

# Inductive Proximity Sensor - 17mm Square Plastic Housing

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**RoHS  
Compliant**



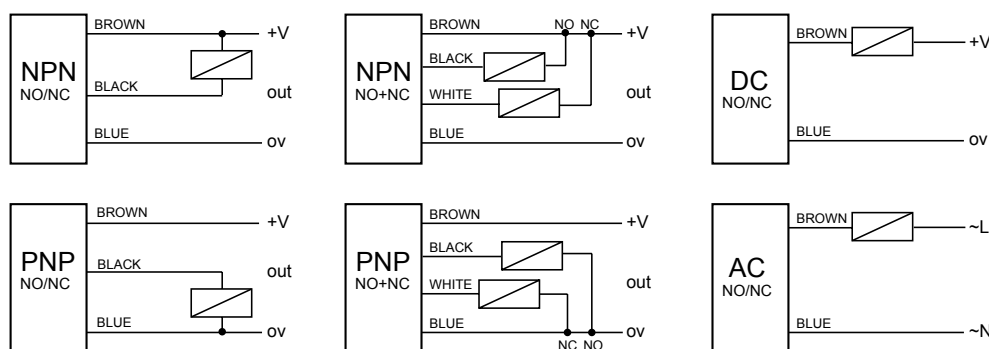
### Features

- Inductive sensor, style: squared shape, 17mm × 17mm × 28mm
- Mounting distance: 5mm shielded
- With LED operation indicate lamp, easily identifiable
- Standard sensing object: ferrous metals
- Protection rate: IP67, water resistant
- Over-current and short circuit protection; against polarity reversal.
- Widely applied in measuring, Counting, Rpm measuring in mechanism, chemical, paper manufacture light industry, etc.

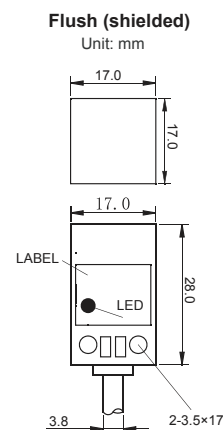
### Specifications

|                           |  |
|---------------------------|--|
| Mounting Distance         | : 5mm shielded                                     |
| Sensing Distance          | : 4.5mm shielded                                   |
| Power Supply              | : 10V DC to 30V DC/ 90V AC to 250V AC              |
| Frequency                 | : 500Hz / 250Hz (DC 3/2 wires) / 25Hz (AC 2 wires) |
| Current Output (DC/AC)    | : 200mA/300mA                                      |
| Ambient Temperature       | : -20°C to 70°C                                    |
| Against Polarity Reversal | : Yes  |
| Short Circuit Protected   | : 3 wires: Yes / 2 wires: No                       |
| IP Rating                 | : IP67   |

### Electrical Connection



### Picture Of Product



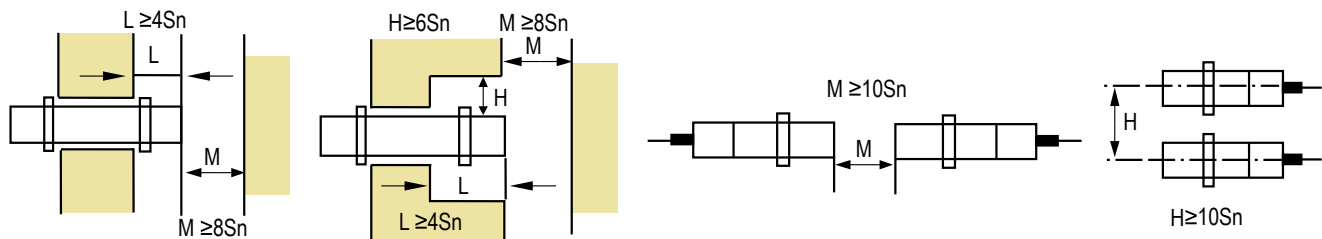
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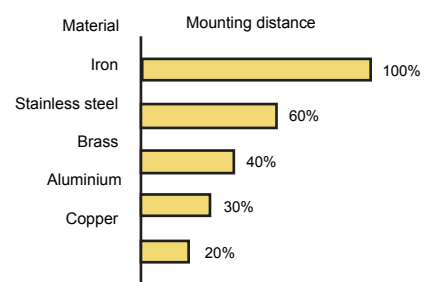
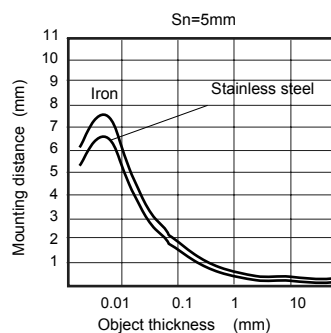
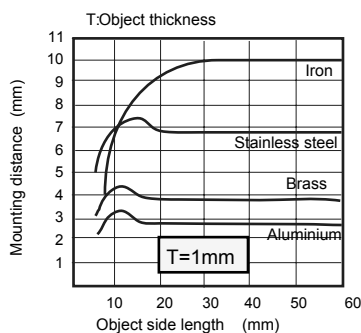
## Installation

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

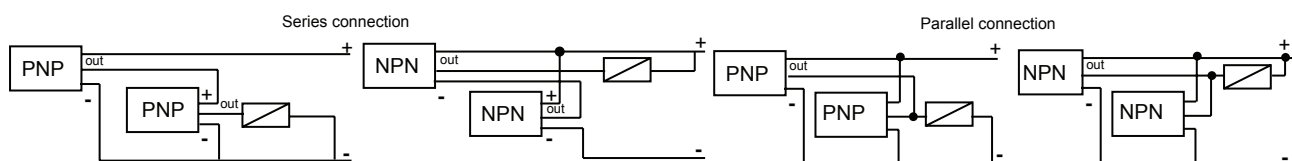


## Inductive Proximity Application Direction

- Set mounting distance equal to 80% of  $S_n$ .
- Set mounting distance roughly equal to 50% of  $S_n$  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 aluminium).



## D. Inductive Proximity series connection and parallel connection


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**Part Number Table**

| Part Number | Output Type | Mounting Distance | Current Output | Power Supply      | Wire Connector |
|-------------|-------------|-------------------|----------------|-------------------|----------------|
| MP002207    | NPN NO      | 5mm Shielded      | ≤ 200mA        | 10V DC to 30V DC  | 3 Wire         |
| MP002208    | NPN NC      |                   |                |                   | 4 Wire         |
| MP002209    | NPN NO + NC |                   |                |                   | 3 Wire         |
| MP002210    | PNP NO      |                   |                |                   | 4 Wire         |
| MP002211    | PNP NC      |                   |                |                   | 2 Wire         |
| MP002212    | PNP NO + NC |                   |                |                   |                |
| MP002213    | DC NO       |                   |                |                   |                |
| MP002214    | DC NC       |                   |                |                   |                |
| MP002215    | AC NO       |                   | ≤ 300mA        | 90V AC to 250V AC |                |
| MP002216    | AC NC       |                   |                |                   |                |

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