



Proximity Sensor
Pre-wired Type SERIES
V1.0

User's manual

Thank you for choosing L-com. Please read the manual carefully before using this product.

- The product should be applied by someone with a certain level of electrical knowledge.
- Please read and make sure that you understand how to operate the product before using it.
- Please keep this manual readily accessible for future reference when needed.

WARNING

Please comply with the warnings indicated below for they are important.

- Please do not exceed maximum rated voltage during usage in order to prevent tester malfunction or fire.
- Please do not apply AC power supply to avoid breakage.
- Please do not subject the product to high temperature to avoid scalding.

SAFETY PRECAUTIONS

For your safety, please comply with the tips listed below:

- Do not use in environments that are flammable or contain explosive or corrosive gases, chemicals, steam or humidity.
- Do not use under water, oil or other liquids.
- Please do not disassemble, repair or rebuild this product.
- Do not use beyond the recommended voltage and current range.
- Please pay attention to the electrical polarity of the power supply when making connections.
- Please connect the load correctly.
- Please avoid short-circuiting the load.
- Please do not operate the product if it is damaged.
- When disposing the product, please treat it as industrial waste.
- Depending on the operating conditions (ambient temperature, supply voltage, others), the temperature of the sensor surface may increase. In operation and cleaning, please note that there is a danger of burns.

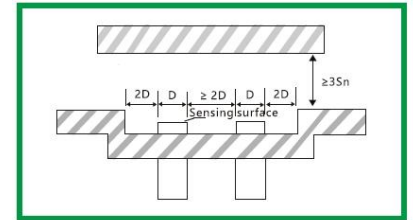
NOTICE FOR USE

- Do not use in direct sunlight.
- Do not install in a place that is easily accessible to anyone except the user.
- Do not install in an environment with excessive vibration which may cause direct shock to the product.
- Housing the product's wire and power lines in the same piping may cause disturbance, malfunction or even destruction of the product.
- The extension wire requires a wire with a cross-sectional area of 0.3 mm or more and a length of 100 m or less. In case the Korean S-mark certification model is used as a certification product, please ensure that it is set below 10 m.
- If force is applied to the wire, please refer to the following: below 40N, 0.1N·m torque less, 20N or less and 3 kg below the bending.
- When the power is turned on, the product can be detected within 200 ms. Hence, if the load and product are connected to different power supplies, the product's power must be turned on first.
- When the power is turned off, an output pulse may be generated. Please cut off the power supply of the load or load line to prevent the same.
- Please avoid using thinner, gasoline, acetone, kerosene or other solvents to clean the product.

SPECIFICATION

Model No.	PXINDTLN08-04NO	PXINDTLN12-08NO	PXINDTLN18-16NO	PXINDTLN30-25NO	PXINDTRN08-02NO	PXINDTRN12-04NO	PXINDTRN30-15NO
	N.O.:NPN Normally open						
Mounting	Unshielded						
Size	M8	M12	M18	M30	M8	M12	M30
Sensing distance	4mm±10%	8mm±10%	16mm±10%	25mm±10%	2mm±10%	4mm±10%	15mm±10%
Housing material	Stainless steel	Nickel copper alloy			Stainless steel	Nickel copper alloy	
Operating voltage	10~30V DC(Ripple < 10%)						
Voltage drop	< 2.0V						
Load Current, Max	150mA						
Current consumption	< 10mA						< 20mA
Leakage current	< 0.01mA						
Switch frequency	800Hz	500Hz	150Hz	100Hz	1KHz	800Hz	150Hz
Repeat accuracy	< 5.0%(Sr)		< 1.0%(Sr)			< 5.0%(Sr)	< 1.0%(Sr)
Hysteresis	< 15%(Sr)						
Sensing surface material	PBT						
Operating temperature	-25°C~+75°C						
Circuit Protection	Short circuit						
Degree of protection	IP67						

Model No.	PXINDTYN08-06NO	PXINDTYN12-10NO	PXINDTYN18-20NO	PXINDTYN30-40NO
	N.O.:NPN Normally open			
Mounting	Unshielded			
Size	M8	M12	M18	M30
Sensing distance	6mm±10%	10mm±10%	20mm±10%	40mm±10%
Housing material	Stainless steel	Nickel copper alloy		
Operating voltage	10~30V DC(Ripple < 10%)			
Voltage drop	< 1.5V			
Load Current, Max	150mA			
Current consumption	< 10mA			
Leakage current	< 0.01mA			
Switch frequency	500Hz	400Hz	100Hz	
Repeat accuracy	< 5.0%(Sr)			
Hysteresis	< 15%(Sr)			
Sensing surface material	PBT			
Operating temperature	-25°C~+75°C			
Circuit Protection	Short circuit			
Degree of protection	IP67			



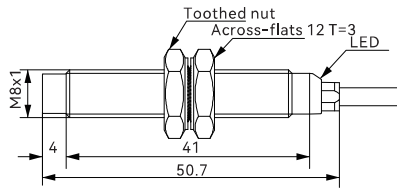
Unshielded Mounting Proximity Sensors
 The distance between sensing surface to surrounding metals must be more than 2 times sensing distance.

