

# AE6/AP-3F

cylindrical inductive

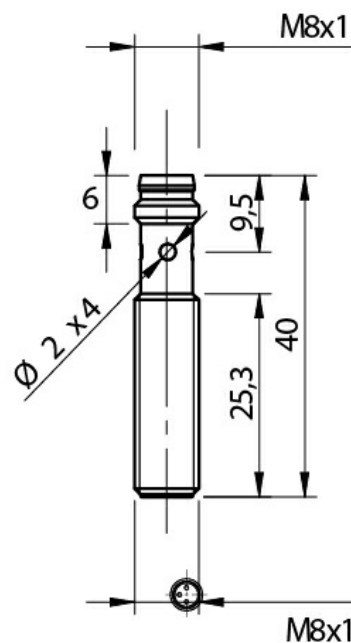


Micro Detectors

Italian Sensors Technology



Indicative image



## Detection properties

|                          |                                                                      |
|--------------------------|----------------------------------------------------------------------|
| Nominal sensing distance | 2mm                                                                  |
| Operanting distance      | 0...1,62mm                                                           |
| Standard target          | 8x8mm FE360                                                          |
| Correction Factor        | copper: 0,35 / aluminium: 0,43 / brass: 0,52 / stainless steel: 0,78 |
| Thermal drift of Sr      | < 10%                                                                |
| Repeat Accuracy          | 5% (UB 24V Ta=23°C ±5°C)                                             |
| Hysteresis               | 1 ... 20%                                                            |

## Outputs

|                     |      |
|---------------------|------|
| Output type         | PNP  |
| Output Function     | NO   |
| Switching frequency | 5kHz |

## Electrical data

|                                    |                         |
|------------------------------------|-------------------------|
| Operating Voltage                  | 10 - 30Vdc              |
| No-Load supply current             | ≤ 10mA                  |
| Load current                       | ≤ 200mA                 |
| Leakage current                    | ≤ 10μA                  |
| Output voltage drop                | ≤ 1,8V @200mA           |
| 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

|                       |                     |
|-----------------------|---------------------|
| Dimensions            | M8 x 1 / L = 40mm   |
| Mounting              | Shielded            |
| Weight                | 20g                 |
| Housing Material      | Nickel-plated brass |
| Connections           | M8 Plug             |
| Active Head Material  | PBT                 |
| Tightening torque     | 3Nm                 |
| Operating temperature | -25°C...+70°C       |

## 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  | IP 67 (EN60529)                                |

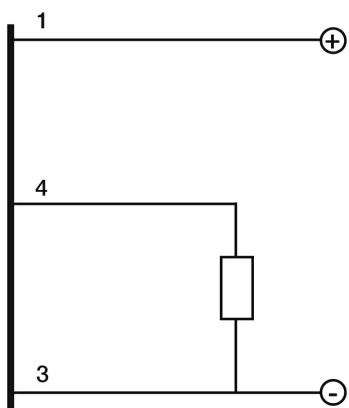
## Accessories

|                      |             |
|----------------------|-------------|
| Supplied Accessories | 2 nuts M8x1 |
|----------------------|-------------|

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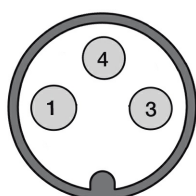
# ELECTRICAL DIAGRAMS OF THE CONNECTIONS

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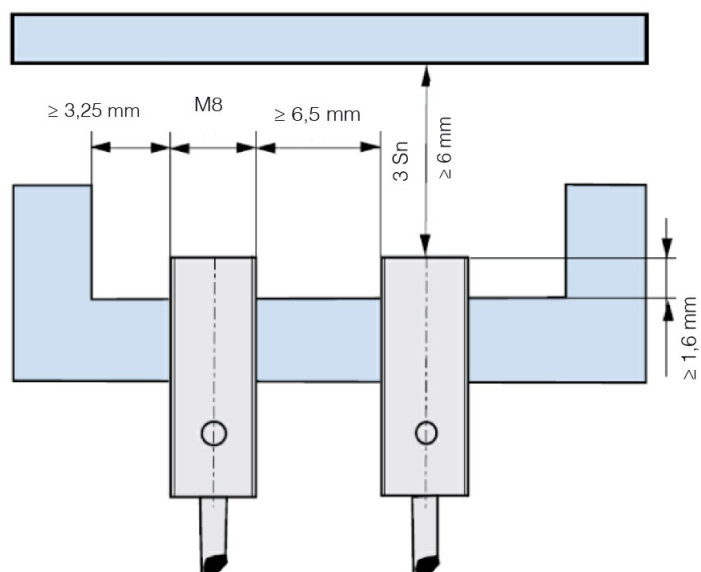
## CONNECTOR

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## INSTALLATION

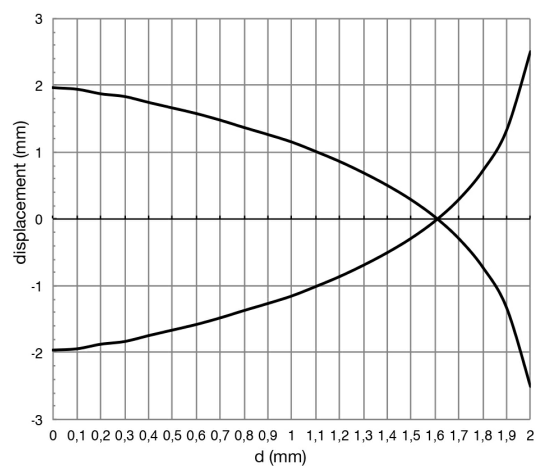
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# RESPONSE CURVES

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## Disassamento Parallelo



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