

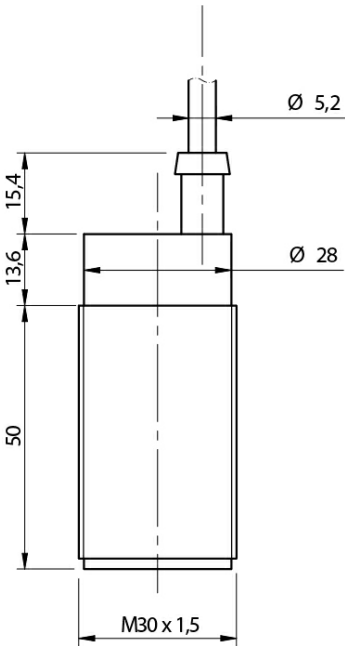


Indicative image



**M30 CYLINDRICAL CAPACITIVE SENSORS**

- DC or AC supply voltage
- High noise immunity
- Shielded and unshielded models
- Adjustable sensitivity
- Metallic or plastic housing



**Detection properties**

|                          |          |
|--------------------------|----------|
| Nominal sensing distance | 2...16mm |
| Thermal drift of Sr      | < 20%    |
| Repeat Accuracy          | 5%       |
| Sensitivity adjustment   | Yes      |
| Hysteresis               | ≤ 20%    |

**Outputs**

|                     |                  |
|---------------------|------------------|
| Output type         | SCR              |
| Output Function     | N0/NC selectable |
| Switching frequency | 10Hz             |

**Electrical data**

|                        |                     |
|------------------------|---------------------|
| Operating Voltage      | 20...250Vac/50-60Hz |
| No-Load supply current | ≤ 12mA              |
| Load current           | 2,5A max(20ms)      |
| Leakage current        | ≤ 100µA             |

|                                  |                              |
|----------------------------------|------------------------------|
| Output voltage drop              | 10VAC @ IL≥200mA             |
| Max ripple content               | ≤10%                         |
| LED indicators                   | Yellow LED (object detected) |
| Time delay before availability   | ≤ 200ms                      |
| Short-circuit protection         | Yes, autoreset               |
| Reverse Polarity Protection      | Yes                          |
| Impulsive Overvoltage Protection | Yes                          |

#### Mechanical data

|                       |                                |
|-----------------------|--------------------------------|
| Mounting              | Shielded                       |
| Dimensions            | M30 / L = 79mm                 |
| Weight                | 180g                           |
| Housing Material      | Polyester                      |
| Connections           | 2m PVC cable                   |
| Active Head Material  | Polyester                      |
| Tightening torque     | 50Nm                           |
| Operating temperature | -25°C...+80°C (without freeze) |
| Storage temperature   | -40°C...+85°C                  |
| Diameter/Dimension    | M30                            |

#### Test/Approvals

|                       |                                                |
|-----------------------|------------------------------------------------|
| Approvals             | CE cULus                                       |
| EMC compatibility     | IEC 60947-5-2                                  |
| Shocks and vibrations | Vibration IEC 60068-2-6 / Shock IEC 60068-2-27 |
| Degree of protection  | IP67                                           |

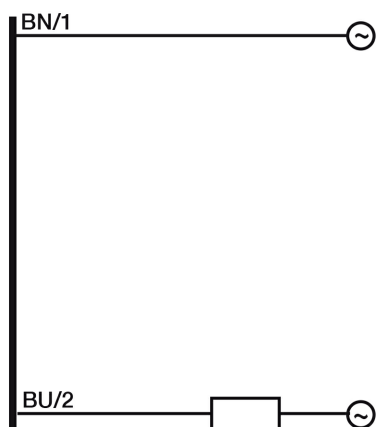
#### Accessories

|                      |                            |
|----------------------|----------------------------|
| Supplied Accessories | screw driver, 2 x M30 nuts |
|----------------------|----------------------------|

#### Generical Data

|                       |                                |
|-----------------------|--------------------------------|
| Dimensions            | M30 / L = 79mm                 |
| Operating Temperature | -25°C...+80°C (without freeze) |
| Mechanical Protection | IP67                           |

## ELECTRICAL DIAGRAMS OF THE CONNECTIONS



---

**Datasensing S.r.l.**

Strada S.Caterina, 235  
41122 Modena (MO)  
Tel. 059 420411  
Fax 059 253973  
E-mail [info@datasensing.com](mailto:info@datasensing.com)

**date of printing**

29/04/2022 09:21:58