

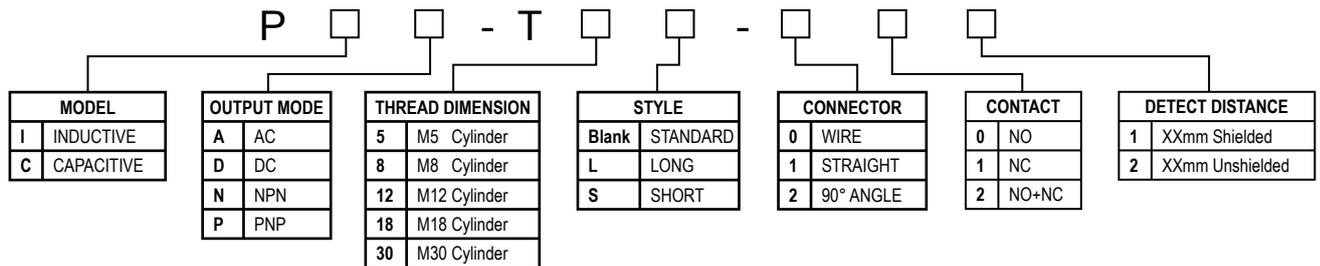
M18 - Long Housing - Inductive Sensor



Features:

- Inductive sensor, style: cylinder shape, diameter: 18mm.
- DC 2-wire (10-30V DC), DC 3-wire (10-30V DC), DC 4-wire (10-30V DC), AC 2-wire (90-250V AC), *DC 2-wire (5V DC) also available
- Connection mode: 3/4 wire or 3/4 pin connector
- Mounting distance: shielded (5mm), unshielded (8mm)
- With LED operation indicate lamp, easily identifiable
- Brass chrome plated, proof of oil, water acid, alkaline
- Standard sensing object: ferrous metals
- Protection rate: IP67, water resistant
- Over-current protection
- Widely applied in measuring, Counting, Rpm measuring in mechanism, chemical, paper manufacture light industry, etc.

ORDERING CODE INFORMATION



ORDERING CODES

Model and Type	Output Type	Mounting Distance	Current Output	Power Supply	Connector Model
PIN-T18L-001	NPN NO	5mm SHIELDED	≤ 200mA	DC 10-30V	3 WIRE
PIN-T18L-011	NPN NC	5mm SHIELDED	≤ 200mA	DC 10-30V	3 WIRE
PIN-T18L-002	NPN NO	8mm UNSHIELDED	≤ 200mA	DC 10-30V	3 WIRE
PIN-T18L-012	NPN NC	8mm UNSHIELDED	≤ 200mA	DC 10-30V	3 WIRE
PIN-T18L-021	NPN NO+NC	5mm SHIELDED	≤ 200mA	DC 10-30V	4 WIRE
PIN-T18L-022	NPN NO+NC	8mm UNSHIELDED	≤ 200mA	DC 10-30V	4 WIRE
PIN-T18L-101	NPN NO	5mm SHIELDED	≤ 200mA	DC 10-30V	STRAIGHT PLUG IN CONNECTOR
PIN-T18L-111	NPN NC	5mm SHIELDED	≤ 200mA	DC 10-30V	STRAIGHT PLUG IN CONNECTOR
PIN-T18L-102	NPN NO	8mm UNSHIELDED	≤ 200mA	DC 10-30V	STRAIGHT PLUG IN CONNECTOR
PIN-T18L-112	NPN NC	8mm UNSHIELDED	≤ 200mA	DC 10-30V	STRAIGHT PLUG IN CONNECTOR
PIN-T18L-121	NPN NO+NC	5mm SHIELDED	≤ 200mA	DC 10-30V	STRAIGHT PLUG IN CONNECTOR
PIN-T18L-122	NPN NO+NC	8mm UNSHIELDED	≤ 200mA	DC 10-30V	STRAIGHT PLUG IN CONNECTOR
PIN-T18L-201	NPN NO	5mm SHIELDED	≤ 200mA	DC 10-30V	90 DEGREE PLUG IN CONNECTOR
PIN-T18L-211	NPN NC	5mm SHIELDED	≤ 200mA	DC 10-30V	90 DEGREE PLUG IN CONNECTOR
PIN-T18L-202	NPN NO	8mm UNSHIELDED	≤ 200mA	DC 10-30V	90 DEGREE PLUG IN CONNECTOR
PIN-T18L-212	NPN NC	8mm UNSHIELDED	≤ 200mA	DC 10-30V	90 DEGREE PLUG IN CONNECTOR
PIN-T18L-221	NPN NO+NC	5mm SHIELDED	≤ 200mA	DC 10-30V	90 DEGREE PLUG IN CONNECTOR
PIN-T18L-222	NPN NO+NC	8mm UNSHIELDED	≤ 200mA	DC 10-30V	90 DEGREE PLUG IN CONNECTOR
PIP-T18L-001	PNP NO	5mm SHIELDED	≤ 200mA	DC 10-30V	3 WIRE
PIP-T18L-011	PNP NC	5mm SHIELDED	≤ 200mA	DC 10-30V	3 WIRE
PIP-T18L-002	PNP NO	8mm UNSHIELDED	≤ 200mA	DC 10-30V	3 WIRE
PIP-T18L-012	PNP NC	8mm UNSHIELDED	≤ 200mA	DC 10-30V	3 WIRE
PIP-T18L-021	PNP NO+NC	5mm SHIELDED	≤ 200mA	DC 10-30V	4 WIRE
PIP-T18L-022	PNP NO+NC	8mm UNSHIELDED	≤ 200mA	DC 10-30V	4 WIRE
PIP-T18L-101	PNP NO	5mm SHIELDED	≤ 200mA	DC 10-30V	STRAIGHT PLUG IN CONNECTOR
PIP-T18L-111	PNP NC	5mm SHIELDED	≤ 200mA	DC 10-30V	STRAIGHT PLUG IN CONNECTOR
PIP-T18L-102	PNP NO	8mm UNSHIELDED	≤ 200mA	DC 10-30V	STRAIGHT PLUG IN CONNECTOR
PIP-T18L-112	PNP NC	8mm UNSHIELDED	≤ 200mA	DC 10-30V	STRAIGHT PLUG IN CONNECTOR
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PIP-T18L-212	PNP NC	8mm UNSHIELDED	≤ 200mA	DC 10-30V	90 DEGREE PLUG IN CONNECTOR
PIP-T18L-221	PNP NO+NC	5mm SHIELDED	≤ 200mA	DC 10-30V	90 DEGREE PLUG IN CONNECTOR
PIP-T18L-222	PNP NO+NC	8mm UNSHIELDED	≤ 200mA	DC 10-30V	90 DEGREE PLUG IN CONNECTOR

