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	Reverse Polarity Protection					
Environmental conditions	Operating Temperature	-25~75°C					
	Operating Humidity	35~85%					
	Enclosure rating	IP67					
Mechanical data	Connection type	2m/3-core Cable					
	Dimension	M12x45.0mm	M18x54.0mm	M30x54.0mm	M12x44.0mm	M18x54.0mm	M30x58.0mm
	Material	Copper-nickel alloy+PBT					
	Weight	0.05kg	0.08kg	0.12kg	0.05kg	0.08kg	0.12kg
	Accessories	Nut M12x1.0	Nut M18x1.0	Nut M30x1.5	Nut M12x1.0	Nut M18x1.0	Nut M30x1.5
Model	Current output (normally open)	TAF12-03PA	TAF18-04PA	TAF30-10PA	TAN12-04PA	TAN18-07PA	TAN30-14PA
	Voltage output (normally open)	TAF12-03PV	TAF18-04PV	TAF30-10PV	TAN12-04PV	TAN18-07PV	TAN30-14PV

Unit:mm

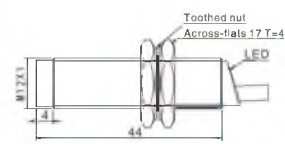
Dimensions

M12

TAF12-03□□

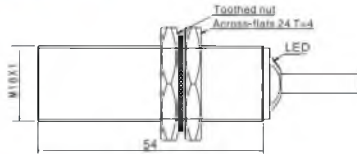


TAN12-04□□

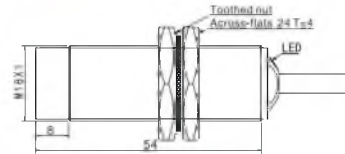


M18

TAF18-04□□

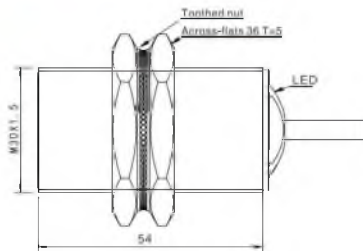


TAN18-07□□

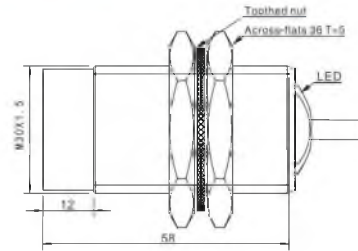


M30

TAF30-10□□

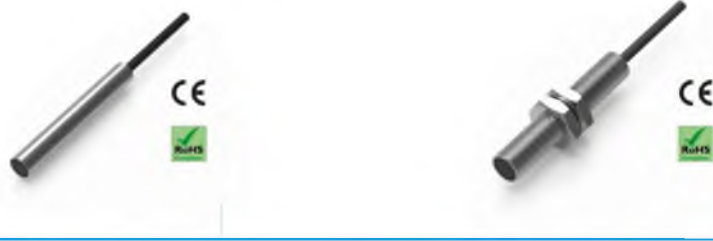


TAN30-14□□



DC 2-wire-TD Series

Pre-wired



Basic Features	Working principle	Inductive sensor				
	Housing	Cylindrical				
	Installation type	Flush				
	Sensing distance	1.0mm/2.0mm ± 10%	1.0mm/2.0mm ± 10%	2.0mm/4.0mm ± 10%	5.0mm/8.0mm ± 10%	10mm/16mm ± 10%
	Thread size	φ6.5	M8	M12	M18	M30
	Sensing surface material	PBT				
	Detected objects	Metal				
	Indicator	Operation Status: LED				
	Sensing range adjustment	None				
Electrical data	Switching output	Normally Open or Normally Closed				
	Output mode	Reed switch				
	External input	None				
	Switching frequency	2kHz		1kHz		0.5kHz
	Repeatability	2%				
	Hysteresis	15%				
	Operating Voltage	10~30V DC ± 10%			10~60V DC ± 10%	
	Current consumption	3~100mA				
	Residual Voltage	<4.0V		<6.0V		
	Load current	≤120mA				
	Leakage current	<0.8mA				
	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				
	Environmental conditions	Circuit Protection	Short circuit protection			
Operating Temperature		-25~75°C				
Operating Humidity		35~85%				
Enclosure rating		IP67				
Mechanical data	Connection type	2m/2-core Cable				
	Dimension	Ø6.5x45.0mm	M8x45.0mm	M12x45.0mm	M18x54.0mm	M30x54.0mm
	Material	Stainless steel+PBT			Copper-nickel alloy+PBT	
	Weight	0.009kg	0.012kg	0.05kg	0.08kg	0.12kg
	Accessories	—	Nut M8x1.0	Nut M12x1.0	Nut M18x1.0	Nut M30x1.5
Model	Normally closed	TDF6.5-01HO/TDF6.5-02HO	TDF08-01HO/TDF08-02HO	TDF12-02HO/TDF12-04HO	TDF18-05HO/TDF18-08HO	TDF30-10HO/TDF30-16HO
	Normally open	TDF6.5-01HC/TDF6.5-02HC	TDF08-01HC/TDF08-02HC	TDF12-02HC/TDF12-04HC	TDF18-05HC/TDF18-08HC	TDF30-10HC/TDF30-16HC



