



Amplified Capacitive Sensors Ø 30

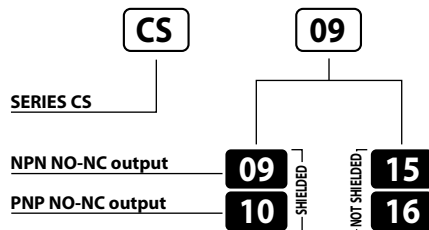
AMPLIFIED CAPACITIVE SENSORS IN METAL HOUSING 12÷30 VDC NPN OR PNP OUTPUT

- Four wires, 12-30 VDC
- NPN - NO and NC
- PNP - NO and NC
- Adjustable range, 9-turn trimmer
- Nickel-plated brass
- High noise immunity
- High temperature stability

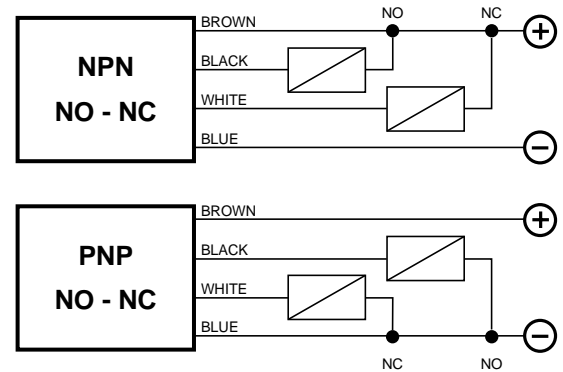
CS Series



Identification code



Wiring diagrams



| | SHIELDED | NOT SHIELDED |
|--|---|--------------|
| NOMINAL SWITCHING DISTANCE (S _n) | 1±20 mm | 1±25 mm |
| NOMINAL VOLTAGE | 12 ÷ 30 VDC (-15/+10%) | |
| RESIDUAL RIPPLE | ≤ 10% | |
| HYSTERESIS | Depending on the sensing distance | |
| MAX. CURRENT OUTPUT | 200 mA | |
| ABSORPTION AT 24 VDC | ≤ 20 mA | |
| VOLTAGE DROP (Sensor ON) | ≤ 1.8 V (I = 100 mA) | |
| OPERATION LED | Yellow | |
| SENSITIVITY ADJUSTMENT | Trimmer 9 turns | |
| SWITCHING FREQUENCY | 10 Hz | |
| START UP DELAY | ≤ 100 mS | |
| REPEATABILITY (at even temperature) | ≤ 5% | |
| SHORT CIRCUIT PROTECTION | Present | |
| ELECTRIC PROTECTIONS | Against polarity reversal - inductive loads | |
| TEMPERATURE LIMITS | - 25 ÷ +70 °C | |
| PROTECTION DEGREE | IP 67 | |
| CABLE LENGTH | 2 m | |
| CABLE SECTION | 4 x 0.25 mm ² | |
| HOUSING MATERIAL | Nickel-plated brass | |
| WEIGHT (Approximately) | 250 g | |

Sensitivity adjustment

The sensitivity adjustment must be done when the sensor is installed in a definite and steady position.

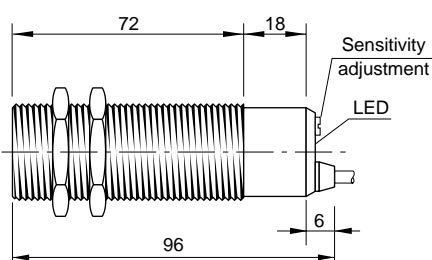
The regulation must be done in a position half way between minimum and maximum, because, being air dielectric, a strong humidity variation could cause, if the regulation is very light, nuisance tripping.

The sensing distance of the sensor depends on the kind of material to detect and on its dimensions (see table about reduction factors).

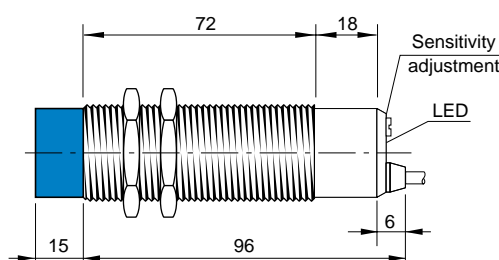
The distance could change according to temperature variations. To increase the sensitivity twist the trimmer clock-wise, to decrease do it anti clock-wise.

Models with cable output dimensions (mm)

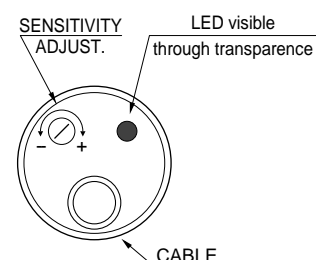
SHIELDED MODELS



NOT SHIELDED MODELS



Ø 30 BACK VIEW



To locate additional product specifications and technical drawings go to www.asi-ez.com