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Long Distance-TY Series

Pre-wired



Basic Features	Working principle	Inductive sensor									
	Housing	Cylindrical									
	Installation type	Flush					Non-flush				
	Sensing distance	3.0mm ± 10%		6.0mm ± 10%	12mm ± 10%	22mm ± 10%	6.0mm ± 10%		10mm ± 10%	20mm ± 10%	40mm ± 10%
	Thread size	φ6.5	M8	M12	M18	M30	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	NPN or PNP Open Collector									
	External input	None									
	Switching frequency	1.0kHz		0.8kHz	0.3kHz	0.15kHz	0.5kHz		0.4kHz	0.1kHz	
	Repeatability	5%									
	Hysteresis	15%									
	Operating Voltage	10~30V DC±10%									
	Current consumption	≤10mA									
	Residual Voltage	≤1.5V									
	Load current	150mA									
	Leakage current	<0.01mA									
	Insulation resistance	≥50MQ with 500V DC between power terminals and enclosure									
	Dielectric strength	1,000 VAC, 50/60 Hz for 1 min between power terminals and enclosure		<40V	1,000 VAC, 50/60Hz for 1 min between power terminals and enclosure		330VAC 0.26mA	1,000 VAC, 50/60 Hz for 1 min between power terminals and enclosure		<40V	
	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/3-core Cable									
	Dimension	Ø6.5x45.0mm	M8x45.0mm	M12x45.0mm	M18x54.0mm	M30x54.0mm	Ø6.5x44.0mm	M8x44.0mm	M12x53.0mm	M18x58.0mm	M30x61.0mm
	Material	Stainless steel+PBT		Copper–nickel alloy+PBT			Stainless steel+PBT		Copper–nickel alloy+PBT		
	Weight	0.009kg	0.012kg	0.05kg	0.08kg	0.12kg	0.009kg	0.012kg	0.05kg	0.08kg	0.12kg
	Accessories	–	Nut M8x1	Nut M12x1	Nut M18x1	Nut M30x1.5	–	Nut M8x1	Nut M12x1	Nut M18x1	Nut M30x1.5
Model	NPN NO	TYF6.5-03	TYF08-03	TYF12-06	TYF18-12	TYF30-22	TYN6.5-06	TYN08-06	TYN12-10	TYN18-20	TYN30-40
	Others	[N.O.] NPN Normally open		[N.C.] NPN Normally closed			[P.O.] PNP Normally open		[P.C.] PNP Normally closed		



Basic Features	Working principle	Inductive sensor							
	Housing	Cylindrical							
	Installation type	Flush				Non-flush			
	Sensing distance	3.0mm ± 10%	6.0mm ± 10%	12mm ± 10%	22mm ± 10%	6.0mm ± 10%	10mm ± 10%	20mm ± 10%	40mm ± 10%
	Thread size	M8	M12	M18	M30	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	NPN or PNP Open Collector							
	External input	None							
	Switching frequency	1kHz	0.8kHz	0.3kHz	0.15kHz	0.5kHz	0.4kHz	0.1kHz	
	Repeatability	5%							
	Hysteresis	15%							
	Operating Voltage	10~30V DC±10%							
	Current consumption	≤10mA							
	Residual Voltage	≤1.5V							
	Load current	150mA							
	Leakage current	<0.01mA							
	Insulation resistance	>50MΩ with 500V DC between power terminals and enclosure							
	Dielectric strength	1,000 VAC, 50/60Hz for 1 min between power terminals and enclosure	<40V			1,000 VAC, 50/60 Hz for 1 min between power terminals and enclosure		330VAC 0.11mA	<40V
	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	M8/3-pin Connector	M12/4-pin Connector			M8/3-pin Connector	M12/4-pin Connector		
	Dimension	M8x60.0mm	M12x68.0mm	M18x82.0mm	M30x78.0mm	M8x60.0mm	M12x71.0mm	M18x82.0mm	M30x81.0mm
	Material	Stainless steel+PBT	Copper–nickel alloy+PBT			Stainless steel+PBT	Copper–nickel alloy+PBT		
	Weight	0.012kg	0.05kg	0.08kg	0.12kg	0.012kg	0.05kg	0.08kg	0.012kg
	Accessories	Nut M8x1	Nut M12x1	Nut M18x1	Nut M30x1.5	Nut M8x1	Nut M12x1	Nut M18x1	Nut M30x1.5
Model	NPN NO	TYF08-03[NO]-E1	TYF12-06[NO]-E2	TYF18-12[NO]-E2	TYF30-22[NO]-E2	TYN08-06[NO]-E1	TYN12-10[NO]-E2	TYN18-20[NO]-E2	TYN30-40[NO]-E2
	Others	[NC]:NPN Normally open		[NC]:NPN Normally closed		[PN]:PNP Normally open		[PN]:PNP Normally closed	

