

# Inductive Proximity Sensor - 18mm Square Plastic Housing

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**RoHS  
Compliant**

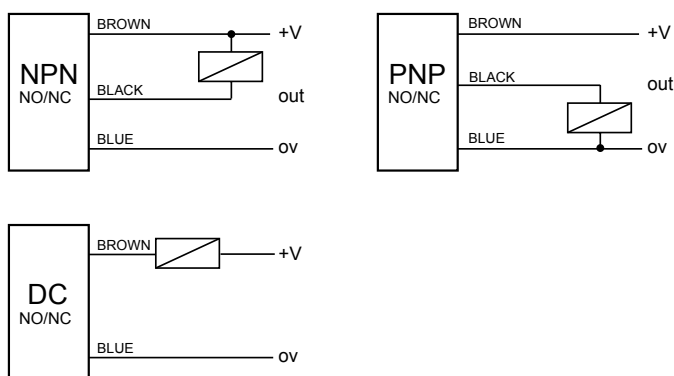

## Features

- Inductive sensor, style: squared shape, 18mm × 18mm × 36mm
- 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
Frequency	: 500Hz / 250Hz (DC 3/2 wires)
Current Output (DC/AC)	: 200mA
Ambient Temperature	: -20°C to 70°C
Against Polarity Reversal	: Yes
Short Circuit Protected	: 3 wires: Yes / 2 wires: No
IP Rating	: IP67

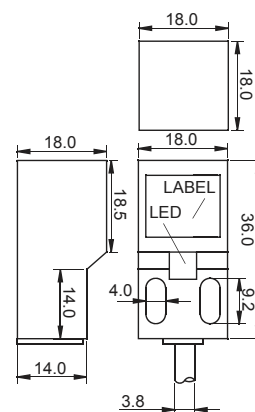
## Electrical Connection



## Picture Of Product

**Flush (shielded)**

Unit: mm

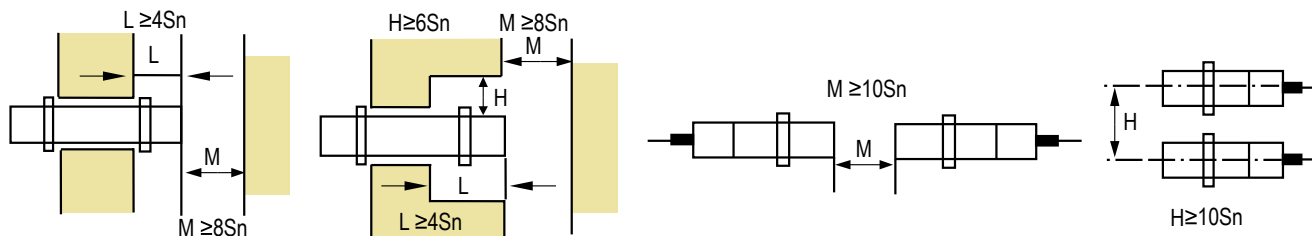

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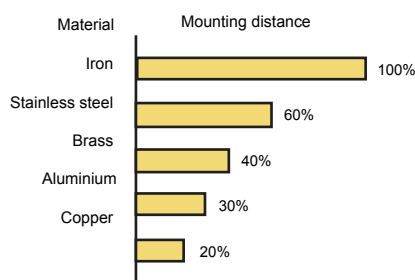
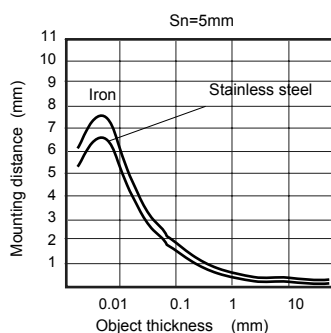
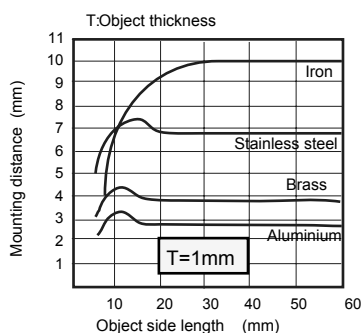
## Installation

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

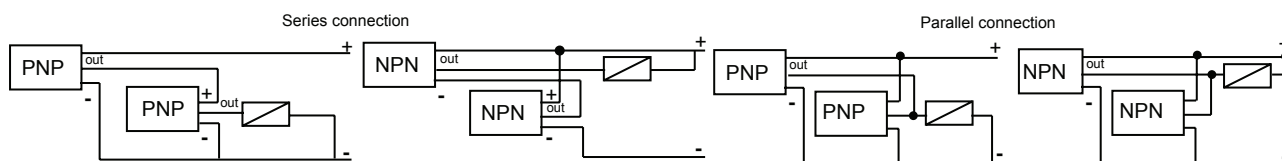


## Inductive Proximity Application Direction

- 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 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
MP002223	NPN NO	5mm Shielded	$\leq 200\text{mA}$	10V DC to 30V DC	3 Wire
MP002224	NPN NC				
MP002225	PNP NO				
MP002226	PNP NC				
MP002227	DC NO				2 Wire
MP002228	DC NC				

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