

Code

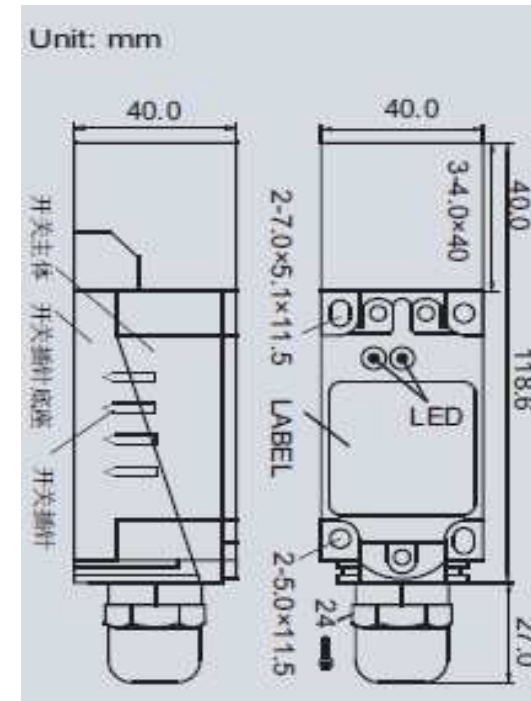
EDCON-COMPONENTS



Features

Inductive proximity sensor.
 Style: cylinder shape M5, M8, M12, M18, M30 various rectangular shape and protruding shape.
 Shielded or unshielded type.
 DC 2-wire (10-30V DC), DC3-wire (10-30V DC), DC-4Wire (10-30V DC), AC 2-wire (90-250V AC) type.
 Connection Mode: 3 or 4 wires or 3 or 4 pin M8 or M12 connector.
 With LED operation indicator, easily identifiable.
 Brass nickle plated, proof of oil, water acid, alkaline.
 Standard sensing object: inductive sensor: ferrous metals; capacitive sensor: metal or non metals objects.
 Protection IP-rate: IP67, water resistant:
 Over-load and short circuit protection; polarity reversal protection.
 Widely applied in measuring, Counting, RPPm measuring in mechanismus, chemical paper manufacture light industry, etc.

Technical Dimension



| | |
|------------------------------------|----------------|
| CAPACITIVE Proximity Sensor | |
| Part No.: | 25B1009 |
| Customer: | |

| | | | | | | | | | |
|-------|---------|------|-----|--------|--------|-----------|-----------|------|------------|
| DRW: | Jimmy | CHKD | Ban | MATL: | Wilson | TOLERANCE | Mason | DATE | 10.08.2009 |
| APPD: | Johnson | | | FINISH | Jamy | | Sheet No. | | 1 from 5 |

www.edcon-components.com

email: info@edcon-components.com

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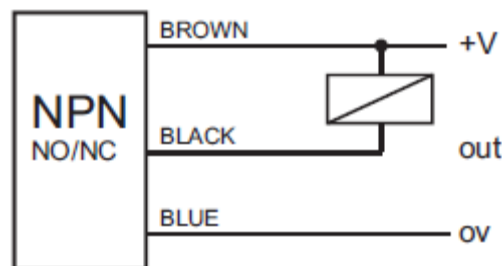


Technical Discription

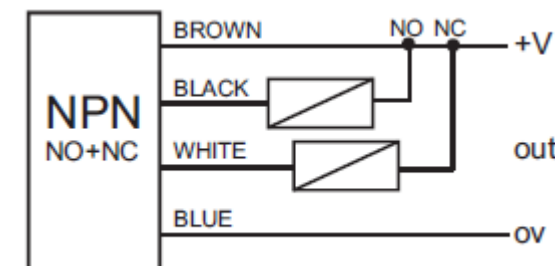
| | |
|-----------------------------|------------------------|
| Dimension : | 40x40mm |
| Installation | Flush (shielded) |
| Mounting Distance Sn | 15,0mm |
| Detect distance Sa | 0 - 12m |
| Rated Operating Voltage | 24 VDC / 220VAC |
| Supply Voltage | 10 ~ 30VDC / 90-250VAC |
| Voltage Drop | ≤ 2V |
| Rated Insulation Voltage | ≥ 20M Ω |
| Load current capacity | 200mA / 300mA |
| Off-state current (NPN/PNP) | ≤ 15mA |
| Leak current | ≤ 20μA |
| Against polarity reversal | YES |
| Short circuit protected | |
| | |
| Repeated accuracy | ≤ 5% |
| Ambient temperature range | -.25°C ~ +70°C |
| Operating frequency | 30Hz / 10Hz |
| Function indication | RED Led Indicator |
| IP ratings | IP67 |
| Housing Material | ABS |
| Material of Sensing face | ABS |
| | |
| Connection | wire |
| No of wires & gauge | 12x0,16mm |
| Standard length of cable | 2M |
| Plug-in connector | NO |