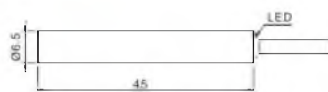
Long Distance-TY Series

Dimensions-Pre-wired

Unit:mm

φ6.5

TYF6.5-03□□

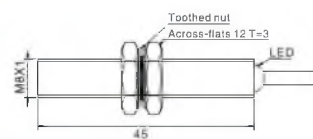


TYN6.5-06□□

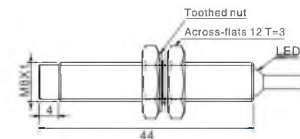


M8

TYF08-03□□

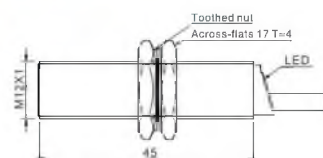


TYN08-06□□

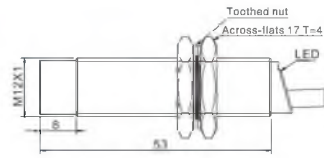


M12

TYF12-06□□

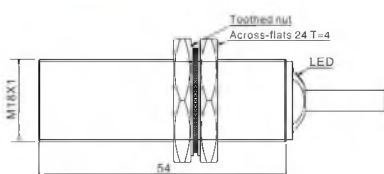


TYN12-10□□

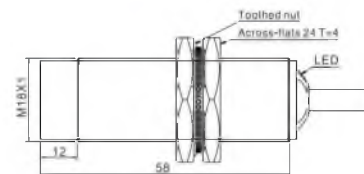


M18

TYF18-12□□

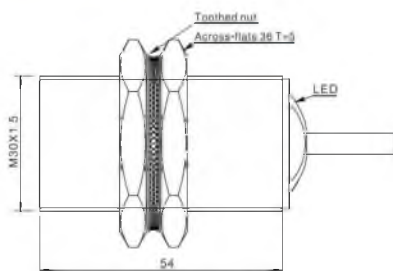


TYN18-20□□

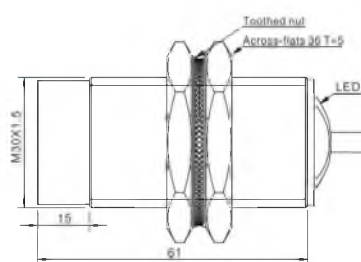


M30

TYF30-22□□



TYN30-40□□



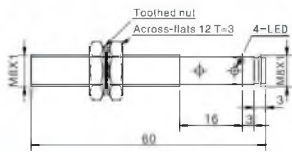
Long Distance-TY Series

Unit:mm

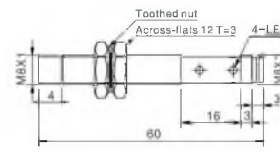
Dimensions-Connector Type

M8

TYF08-03□□-E1

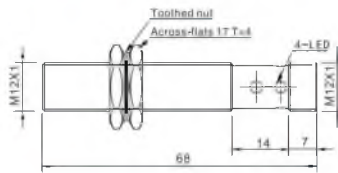


TYN08-06□□-E1

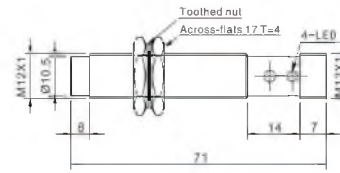


M12

TYF12-06□□-E2

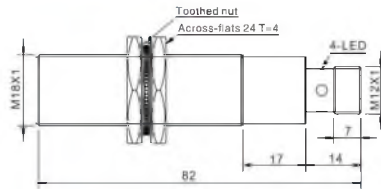


TYN12-10□□-E2

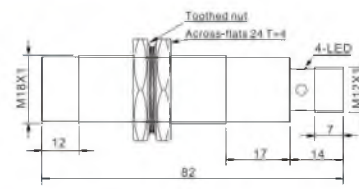


M18

TYF18-12□□-E2

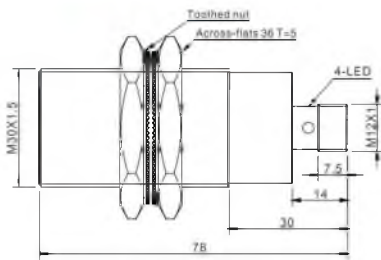


TYN18-20□□-E2

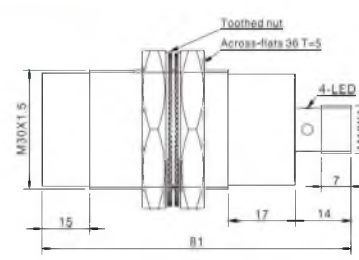


M30

TYF30-22□□-E2



TYN30-40□□-E2



Square-TQ Series

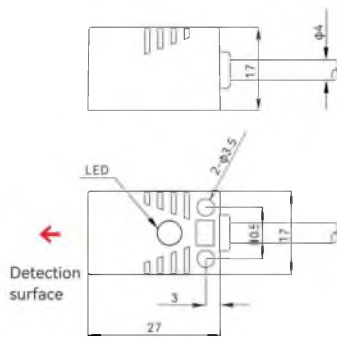
Pre-wired



Basic Features	Working principle	Inductive sensor					
	Housing	Square					
