

AK1/AP-2A

cylindrical inductive

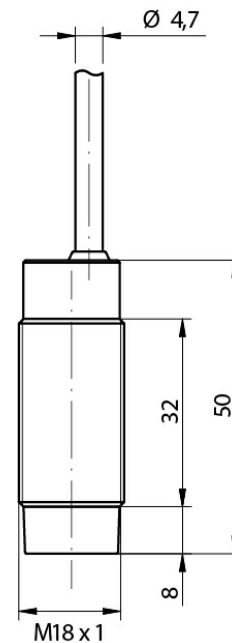


Micro Detectors

Italian Sensors Technology



Indicative image



Detection properties

| | |
|--------------------------|--|
| Nominal sensing distance | 8mm |
| Operanting distance | 0...6,5mm |
| Standard target | 24x24mm FE360 |
| Correction Factor | copper: 0,45 / aluminium: 0,53 / brass: 0,56 / stainless steel: 0,77 |
| 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 | 600Hz |

Electrical data

| | |
|------------------------------------|-------------------------|
| Operating Voltage | 10...30Vdc |
| No-Load supply current | ≤ 20mA |
| Load current | ≤ 400mA |
| Leakage current | ≤ 10μA |
| Output voltage drop | ≤ 1V @400mA |
| 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 | Unshielded |
| 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 |

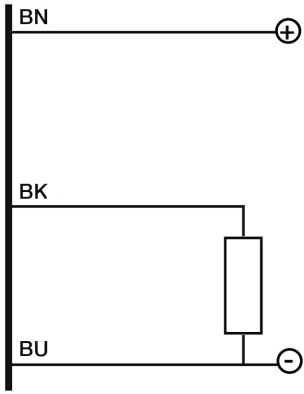
Test/Approvals

| | |
|-----------------------|--|
| 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 |

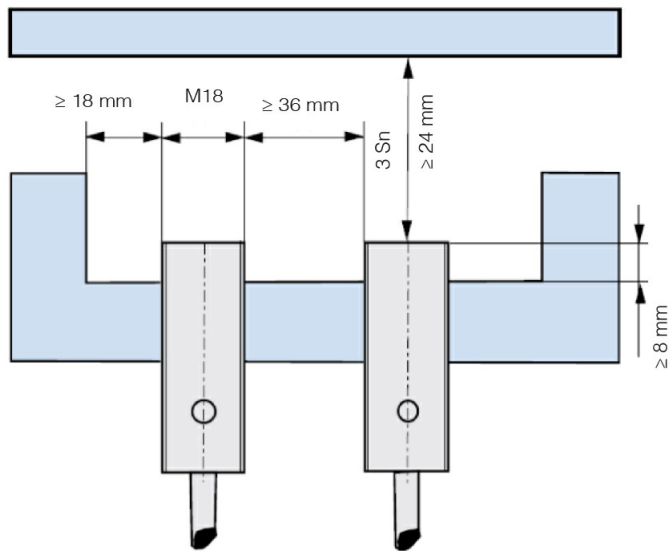
Accessories

| | |
|----------------------|--------------|
| Supplied Accessories | 2 nuts M18x1 |
|----------------------|--------------|

ELECTRICAL DIAGRAMS OF THE CONNECTIONS



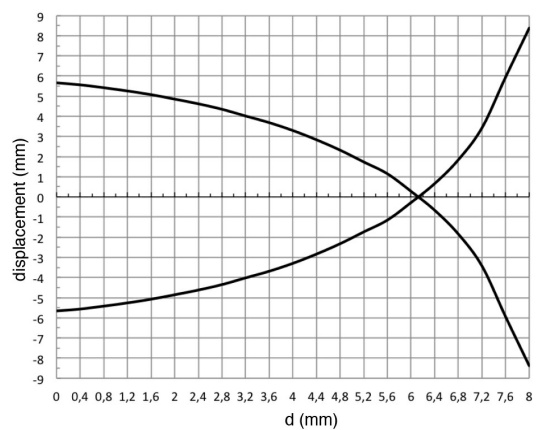
INSTALLATION



⁽¹⁾ $\geq 3,6 \text{ mm}$ for non magnetic materials

RESPONSE CURVES

Disassamento Parallelo



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