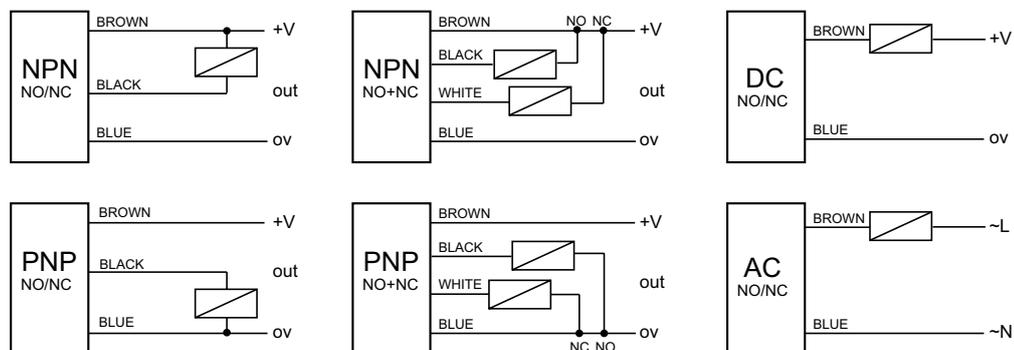
ORDERING CODES

Model and Type	Output Type	Mounting Distance	Current Output	Power Supply	Connector Model
PID-T18L-001	DC 2 WIRE NO	5mm SHIELDED	≤ 200mA	DC 10-30V	2 WIRE
PID-T18L-011	DC 2 WIRE NC	5mm SHIELDED	≤ 200mA	DC 10-30V	2 WIRE
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PID-T18L-012	DC 2 WIRE NC	8mm UNSHIELDED	≤ 200mA	DC 10-30V	2 WIRE
PIA-T18L-001	AC 2 WIRE NO	5mm SHIELDED	≤ 300mA	AC 90-250V	2 WIRE
PIA-T18L-011	AC 2 WIRE NC	5mm SHIELDED	≤ 300mA	AC 90-250V	2 WIRE
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PIA-T18L-202	AC 2 WIRE NO	8mm UNSHIELDED	≤ 300mA	AC 90-250V	90 DEGREE PLUG IN CONNECTOR
PIA-T18L-212	AC 2 WIRE NC	8mm UNSHIELDED	≤ 300mA	AC 90-250V	90 DEGREE PLUG IN CONNECTOR

TECHNICAL SPECIFICATIONS

Property Project	Specific Parameter
Mounting Distance	5mm shielded / 8mm unshielded
Sensing Distance	0...4.0mm shielded / 0...6.4mm unshielded
Power Supply	DC 10-30V / AC 90-250V
Frequency	700Hz/400Hz (DC 3/2 wires) / 25Hz (AC 2 wires)
Current Output (DC/AC)	200mA/300mA
Ambient Temperature	-20°C-70°C
Against Polarity Reversal	YES
Short Circuit Protected	3 wires: YES / 2 wires: NO
IP Rating	IP67