Connection Mode

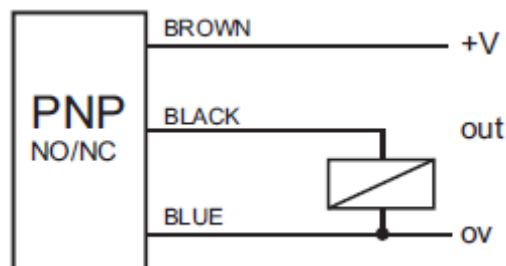
Output Code A or B



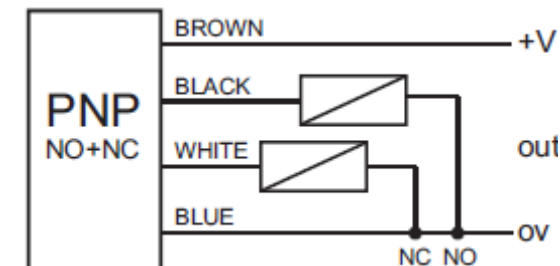
Output Mode Code E



Output Mode Code C or D



Output Mode Code F



CAPACITIVE Proximity Sensor

Part No.: **25B1009**

Customer:

| | | | | | | | | | |
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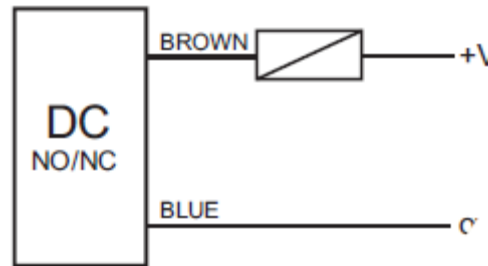


Capacitive Proximity Application Direction

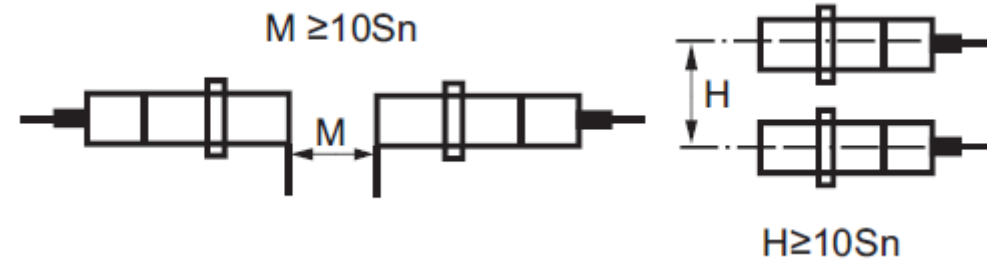
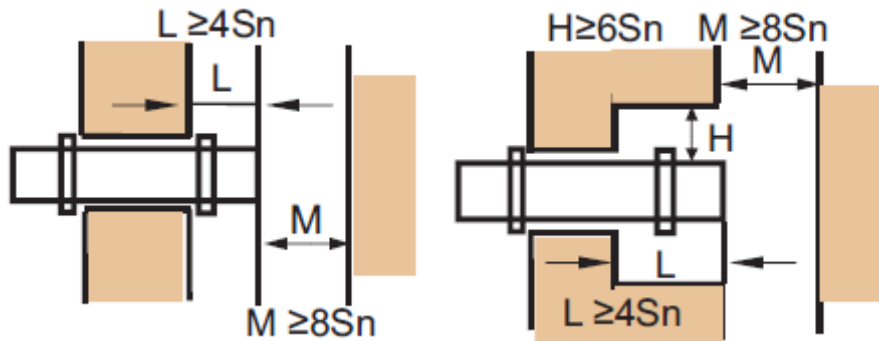
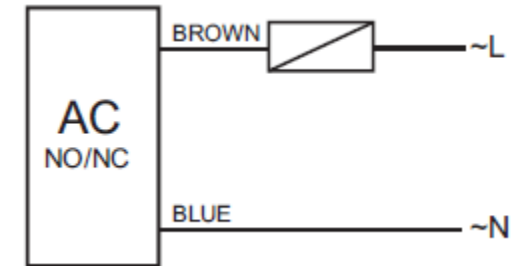
- A.** Capacitive proximity sensor can measure both metal and non-metal objects, such as iron, water, oil glass, plastic...etc,. The mounting distance varies with different objects because of different object conductivity, permittivity and water absorption. If the metal connects with ground (GND), the max. Mounting distance can be obtained.
- B.** Different objects, the mounting distance is different, refer to Table 1
- C.** The mounting distance of Capacitive proximity sensors can be adjusted, and the mounting distance must be adjusted before installing, instead of after. Adjustment please refer to Table 2
- D.** When operating, the capacitive proximity sensors should be far away from the high frequency electromagnetism circumstance, for example, supersonic wave emitter, high frequency.

