

## S60 - Square Plastic Housing - Inductive Sensor



### Features:

- Inductive sensor, style: squared shape, Dim: 55x41x120mm
- DC 2-wire (10-30V DC), DC 3-wire (10-30V DC), DC 4-wire (10-30V DC), AC 2-wire (90-250V AC), \*DC 2-wire (5V DC) also available
- Mounting distance: 25mm 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.

### ORDERING CODE INFORMATION

| MODEL |            | OUTPUT MODE |     | SQUARED DIMENSION |             | STYLE |              | CONNECTOR |           | CONTACT |       | DETECT DISTANCE |                 |
|-------|------------|-------------|-----|-------------------|-------------|-------|--------------|-----------|-----------|---------|-------|-----------------|-----------------|
| I     | INDUCTIVE  | A           | AC  | 17                | 17mm Square | Blank | STANDARD     | 0         | WIRE      | 0       | NO    | 1               | XXmm Shielded   |
| C     | CAPACITIVE | D           | DC  | 18                | 18mm Square | A     | CUSTOMIZED 1 | 1         | STRAIGHT  | 1       | NC    | 2               | XXmm Unshielded |
|       |            | N           | NPN | 20                | 20mm Square | B     | CUSTOMIZED 2 | 2         | 90° ANGLE | 2       | NO+NC |                 |                 |
|       |            | P           | PNP | 30                | 30mm Square |       |              | 3         | SOCKET    |         |       |                 |                 |
|       |            |             |     | 40                | 40mm Square |       |              |           |           |         |       |                 |                 |
|       |            |             |     | 41                | 41mm Square |       |              |           |           |         |       |                 |                 |

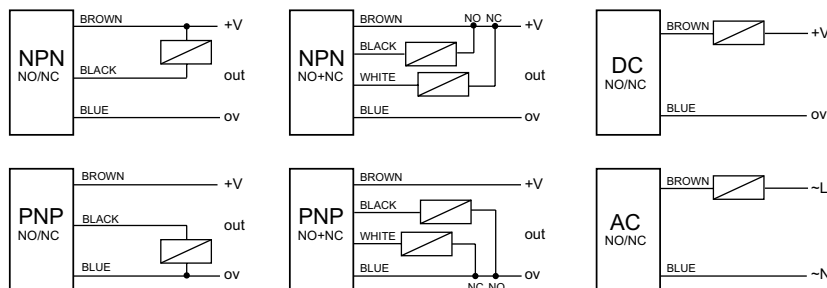
### ORDERING CODES

| Model and Type | Output Type | Mounting Distance | Current Output | Power Supply | Connector Model |
|----------------|-------------|-------------------|----------------|--------------|-----------------|
| PIN-S60-001    | NPN NO      | 25mm SHIELDED     | 200mA          | DC 10-30V    | 3 WIRE          |
| PIN-S60-011    | NPN NC      | 25mm SHIELDED     | 200mA          | DC 10-30V    | 3 WIRE          |
| PIN-S60-021    | NPN NO + NC | 25mm SHIELDED     | 200mA          | DC 10-30V    | 4 WIRE          |
| PIP-S60-001    | PNP NO      | 25mm SHIELDED     | 200mA          | DC 10-30V    | 3 WIRE          |
| PIP-S60-011    | PNP NC      | 25mm SHIELDED     | 200mA          | DC 10-30V    | 3 WIRE          |
| PIP-S60-021    | PNP NO + NC | 25mm SHIELDED     | 200mA          | DC 10-30V    | 4 WIRE          |
| PID-S60-001    | DC NO       | 25mm SHIELDED     | 200mA          | DC 10-30V    | 2 WIRE          |
| PID-S60-011    | DC NC       | 25mm SHIELDED     | 200mA          | DC 10-30V    | 2 WIRE          |
| PIA-S60-001    | AC NO       | 25mm SHIELDED     | 300mA          | AC 90-250V   | 2 WIRE          |
| PIA-S60-011    | AC NC       | 25mm SHIELDED     | 300mA          | AC 90-250V   | 2 WIRE          |

