

# Inductive Sensor M18 - Long Housing



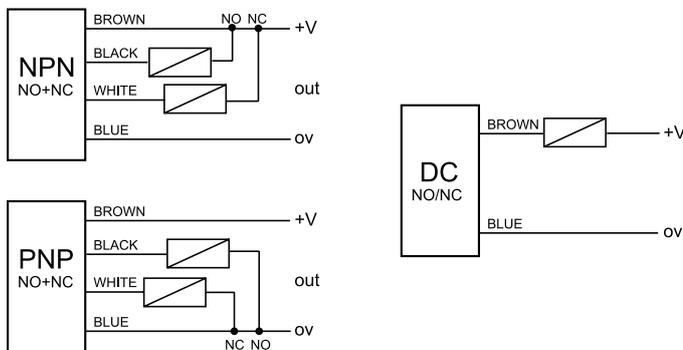
## Features:

- Inductive sensor
- Shielded type (5mm)
- With LED operation indicate lamp, easily identifiable
- Brass chrome plated, proof of oil, water acid, alkaline
- Over-current protection
- Widely applied in measuring, Counting, Rpm measuring in mechanism, chemical, paper manufacture light industry, etc.

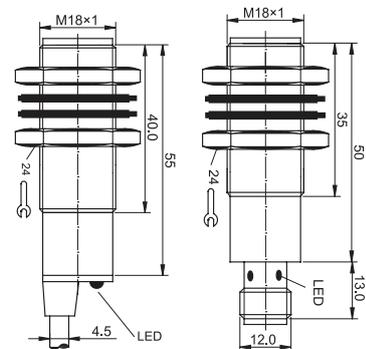
## Specifications:

|                           |                              |
|---------------------------|------------------------------|
| Style                     | : Cylinder shape             |
| Sensing Distance          | : 0 to 4mm shielded          |
| Diameter                  | : 18mm                       |
| Mounting Distance         | : Shielded (5mm)             |
| Standard Sensing Object   | : ferrous metals             |
| Protection Rate           | : IP67, water resistant      |
| Frequency                 | : 700Hz/400Hz (DC 3/2 wires) |
| Current Output (DC/AC)    | : ≤ 200mA                    |
| Power Supply              | : 10 to 30V DC               |
| Ambient temperature       | : -20°C to +70°C             |
| Against Polarity Reversal | : YES                        |

## Electrical Connection:



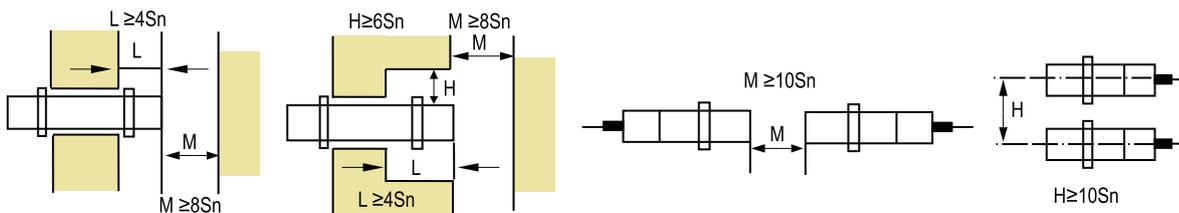
## Picture of Product



Shielded Dimensions : Millimetres

## Installation

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

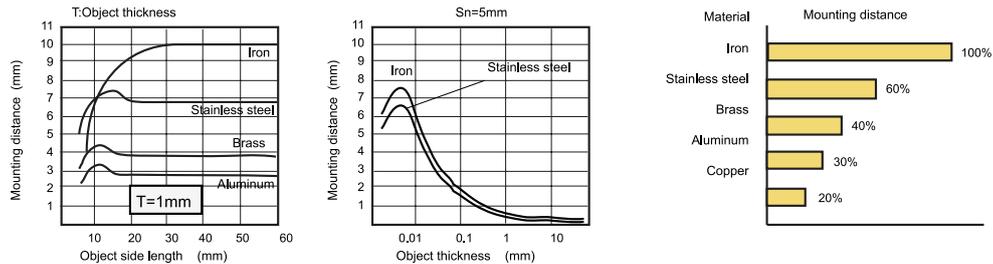


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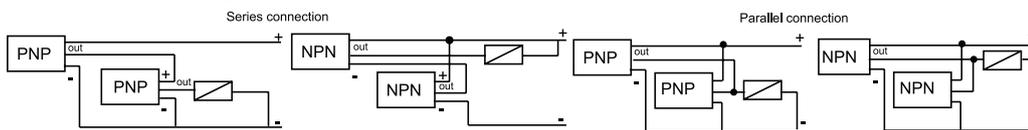


## Inductive Proximity Application Direction

- 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



## Part Number Table

| Description                     | Connector Model            | Output Type | Part Number    |
|---------------------------------|----------------------------|-------------|----------------|
| Sensor, M18, NPN, Shielded, NO  | 3 Wire                     | NPN NO      | MCPIN-T18L-001 |
| Sensor, M18, NPN, Shielded, NC  | 3 Wire                     | NPN NC      | MCPIN-T18L-011 |
| Sensor, M18, NPN, Shielded, NO  | Straight Plug In Connector | NPN NO      | MCPIN-T18L-101 |
| Sensor, M18, NPN, Shielded, NC  | Straight Plug In Connector | NPN NC      | MCPIN-T18L-111 |
| Sensor, M18, PNP, Shielded, NO  | 3 Wire                     | PNP NO      | MCPIP-T18L-001 |
| Sensor, M18, PNP, Shielded, NC  | 3 Wire                     | PNP NC      | MCPIP-T18L-011 |
| Sensor, Inductive, 4mm, 10V-30V | Straight Plug In Connector | PNP NO      | MCPIP-T18L-101 |
| Sensor, Inductive, 4mm, 10V-30V | Straight Plug In Connector | PNP NC      | MCPIP-T18L-111 |

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