Connection Mode

Output Mode Code G or H



Output Mode Code J or K



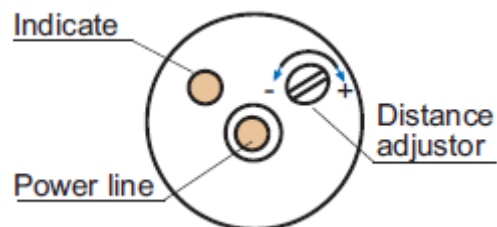
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| Part No.: | 25B1009 |
| Customer: | |

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Adjustment Table 2



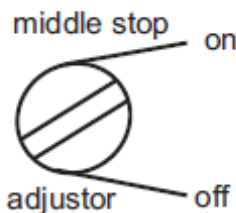
Adjustor turns right Sn increases turn left Sn decreases, the circle on Sn adjustor about ten.



Without object, turn adjustor right to the **ON** stop.

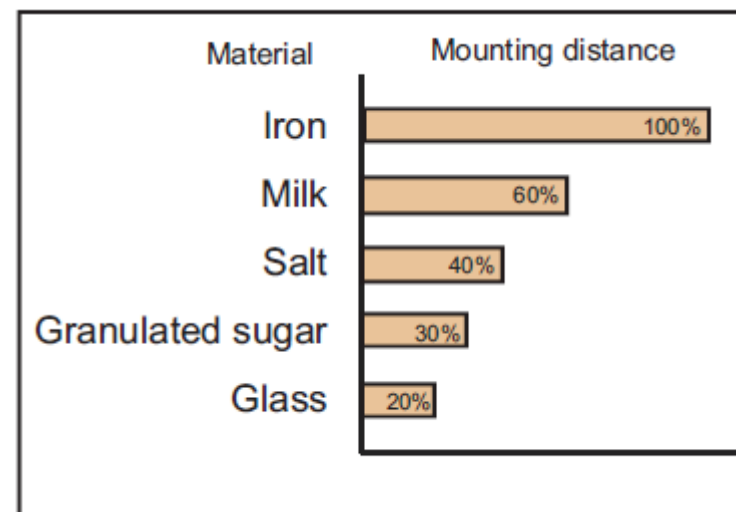


Approaching object, turn adjustor left to the **OFF** stop.



At least set the adjust in the middle of **ON** and **OFF** position.

Mounting distance Table 1



CAPACITIVE Proximity Sensor

Part No.: **25B1009**

Customer:

| | | | | | | | | | |
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Ordering Informations

| Serie | Connector | Connector Size | Zylinder Size | Output Mode | Detect Distance | Output Current | Body Sensor Length | Housing | Cable length | |
|----------------|-----------|----------------|---------------|-------------|-----------------|----------------|--------------------|----------|--------------|--|
| 25B1009 | C | X | S40 | A | 15 | B | 0 | A | 2001 | |

| | | | | | | | | | |
|-----------------|-----------------------------|---------------------|-----------------------|-----------------|--|-----------------|-----------------------|---------------------------|--|
| C= Cable | X= without connector | S40= 40x40mm | A= NPN-NO | | | | 0= NO function | A= ABS is Standard | 0000= without Cable |
| | | | B= NPN-NC | | | B= 200mA | | | 2001= Standard Cable length is 2000mm other length available please fill in |
| | | | C= PNP-NO | | | C= 300mA | | | |
| | | | D= PNP-NC | | | | | | |
| | | | E= NPN-NO+NC | | | | | | |
| | | | F= PNP-NO+NC | | | | | | |
| | | | | 15= 15mm | | | | | |
| | | | J= AC2 Wire NO | | | | | | |
| | | | K= AC2 Wire NC | | | | | | |

For special request of sensors (e.g. 24V AC appearance, function), please indicate when order.

| | |
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