

## F54 - Protruding Plastic Housing - Inductive Sensor



### Features:

- Inductive sensor, Dim: 54x35x76.8mm, protruding
- 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 unshielded
- 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		PROTRUDING DIMENSION		STYLE		CONNECTOR		CONTACT		DETECT DISTANCE	
I	INDUCTIVE	A	AC	36	36mm Diameter	Blank	STANDARD	0	WIRE	0	NO	1	XXmm Shielded
C	CAPACITIVE	D	DC	42	42mm Diameter	A	CUSTOMIZED 1	1	STRAIGHT	1	NC	2	XXmm Unshielded
		N	NPN	47	47mm Diameter	B	CUSTOMIZED 2	2	90° ANGLE	2	NO+NC		
		P	PNP	50	50mm Diameter								
				54	54mm Diameter								
				60	60mm Diameter								
				80	80mm Diameter								
				100	100mm Diameter								
				120	120mm Diameter								

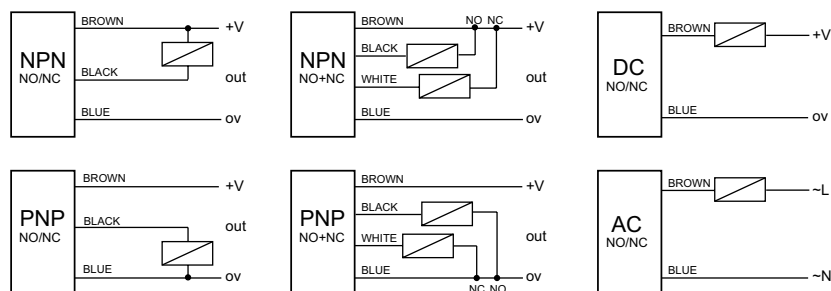
### ORDERING CODES

Model and Type	Output Type	Mounting Distance	Current Output	Power Supply	Connector Model
PIN-F54-002	NPN NO	25mm UNSHIELDED	200mA	DC 10-30V	3 WIRE
PIN-F54-012	NPN NC	25mm UNSHIELDED	200mA	DC 10-30V	3 WIRE
PIN-F54-022	NPN NO + NC	25mm UNSHIELDED	200mA	DC 10-30V	4 WIRE
PIP-F54-002	PNP NO	25mm UNSHIELDED	200mA	DC 10-30V	3 WIRE
PIP-F54-012	PNP NC	25mm UNSHIELDED	200mA	DC 10-30V	3 WIRE
PIP-F54-022	PNP NO + NC	25mm UNSHIELDED	200mA	DC 10-30V	4 WIRE
PID-F54-002	DC NO	25mm UNSHIELDED	200mA	DC 10-30V	2 WIRE
PID-F54-012	DC NC	25mm UNSHIELDED	200mA	DC 10-30V	2 WIRE
PIA-F54-002	AC NO	25mm UNSHIELDED	300mA	AC 90-250V	2 WIRE
PIA-F54-012	AC NC	25mm UNSHIELDED	300mA	AC 90-250V	2 WIRE

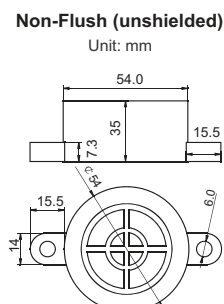
### TECHNICAL SPECIFICATIONS

Property Project	Specific Parameter
Mounting Distance	25mm unshielded
Sensing Distance	0...22.5mm unshielded
Power Supply	DC 10-30V / AC 90-250V
Frequency	150Hz/75Hz (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

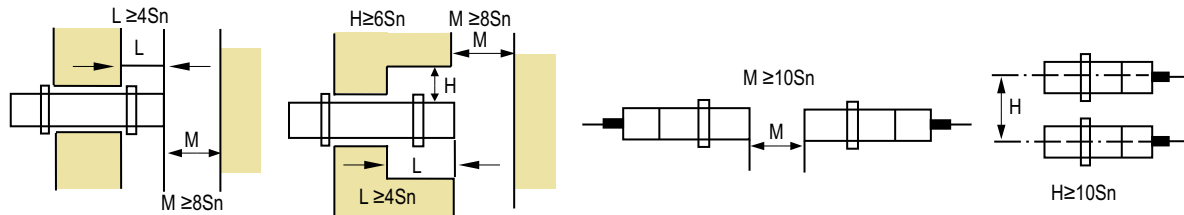


### PICTURE OF PRODUCT



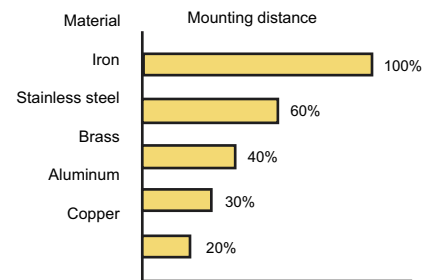
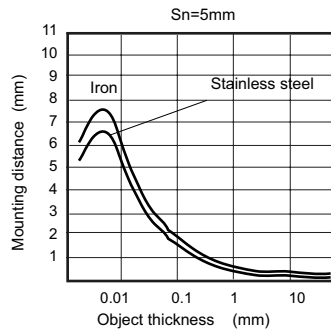
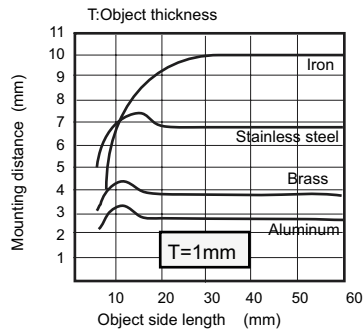
## INSTALLATION

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

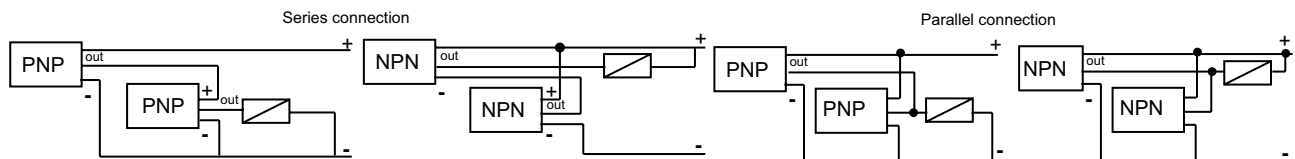


## INDUCTIVE PROXIMITY APPLICATION DIRECTION

- 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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