Basic Features	Working principle	Inductive sensor				
	Housing	Cylindrical				
	Installation type	Non-flush				
	Sensing distance	2.0mm/4.0mm ± 10%		4.0mm/8.0mm ± 10%	8.0mm/16mm ± 10%	15mm/25mm ± 10%
	Thread size	φ6.5	M8	M12	M18	M30
	Sensing surface material	PBT				
	Detected objects	Metal				
	Indicator	Operation Status: LED				
	Sensing range adjustment	None				
Electrical data	Switching output	Normally Open or Normally Closed				
	Output mode	Reed switch				
	External input	None				
	Switching frequency	2kHz		1kHz	0.5kHz	0.2kHz
	Repeatability	2%				
	Hysteresis	15%				
	Operating Voltage	10~30V DC ± 10%		10~60V DC ± 10%		
	Current consumption	3~100mA				
	Residual Voltage	<4.0V		<6.0V		
	Load current	≤120mA				
	Leakage current	<0.8mA				
	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				
	Environmental conditions	Circuit Protection	Short circuit protection			
Operating Temperature		-25~75℃				
Operating Humidity		35~85%				
Enclosure rating		IP67				
Mechanical data	Connection type	2m/2-core Cable				
	Dimension	Ø6.5x44.0mm	M8x44.0mm	M12x44.0mm	M18x54.0/M18x59.0mm	M30x58.0/M30x61.0mm
	Material	Stainless steel+PBT		Copper-nickel alloy+PBT		
	Weight	0.009kg	0.012kg	0.05kg	0.08kg	0.12kg
	Accessories	—	Nut M8x1.0	Nut M12x1.0	Nut M18x1.0	Nut M30x1.5
Model	Normally closed	TDN6.5-02HO/TDN6.5-04HO	TDN08-02HO/TDN08-04HO	TDN12-04HO/TDN12-08HO	TDN18-08HO/TDN18-16HO	TDN30-15HO/TDN30-25HO
	Normally open	TDN6.5-02HC/TDN6.5-04HC	TDN08-02HC/TDN08-04HC	TDN12-04HC/TDN12-08HC	TDN18-08HC/TDN18-16HC	TDN30-15HC/TDN30-25HC

