

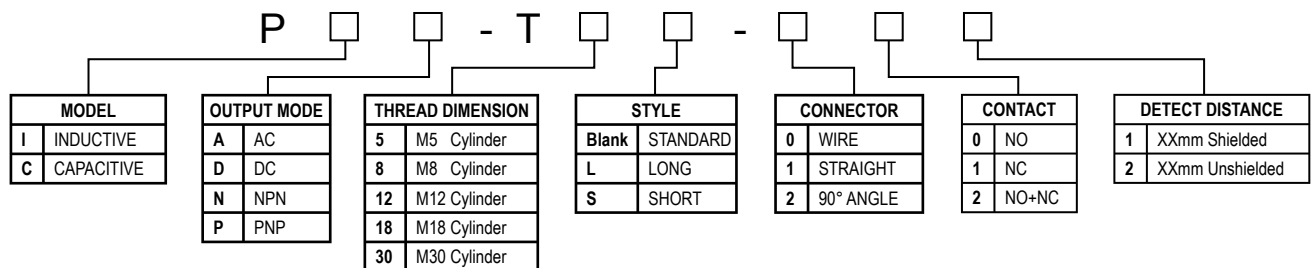
## M18 - Long Housing - Capacitive Sensor



### Features:

- Capacitive sensor, style: cylinder shape, diameter: 18mm.
- DC 3-wire (10-30V DC), DC 4-wire(10-30V DC), \*DC 2-wire (5V DC) also available on request.
- Mounting distance: 8mm unshielded
- 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

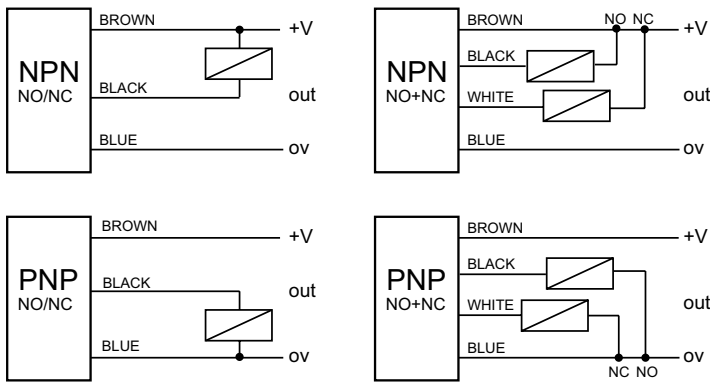


### ORDERING CODES

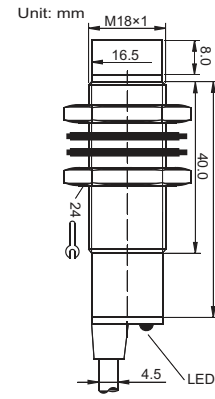
Model and Type	Output Type	Mounting Distance	Current Output	Power Supply	Connector Model
PCN-T18L-002	NPN NO	8mm UNSHIELDED	≤ 200mA	DC 10-30V	3 WIRE
PCN-T18L-012	NPN NC	8mm UNSHIELDED	≤ 200mA	DC 10-30V	3 WIRE
PCN-T18L-022	NPN NO + NC	8mm UNSHIELDED	≤ 200mA	DC 10-30V	4 WIRE
PCN-T18L-102	NPN NO	8mm UNSHIELDED	≤ 200mA	DC 10-30V	STRAIGHT PLUG IN CONNECTOR
PCN-T18L-112	NPN NC	8mm UNSHIELDED	≤ 200mA	DC 10-30V	STRAIGHT PLUG IN CONNECTOR
PCN-T18L-122	NPN NO + NC	8mm UNSHIELDED	≤ 200mA	DC 10-30V	STRAIGHT PLUG IN CONNECTOR
PCN-T18L-202	NPN NO	8mm UNSHIELDED	≤ 200mA	DC 10-30V	90 DEGREE PLUG IN CONNECTOR
PCN-T18L-212	NPN NC	8mm UNSHIELDED	≤ 200mA	DC 10-30V	90 DEGREE PLUG IN CONNECTOR
PCN-T18L-222	NPN NO + NC	8mm UNSHIELDED	≤ 200mA	DC 10-30V	90 DEGREE PLUG IN CONNECTOR
PCP-T18L-002	PNP NO	8mm UNSHIELDED	≤ 200mA	DC 10-30V	3 WIRE
PCP-T18L-012	PNP NC	8mm UNSHIELDED	≤ 200mA	DC 10-30V	3 WIRE
PCP-T18L-022	PNP NO + NC	8mm UNSHIELDED	≤ 200mA	DC 10-30V	4 WIRE
PCP-T18L-102	PNP NO	8mm UNSHIELDED	≤ 200mA	DC 10-30V	STRAIGHT PLUG IN CONNECTOR
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PCP-T18L-122	PNP NO + NC	8mm UNSHIELDED	≤ 200mA	DC 10-30V	STRAIGHT PLUG IN CONNECTOR
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PCP-T18L-212	PNP NC	8mm UNSHIELDED	≤ 200mA	DC 10-30V	90 DEGREE PLUG IN CONNECTOR
PCP-T18L-222	PNP NO + NC	8mm UNSHIELDED	≤ 200mA	DC 10-30V	90 DEGREE PLUG IN CONNECTOR

