

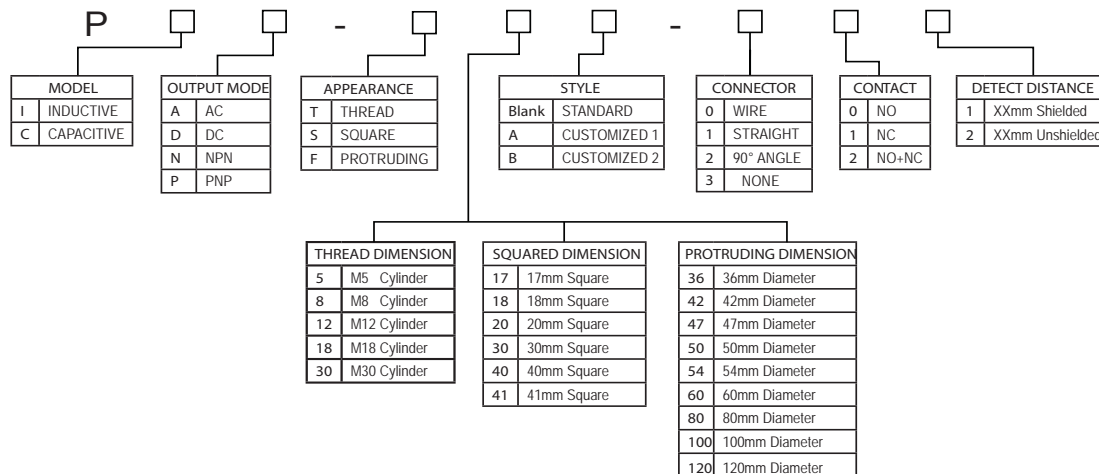
S41 - Square Plastic Housing - Capacitive Sensor



Features:

- Capacitive sensor, style: squared shape, Dim: 41.2x40.5x53mm
- DC 2-wire (10-30V DC), DC 3-wire (10-30V DC), DC 4-wire (10-30V DC), AC 2-wire (90-250V AC)
- Mounting distance: 20mm 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



ORDERING CODES

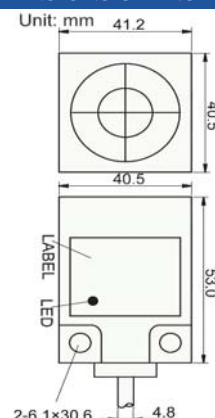
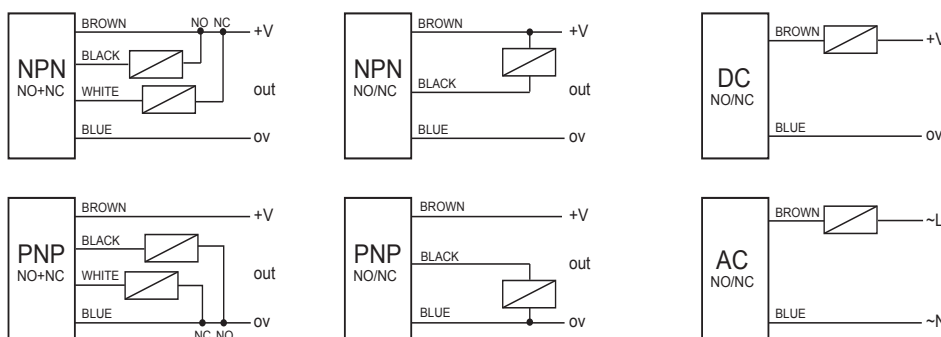
Model and Type	Output Type	Mounting Distance	Current Output	Rated Supply	Connector Model
PCP-S41-002	PNP NO	20mm UNSHIELDED	≤ 200mA	24V DC / 220V AC	3 WIRE
PCP-S41-012	PNP NC	20mm UNSHIELDED	≤ 200mA	24V DC / 220V AC	3 WIRE
PCP-S41-022	PNP NO + NC	20mm UNSHIELDED	≤ 200mA	24V DC / 220V AC	4 WIRE
PCN-S41-002	NPN NO	20mm UNSHIELDED	≤ 200mA	24V DC / 220V AC	3 WIRE
PCN-S41-012	NPN NC	20mm UNSHIELDED	≤ 200mA	24V DC / 220V AC	3 WIRE
PCN-S41-022	NPN NO + NC	20mm UNSHIELDED	≤ 200mA	24V DC / 220V AC	4 WIRE
PCA-S41-002	AC NO	20mm UNSHIELDED	≤ 200mA	90-250V AC	2 WIRE
PCA-S41-012	AC NC	20mm UNSHIELDED	≤ 200mA	90-250V AC	2 WIRE

TECHNICAL SPECIFICATIONS

Property Project	Specific Parameter
Mounting Distance	20mm unshielded
Sensing Distance	0...18.0mm unshielded
Power Supply	DC 10-30V / AC 90-250V
Frequency	30Hz (DC 3/4 wires) / 10Hz (AC 2 wires)
Current Output (DC/AC)	200mA/300mA
Ambient Temperature	-15°C...60°C
Against Polarity Reversal	YES
Short Circuit Protected	YES
IP Rating	IP67

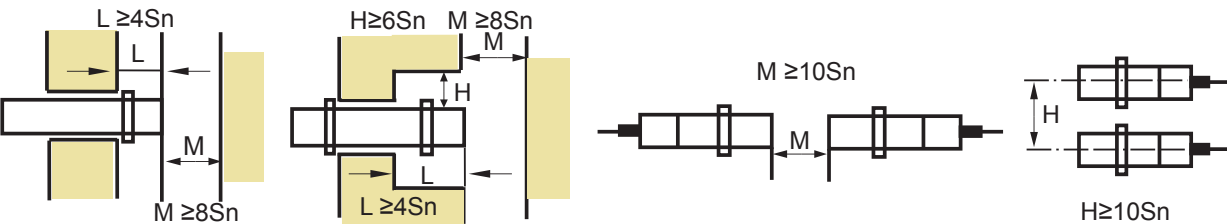
ELECTRICAL CONNECTION

DIMENSIONS OF PRODUCT



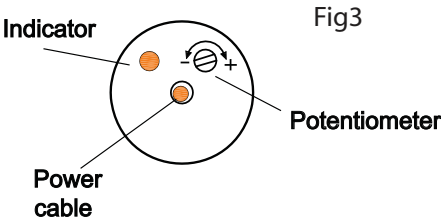
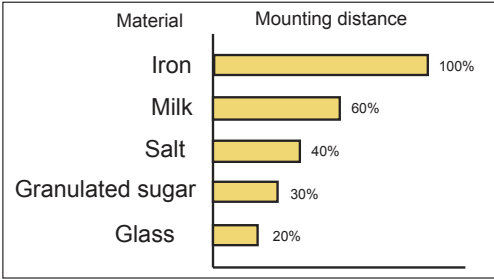
INSTALLATION

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



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



Turning clockwise increases sensitivity, turning anti-clockwise decreases sensitivity
Limit on rotation about 10 full turns

On stop
Adjuster
For maximum sensing distance turn clockwise

Off stop
Adjuster
For minimum sensing distance turn anti-clockwise

Middle stop
Adjuster
For medium sensing distance adjust to approx 5 turns

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

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