	Installation type	Flush	Non-flush	Flush	Non-flush	Flush	Non-flush
	Sensing distance	5.0mm ± 10%	8.0mm ± 10%	5.0mm ± 10%	8.0mm ± 10%	5.0mm ± 10%	8.0mm ± 10%
	Thread size	—					
	Sensing surface material	ABS					
	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	1kHz	0.3kHz	1kHz	0.3kHz	1kHz	0.3kHz
	Repeatability	1%					
	Hysteresis	15%					
	Operating Voltage	10~30V DC					
	Current consumption	≤10mA					
	Residual Voltage	<1.5V					
	Load current	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					
Environmental conditions	Circuit Protection	Short circuit protection					
	Operating Temperature	-25~+75℃					
	Operating Humidity	35~85%					
	Enclosure rating	IP67					
Mechanical data	Connection type	2m/3-core Cable					
	Dimension	27.0x17.0x17.0mm		34.0x18.0x18.0mm		30.5x18.0x10.0mm	
	Material	Plastic+ABS					
	Weight	0.05kg					
	Accessories	—					
Model	NPN NO	TQF17-05[N/O]	TQN17-08[N/C]	TQF18-05[N/O] (HOT)	TQN18-08[N/O]	TQF18C-05[N/O] (HOT)	TQN18C-08[N/O]
	Others	[N/O]:NPN Normally open		[N/C]:NPN Normally closed		[P/O]:PNP Normally open [P/C]:PNP Normally closed	

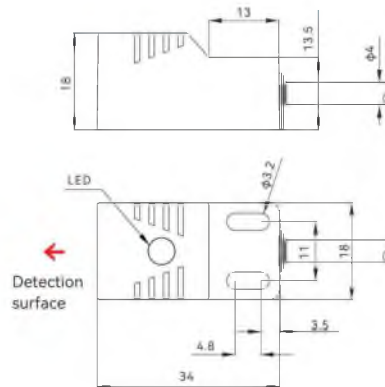
Q17

TQF17-05□□
TQN17-08□□



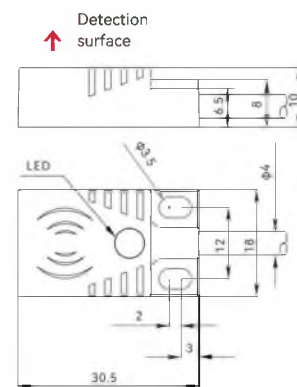
Q18

TQF18-05□□
TQN18-08□□



Q18C

TQF18C-05□□
TQN18C-08□□



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