SENSOR DISCOUNT
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# M12 Series DC 3-Wire Sn 1-3mm

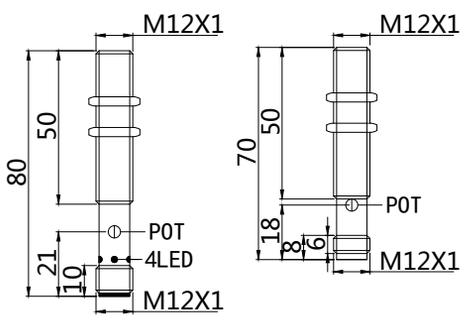
## Capacitive sensors

## Features:

- M12*1 mm , Plastic/Brass,nickel-plated housing;
- 3mm , flush mountable;
- DC 3-wire , switching output;
- Connector versions

RoHS CE

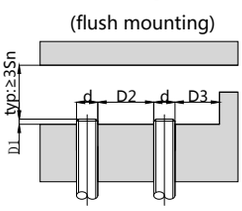
## Dimensioned drawing




## Model No.

| Housing material | Brass, nickel-plated | PBT |
|---|---|---|
| NPN N.O | SCF-M12-03N-C11-M12 | SCF-M12-03N-P11-M12 |
| NPN N.C | SCF-M12-03N-C21-M12 | SCF-M12-03N-P21-M12 |
| PNP N.O | SCF-M12-03P-C11-M12 | SCF-M12-03P-P11-M12 |
| PNP N.C | SCF-M12-03P-C21-M12 | SCF-M12-03P-P21-M12 |

## Mounting



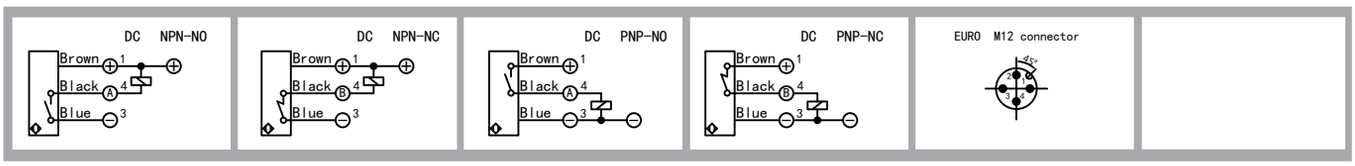

| Sn | D1 | D2 | D3 |
|---|---|---|---|
| M1203 | ≥1 | ≥12 | ≥12 |

Tightening torque of the fastening screws: <10Nm!

Tightening torque of the fastening screws: <1Nm!(PBT)

| Correction Factor | |
|---|---|
| Nav-ferrous metal | Factor |
| Water | 1 |
| Alcohol | 0.7 |
| Ceramic | 0.6 |
| Glass | 0.5 |
| Oil | 0.3 |

## Technical data

| | | |
|---|---|---|
| **Electrical data** | Operating voltage | 10-30V DC |
| | Switching frequency | 100Hz |
| | Voltage drop | ≤2.0V |
| | Leakge current | <0.01mA |
| | Load current | 200mA |
| | No load current | ≤10mA(24V) |
| | Hysteresis | <15%(Sr) |
| | Repeatability | <5.0%(Sr) |
| | Temperature drift | <10%(Sr) |
| | Short circuit protection | Yes |
| | Overload protection | Yes |
| | Polarity reversal protection | Yes |
| **Environment** | Ambient temperature | -25...70℃ |
| | Ingress protection | IP67 |
| **Mechanical data** | Housing material | Brass,nickel-plated/PBT |
| | Face material | PBT |
| **Electrical connection** | Connectors | M12 connector |

## Wiring