

Short-body

Ultra Short Housing



Appearance		
Mounting	Shielded	
Housing size	φ 6.5	φ 6.5Y
Sensing distance	1mm/2mm ± 10%	
Housing material	Stainless steel	
Operating voltage	10~30V DC(Ripple < 10%)	
Voltage drop	< 1.5V	
Load Current , Max	150mA	
Current consumption	< 10mA	
Leakage current	< 0.01mA	
Switch frequency	2KHz	
Repeat accuracy	< 1.0%(Sr)	
Hysteresis	< 15%(Sr)	
Sensing surface material	PBT	
Operating Temperature	-25℃~+75℃	
Protective circuit	Short circuit	
Degree of protection	IP67	
Model No.	NPN Normally open	TSSF6.5-01NO/TSSF6.5-02NO
	Others	NO:NPN Normally open NO:NPN Normally closed PO:PNP Normally open PC:PNP Normally closed
		TSSF6.5Y-01NO/TSSF6.5-02NO



Appearance		
Mounting	Shielded	
Housing size	M8	M12
Sensing distance	1mm/2mm ± 10%	2mm/4mm ± 10%
Housing material	Stainless steel	Nickle plated brass
Operating voltage	10~30V DC(Ripple < 10%)	
Voltage drop	< 1.5V	
Load Current , Max	150mA	
Current consumption	< 10mA	
Leakage current	< 0.01mA	
Switch frequency	2KHz	
Repeat accuracy	< 1.0%(Sr)	
Hysteresis	< 15%(Sr)	
Sensing surface material	PBT	
Operating Temperature	-25℃~+75℃	
Protective circuit	Short circuit, except TSSF08-02NO	
Degree of protection	IP67	
Model No.	NPN Normally open	TSSF08-01NO/TSSF08-02NO
	Others	NO:NPN Normally open NO:NPN Normally closed PO:PNP Normally open PC:PNP Normally closed
		TSSF12-02NO/TSSF12-04NO

HOT



Appearance

Mounting	Shielded				
Housing size	M8	M12	M18	M30	
Sensing distance	1mm/2mm ± 10%	2mm/4mm ± 10%	5mm/8mm ± 10%	10mm/16mm ± 10%	
Housing material	Stainless steel	Nickle plated brass			
Operating voltage	10~30V DC(Ripple < 10%)				
Voltage drop	< 1.5V				
Load Current, Max	150mA				
Current consumption	< 10mA				
Leakage current	< 0.01mA				
Switch frequency	2KHz	2KHz/1Hz	1KHz/500Hz	300Hz/150Hz	
Repeat accuracy	< 1.0% (Sr)				
Hysteresis	< 15% (Sr)				
Sensing surface material	PBT				
Operating Temperature	-25℃~+75℃				
Protective circuit	Short circuit				
Degree of protection	IP67				
Model No.	NPN Normally open	TSF08-01NO / TSF08-02NO	TSF12-02NO / TSF12-04NO	TSF18-05NO / TSF18-08NO	TSF30-10NO / TSF30-16NO
	Others	NO :NPN Normally open	NC :NPN Normally closed	PO :PNP Normally open	PC :PNP Normally closed



Appearance

Mounting	Unshielded				
Housing size	M8	M12	M18	M30	
Sensing distance	2mm/4mm ± 10%	4mm/8mm ± 10%	8mm/16mm ± 10%	15mm/25mm ± 10%	
Housing material	Stainless steel	Nickle plated brass			
Operating voltage	10~30V DC(Ripple < 10%)				
Voltage drop	< 1.5V				
Load Current, Max	150mA				
Current consumption	< 10mA	< 20mA			
Leakage current	< 0.01mA				
Switch frequency	2KHz/1KHz	1KHz/500Hz	500Hz/150Hz	150Hz/100Hz	
Repeat accuracy	< 1.0% (Sr)				
Hysteresis	< 15% (Sr)				
Sensing surface material	PBT				
Operating Temperature	-25℃~+75℃				
Protective circuit	Short circuit				
Degree of protection	IP67				
Model No.	NPN Normally open	TSN08-02NO/TSN08-04NO	TSN12-04NO/TSN12-08NO	TSN18-08NO/TSN18-16NO	TSN30-15NO/TSN30-25NO
	Others	NO:NPN Normally open	NC:NPN Normally closed	PO:PNP Normally open	PC:PNP Normally closed

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

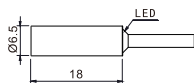
Level detection

Short-body

Extra Shot Outer Casing-Dimensions (Unit:mm)

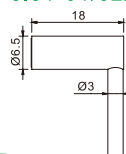
M6.5

TSSF6.5-01/02/03□□



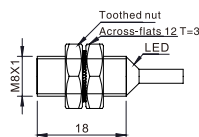
M6.5Y

TSSF6.5Y-01/02/03□□



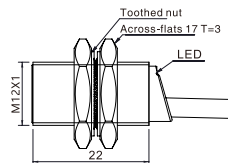
M8

TSSF08-01/02/03□□



M12

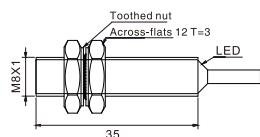
TSSF12-02/04/06□□



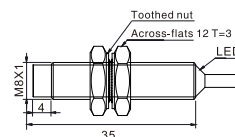
General-Dimensions (Unit:mm)

M8

TSF08-01/02□□

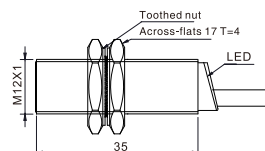


TSN08-02/04□□

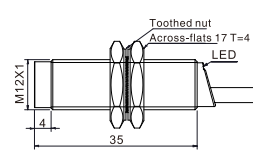


M12

TSF12-02/04□□

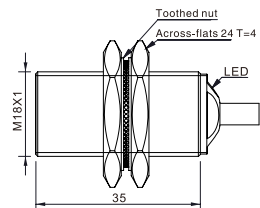


TSN12-04/08□□

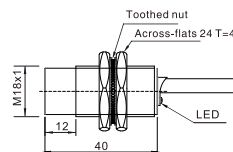


M18

TSF18-05/08□□

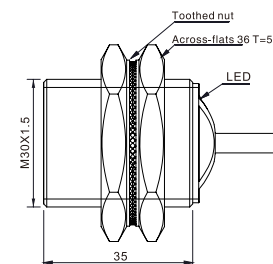


TSN18-08/16□□

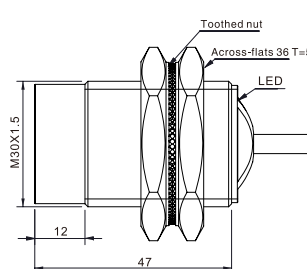


M30

TSF30-10/16□□



TSN30-15/25□□



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

resistant type

Flat type

Level detection