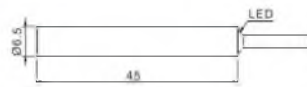
DC 2-wire-TD Series

Dimensions

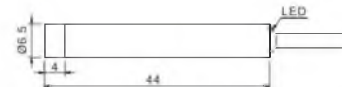
Unit:mm



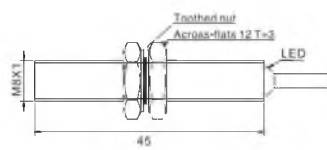
TDF6.5-01/02 □□



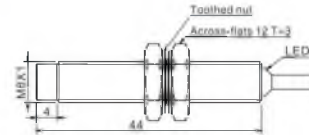
TDN6.5-02/04 □□



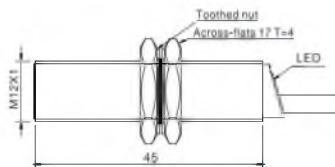
TDF08-01/02 □□



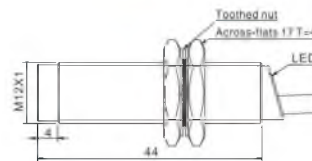
TDN08-02/04 □□



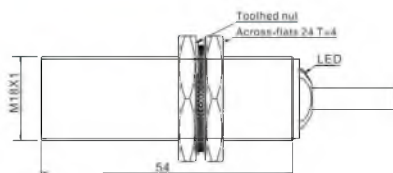
TDF12-02/04 □□



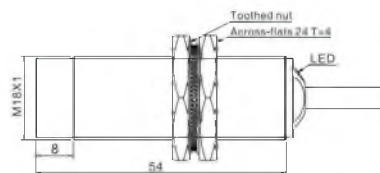
TDN12-04/08 □□



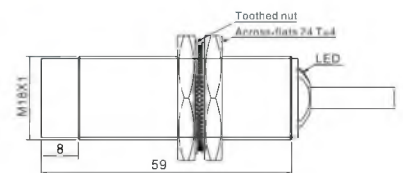
TDF18-05/08 □□



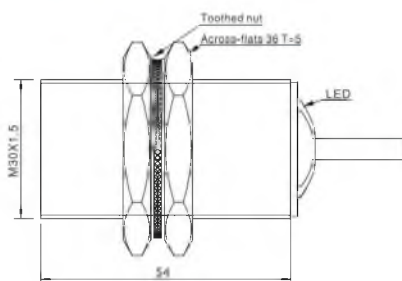
TDN18-08 □□



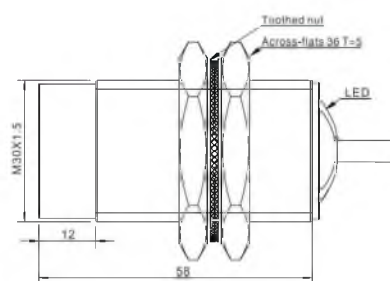
TDN18-16 □□



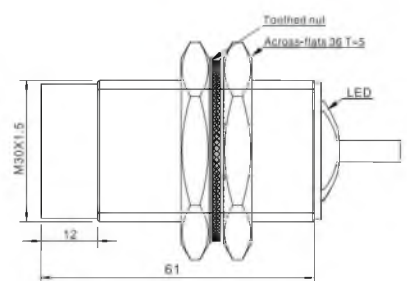
TDF30-10/16 □□



TDN30-15 □□



TDN30-25 □□



Anti-welding Slag-TW Series

NEW!



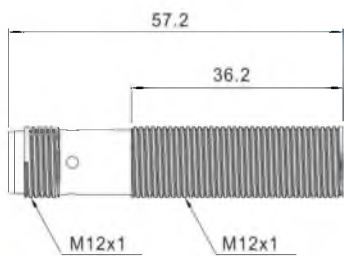
Basic Features	Working principle	Inductive sensor		
	Housing	Cylindrical		
	Installation type	Flush		
	Sensing distance	4mm	8mm	15mm
	Thread size	M12	M18	M30
	Sensing surface material	Teflon coating		
	Detected objects	Metal		
	Indicator	Action Indicator: Yellow LED		
	Sensing range adjustment	None		
Electrical data	Switching output	Normally Open or Normally Closed		
	Output mode	NPN or PNP Open Collector		
	External input	None		
	Switching frequency	1kHz		
	Repeatability	≤2% rated distance		
	Hysteresis	3~10% rated distance		
	Operating Voltage	10~30V DC		
	Current consumption	25mA		
	Residual Voltage	—		
	Load current	≤50mA		
	Leakage current	—		
	Insulation resistance	≥50MQ with 500V DC between the whole charging section and enclosure		
	Dielectric strength	AC500V, 50/60Hz for 60s, between the whole charging section and enclosure		
	Vibration resistance	55 Hz, 1.5 mm amplitude, 240 minutes for each X, Y, and Z directions. Sweep cycle time: 5 minutes		
Environmental conditions	Circuit Protection	Reverse polarity protection/output overload protection/output short circuit protection		
	Operating Temperature	-30~+70%		
	Operating Humidity	35%~95%RH		
	Enclosure rating	IP67		
Mechanical data	Connection type	M12 4 pin connector		
	Dimension	M12X57.2mm	M18X57.2mm	M30X57.2mm
	Material	Copper + Teflon coating		
	Weight	0.05kg		
	Accessories	None		
Model	NPN NO	TWF12-04[N]O-E	TWF18-08[N]O-E	TWF30-16[N]O-E
	Others	[N]O:NPN Normally open	[N]C:NPN Normally closed	[P]O:PNP Normally open

Unit:mm

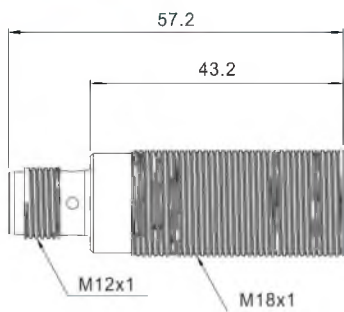
Dimensions

M12

TWF12-04□□

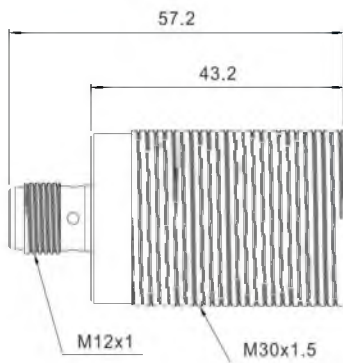


TWF18-08□□



M30

TWF30-16□□



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