### TECHNICAL SPECIFICATIONS

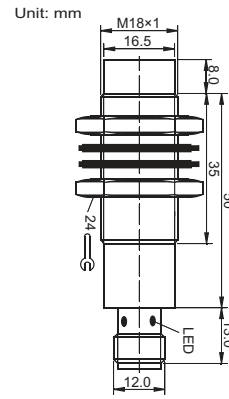
Property Project	Specific Parameter
Mounting Distance	8mm unshielded
Sensing Distance	0...6.4mm
Power Supply	10-30V DC
Frequency	30Hz
Current Output	200mA
Ambient Temperature	-25°C-70°C
Against Polarity Reversal	YES
IP Rating	IP67



Nonflush (unshielded)

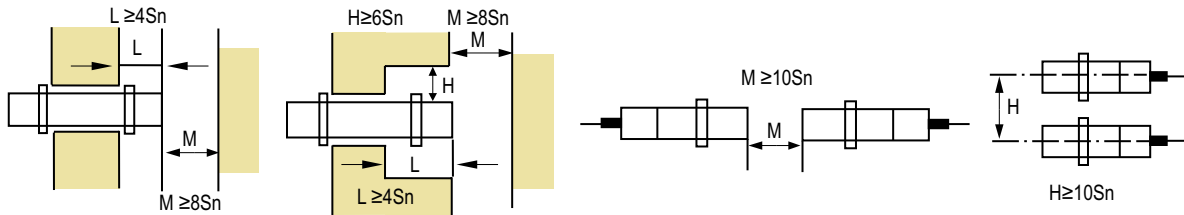


Nonflush (unshielded)



INSTALLATION

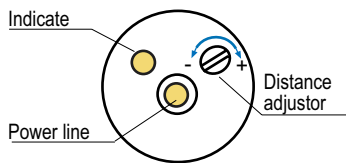
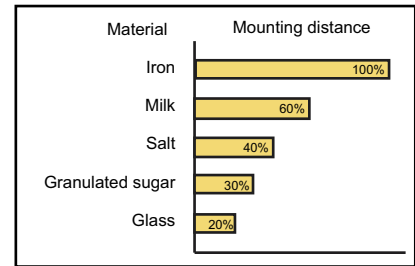
If used in an area surrounded by metal, Install the proximity Sensor as follows . (Sn = Sensing distance)



CAPACITIVE PROXIMITY SENSOR MOUNTING DISTANCE SETTING

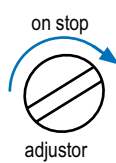
- a. Capacitive proximity sensors can measure both metal and non-metalic objects, such as iron, water, oil, glass, plastic, etc... The mounting distance will vary depending on the material being sensed, Due to differing object conductivity, permittivity, and water absorption. If the metal connects with ground (GND) then maximum sensing distance will be achieved.
- b. Table F6.1 shows how the mounting distance will change depending on material being sensed.
- c. The mounting distance of CPS Capacitive proximity sensor can be adjusted. This must be adjusted before installation, not after. Please refer to F6.2
- d. When operating, the Capacitive proximity sensor should be kept well away from high frequency electromagnetism, for example ultrasonics, and high frequency welding machines.

F6.1



F6.2

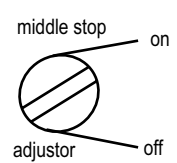
- Adjustor turns right Sn increases, turns left Sn decreases, the circle of Sn adjustor about ten



- Without object ,turn adjustor right to the on stop



- Approaching object, turn adjustor left to the off stop



- At last set the adjust in the middle of on and off position

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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TAKE A LOOK AT OUR VARIETY OF PRODUCTS

