Inductive Proximity Sensor
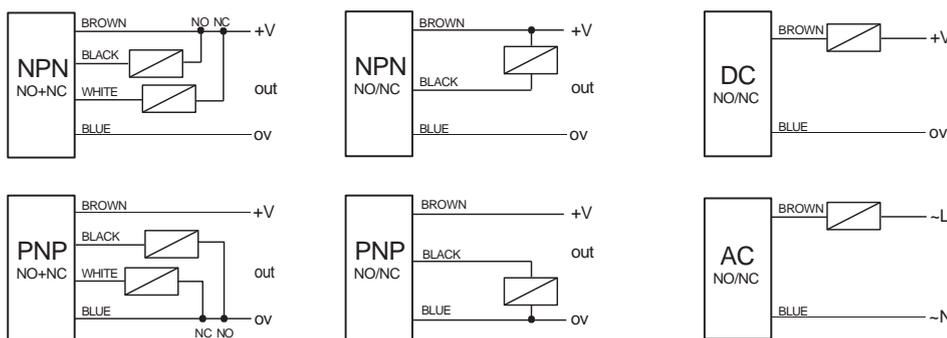# 25mm Square Plastic Housing

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Features

- Inductive sensor, style: squared shape, 25mm × 25mm × 39mm
- Mounting distance: 8mm 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.
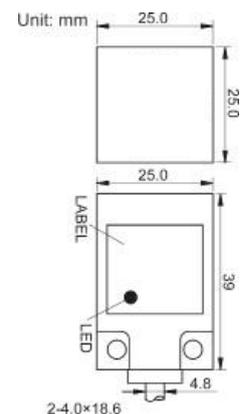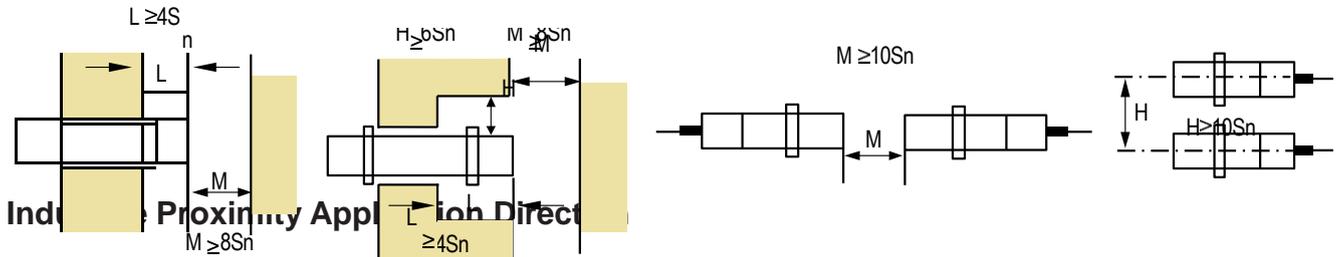
Specifications

Mounting Distance	: 8mm shielded
Sensing Distance	: 7.2mm shielded
Power Supply	: 10V DC to 30V DC / 90V AC to 250V AC
Frequency	: 80Hz / 40Hz / 20Hz (DC 3/2 wires, AC 2 wires)
Current Output (DC/AC)	: 200mA / 300mA
Ambient Temperature	: -15°C to 60°C
Against Polarity Reversal	: Yes
Short Circuit Protected	: Yes
IP Rating	: IP67

Electrical Connection

Picture of Product

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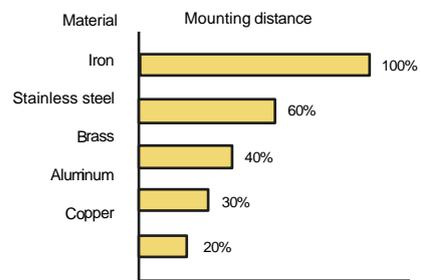
Inductive Proximity Sensor
25mm Square Plastic Housing

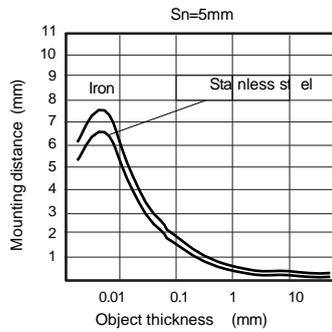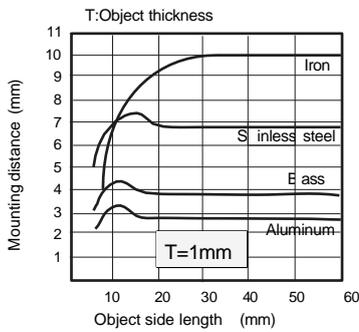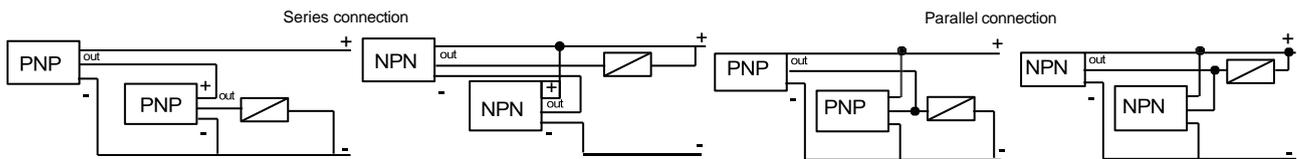## Installation

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

$L \geq 4S$
n
L
M
$M \geq 8Sn$

$H \geq 6Sn$ $M \geq 3Sn$
H
$\geq 4Sn$

$M \geq 10Sn$
M

H
$H \geq 10Sn$

Inductive Proximity Application Direction

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

T:Object thickness

Mounting distance (mm)

Iron
Stainless steel
Brass
Aluminum
T=1mm

Object side length (mm)

Sn=5mm

Mounting distance (mm)

Iron
Stainless steel

Object thickness (mm)

Material	Mounting distance	
Iron		100%
Stainless steel		60%
Brass		40%
Aluminum		30%
Copper		20%

D. Ips series connection and parallel connection.

Series connection

PNP   out
PNP   + out

NPN   out
NPN   + out

Parallel connection

PNP   out
PNP

NPN   out
NPN

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Part Number Table

Part Number	Output Type	Mounting Distance	Current Output	Power Supply	Wire Connector
MP002239	NPN NO				3 Wire
MP002240	NPN NC				3 Wire
MP002241	NPN NO + NC				4 Wire
MP002242	PNP NO		≤ 200mA/300mA	24V DC / 220V AC	3 Wire
MP002243	PNP NC	8mm Shielded			3 Wire
MP002244	PNP NO + NC				4 Wire
MP002245	DC NO			24V DC	
MP002246	DC NC		≤ 200mA		2 Wire
MP002247	AC NO			220V AC	
MP002248	AC NC				

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