

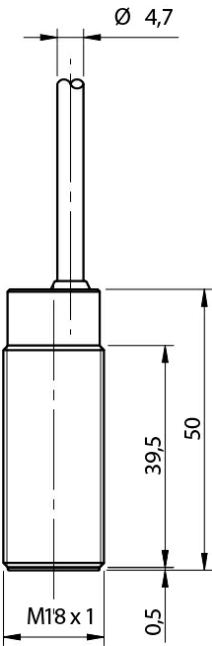


Indicative image



**M18 CYLINDRICAL INDUCTIVE SENSORS**

- Wide range of models: standard, long distance
- Output: cable, M12 and plug cable exit
- Models with 2, 3, and 4 wires
- ATEX models, cat. 3, available on request
- Models with complementary output (NO+NC)



**Detection properties**

|                          |                                                                      |
|--------------------------|----------------------------------------------------------------------|
| Nominal sensing distance | 8mm                                                                  |
| Operanting distance      | 0...6,5mm                                                            |
| Standard target          | 24x24mm FE360                                                        |
| Correction Factor        | copper: 0,40 / aluminium: 0,45 / brass: 0,50 / stainless steel: 0,75 |
| Thermal drift of Sr      | < 10%                                                                |
| Repeat Accuracy          | 5% (UB 24V Ta=23°C ±5°C)                                             |
| Hysteresis               | 1 ... 20%                                                            |

**Outputs**

|                     |         |
|---------------------|---------|
| Output type         | NPN/PNP |
| Output Function     | NO      |
| Switching frequency | 150Hz   |

**Electrical data**

|                        |            |
|------------------------|------------|
| Operating Voltage      | 10...30Vdc |
| No-Load supply current | ≤ 20mA     |

|                                    |                         |
|------------------------------------|-------------------------|
| Load current                       | 3...100mA               |
| Leakage current                    | ≤ 0, ≤ 8mA              |
| Output voltage drop                | ≤ 2,8V @100mA           |
| Max ripple content                 | ≤10%                    |
| LED indicators                     | Yellow LED output state |
| Time delay before availability     | ≤ 50ms                  |
| Short-circuit protection           | Yes                     |
| Reverse Polarity Protection        | Yes                     |
| Protection against inductive loads | Yes                     |

#### Mechanical data

|                       |                     |
|-----------------------|---------------------|
| Mounting              | Shielded            |
| Dimensions            | M18 x 1 / L = 50mm  |
| Weight                | 130g                |
| Housing Material      | Nickel-plated brass |
| Connections           | 2m PVC Cable        |
| Active Head Material  | PBT                 |
| Tightening torque     | 25Nm                |
| Operating temperature | -25°C...+70°C       |
| Diameter/Dimension    | M18                 |

#### Test/Approvals

|                       |                                                |
|-----------------------|------------------------------------------------|
| Approvals             | CE UR                                          |
| 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 | 2 nuts M18x1 |
|----------------------|--------------|

#### Generical Data

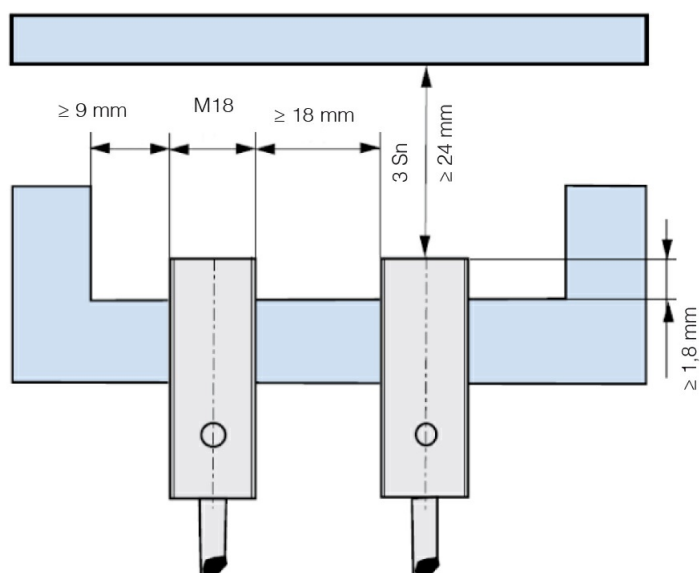
|                       |                    |
|-----------------------|--------------------|
| Dimensions            | M18 x 1 / L = 50mm |
| Operating Temperature | -25°C...+70°C      |
| Mechanical Protection | IP67               |

## ELECTRICAL DIAGRAMS OF THE CONNECTIONS



## INSTALLATION

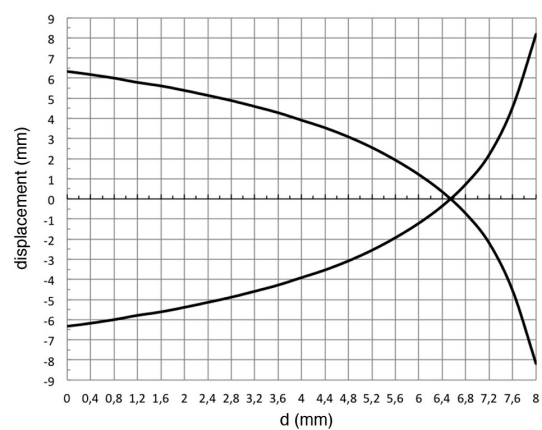
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## RESPONSE CURVES

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Parallel offset



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