### TECHNICAL SPECIFICATIONS

| Property Project          | Specific Parameter                           |
|---------------------------|--|
| Mounting Distance         | 25mm shielded                                |
| Sensing Distance          | 0...22.5mm shielded                          |
| Power Supply              | DC 10-30V / AC 90-250V                       |
| Frequency                 | 80Hz/40Hz (DC 3/2 wires) / 20Hz (AC 2 wires) |
| Current Output (DC)       | 200mA/300mA                                  |
| Ambient Temperature       | -20°C-70°C                                   |
| Against Polarity Reversal | YES  |
| Short Circuit Protected   | 3 wires: YES / 2 wires: NO                   |
| IP Rating                 | IP67   |

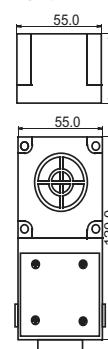
### ELECTRICAL CONNECTION



### PICTURE OF PRODUCT

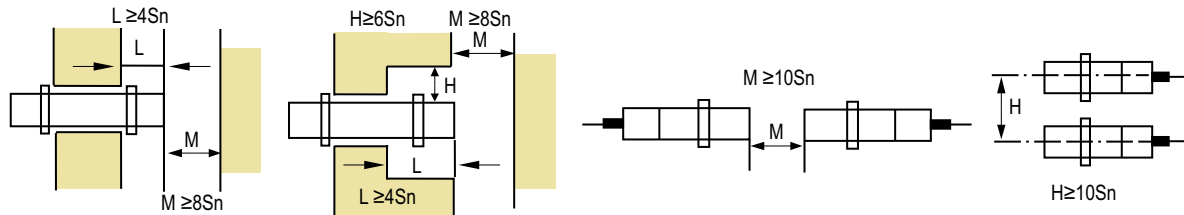
#### Flush (shielded)

Unit: mm



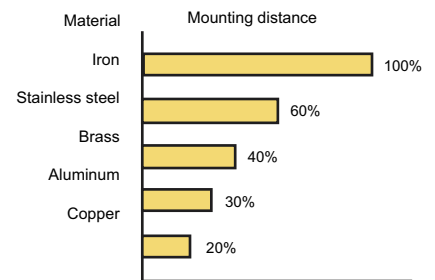
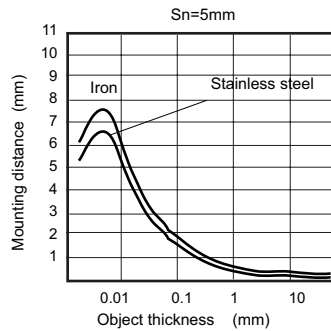
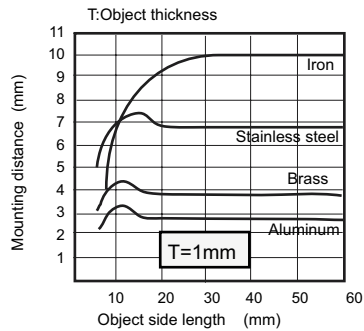
## INSTALLATION

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

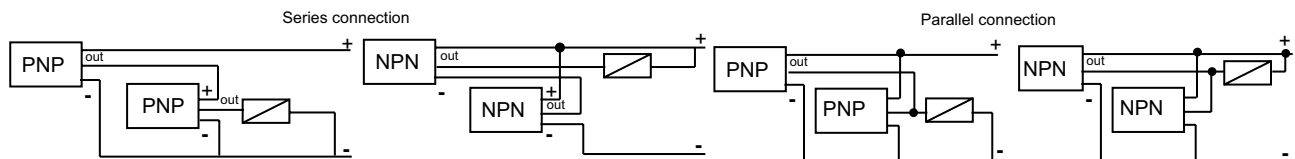


## INDUCTIVE PROXIMITY APPLICATION DIRECTION

- 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 aluminum).



d. Inductive Proximity series connection and parallel connection



| 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