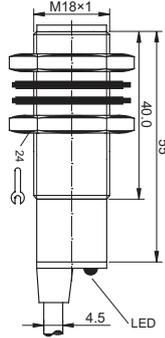
ELECTRICAL CONNECTION



PICTURE OF PRODUCT

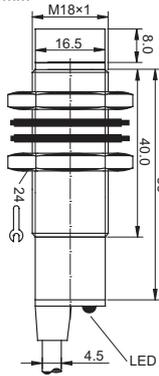
Flush (shielded)

Unit: mm



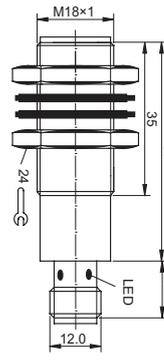
Non-Flush (unshielded)

Unit: mm



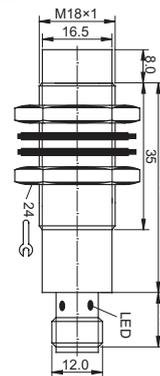
Flush (shielded)

Unit: mm



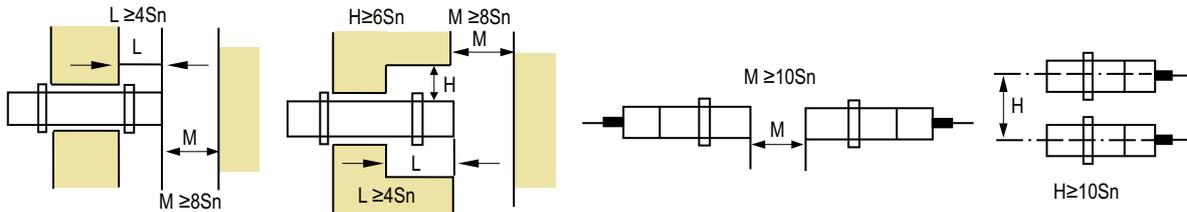
Non-Flush (unshielded)

Unit: mm



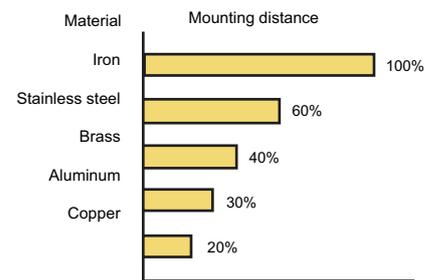
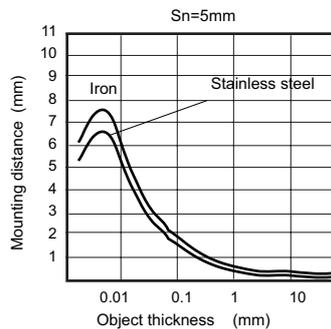
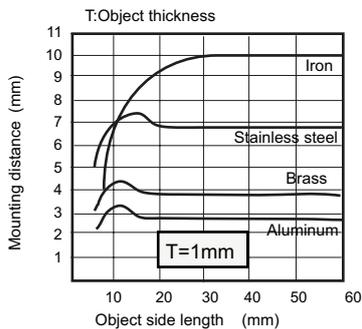
INSTALLATION

If used in an area surrounded by metal, install the proximity Sensor as follows. (Sn = Sensing distance)

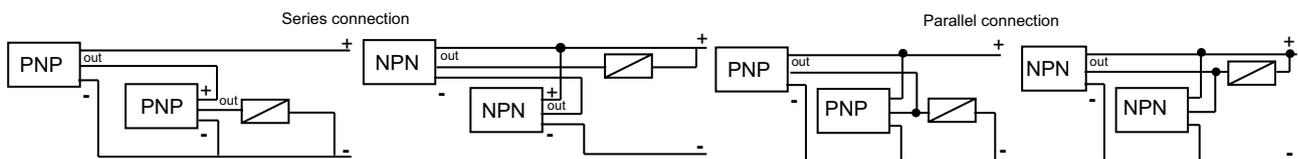


INDUCTIVE PROXIMITY APPLICATION DIRECTION

- Set mounting distance equal to 80% of Sn.
- Set mounting distance roughly equal to 50% of Sn when sensor is used measuring mounting frequency or operating in high speed circumstances.
- Mounting distance will change depending on material (iron, stainless steel, brass, copper and aluminum).



d. Inductive Proximity series connection and parallel connection



REV. NO.

REVISION NOTE

DATE

SIGNATURE

B

Datasheet Update

Jan 2009

LG

As part of the company policy of continued product improvement, specifications may change without notice. Our sales office will be pleased to help you with the latest information on this product range and the details of our full design and manufacturing service. All products are supplied to our standard conditions of sale unless otherwise agreed in writing.

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FORM AE043 ISS.2



ISO 9001:2000
Reg. No FM 21080

TAKE A LOOK AT OUR VARIETY OF PRODUCTS

