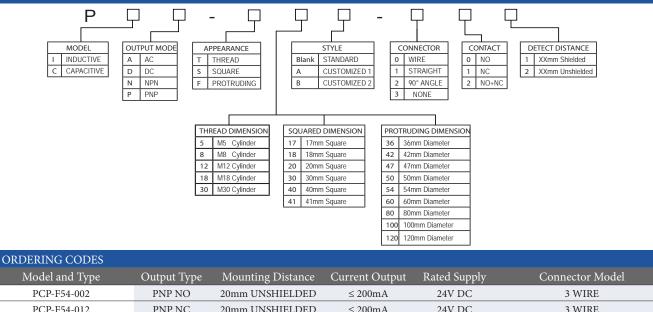
COMUS Group



F54 - Protruding Plastic Housing - Capacitive Sensor

- Features:
- Capacitive sensor, style: circular shape, Dim: 54dia x 35mm
- DC 2-wire (10-30V DC), DC 3-wire (10-30V DC), DC 4-wire (10-30V DC) AC-2 (90-250V AC)
- 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.

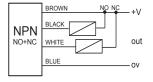
ORDERING CODE INFORMATION

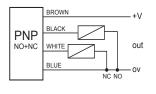


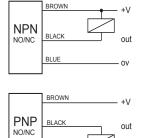
PCP-F54-012	PNP NC	20mm UNSHIELDED	$\leq 200 \text{mA}$	24V DC	3 WIRE
PCP-F54-022	PNP NO + NC	20mm UNSHIELDED	$\leq 200 \mathrm{mA}$	24V DC	4 WIRE
PCN-F54-002	NPN NO	20mm UNSHIELDED	$\leq 200 \mathrm{mA}$	24V DC	3 WIRE
PCN-F54-012	NPN NC	20mm UNSHIELDED	$\leq 200 \text{mA}$	24V DC	3 WIRE
PCN-F54-022	NPN NO + NC	20mm UNSHIELDED	$\leq 200 \mathrm{mA}$	24V DC	4 WIRE
PCA-F54-012	NO	20mm UNSHIELDED	≤ 300mA	220V AC	2 WIRE
PCA-F54-022	NC	20mm UNSHIELDED	≤ 300mA	220V AC	2 WIRE

TECHNICAL SPECIFICATIONS				
Property Project	Specific Parameter			
Mounting Distance	25mm unshielded			
Sensing Distance	022.5mm unshielded			
Power Supply	DC 10-30V / 90-250V AC			
Frequency	30Hz (DC 3/4 wires) 10Hz AC			
Current Output (DC/AC)	200mA / 300mA			
Ambient Temperature	-15°C60°C			
Against Polarity Reversal	YES			
Short Circuit Protected	YES			
IP Rating	IP67			

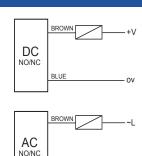
ELECTRICAL CONNECTION







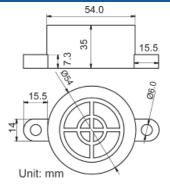
BLUE



BLUE

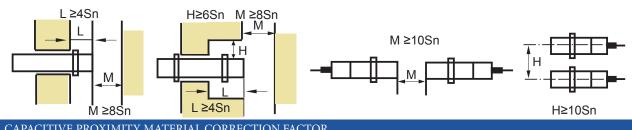
~N

DIMENSIONS OF PRODUCT



INSTALLATION

If used in an area surrounded by metal install the proximity sensor as follows . (Sn = sensing distance)



Material

Iron

Milk

Salt

Glass

Granulated sugar

Mounting distance

40%

30%

20%

60%

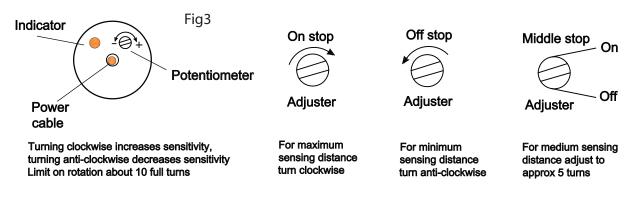
100%

CAPACITIVE PROXIMITY MATERIAL CORRECTION FACTOR

a. Capacitive proximity sensors can measure both metal and non metal objects such as iron, water, oil, glass, plastic....etc. The mounting distance varies with different objects because of differing object conductivity, permittivity and water absorbtion. If the metal connects with ground (GND) the maximum mounting distance can be obtained.

b. The mounting distance of capacitive proximity sensors can be adjusted and the mounting distance must be adjusted before installing, instead of after. For adjustment please refer to fig 3.

c. During normal operation the sensor should be positioned away from interference such electro magnetic frequency or other sensors mounted too close



REV. NO.	REVISION NOTE	DATE	SIGNATURE
1	Datasheet	Dec 2011	ML

As part of the company policy of continued product improvement, specifications may change without notice. Our sales office wil 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.



Page 2