PACKAGE CONTENTS

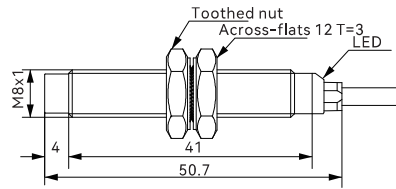
- Sensor 1pcs
- User's manual 1pcs

DIMENSION

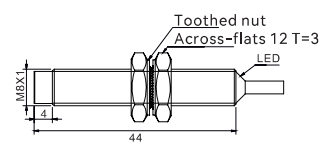
PXINDTLN08-04NO



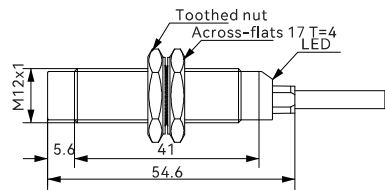
PXINDTRN08-02NO



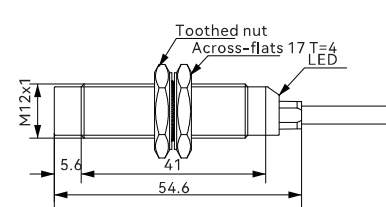
PXINDTYN08-06NO



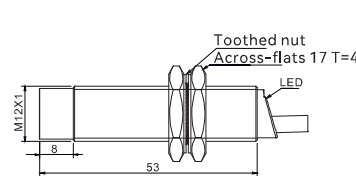
PXINDTLN12-08NO



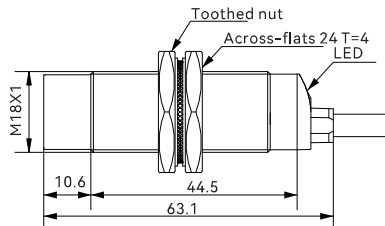
PXINDTRN12-04NO



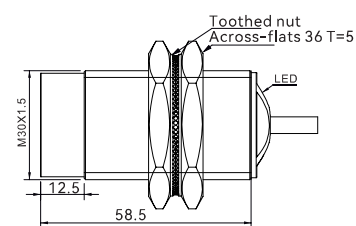
PXINDTYN12-10NO



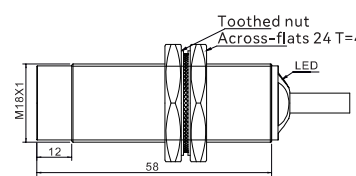
PXINDTLN18-16NO



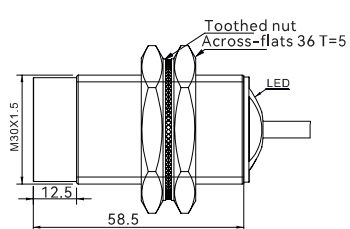
PXINDTRN30-15NO



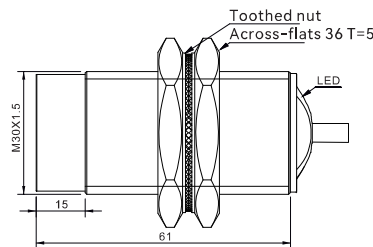
PXINDTYN18-20NO



PXINDTLN30-25NO



PXINDTYN30-40NO



PRECAUTIONS

- Make sure that the power is turned off when connecting the device.
- Make sure that the supply voltage changes within the rated range.
- If the power supply is supplied by a commercial switch regulator, make sure that the power supply ground terminal (F.G) is grounded.
- Be sure to ground the device ground terminal (F.G)
- Do not use within 0.5 sec of switching on the power.
- Do not run the line with a high voltage line or a power cord or in a wire tube, which may cause malfunction due to induction.
- Protect the device from dust and humidity.
- Avoid exposure or direct contact with water, oil, grease or organic solvents such as thinner.

WARRANTY

Warranty period

- The product warranty period is one year, from the date of delivery of the product to the date of purchase.

Warranty range

1. L-com will repair the product free of cost if there is a malfunction caused by L-com Company within the above-mentioned warranty period. But the following will not be covered by the warranty:
 - Damage caused due to failure in following operating instructions or user manual specifically, when the L-com company has fulfilled the technical requirements in the given environment.
 - Malfunction that occurs due to purchaser's equipment or software rather than product defects.
 - Malfunction caused by modifications or repairs by non-L-com company personnel. (Please ensure that correct repair or replacement of wearing parts is done in accordance with the operating instructions or provided user manual to avoid malfunction.)
 - Malfunction or inefficiency of the product after delivery caused due to unpredictable changes in science and technology.
 - Damage or malfunction caused by fire, earthquake, floods and/or other natural disasters or abnormal voltage and other external factors.
2. The warranty is limited to the conditions specified in Article (1), and L-com Company shall not be liable for any indirect loss (damage to equipment, loss of opportunity, loss of profits, etc.) or other loss caused by its equipment.

When installing a threaded sensor, please do not exceed the torque listed below:

Model No.	Tightening torque N
M4*0.5	1.5
M5*0.5	1.5
M8*1	3.5
M12*1	16
M18*1	28
M30*1.5	150