

# AK1/CP-3A

cylindrical inductive

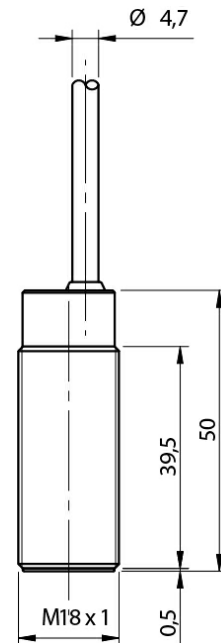


Micro Detectors

Italian Sensors Technology



Indicative image



HM 2004



## 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         | PNP   |
| Output Function     | NC    |
| Switching frequency | 300Hz |

## 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              | 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       |

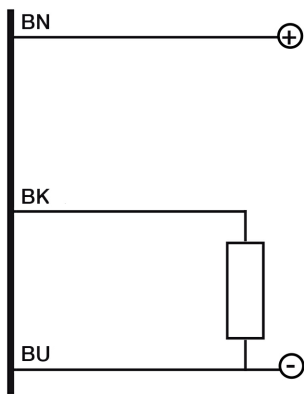
## Test/Approvals

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

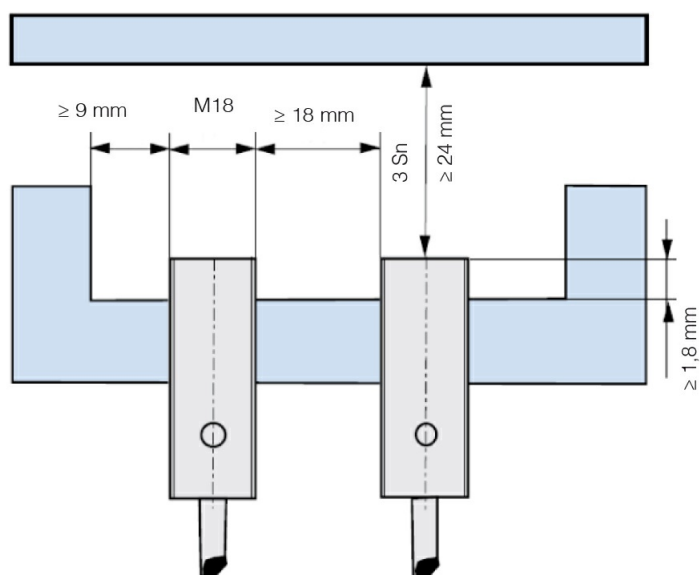
## Accessories

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

# ELECTRICAL DIAGRAMS OF THE CONNECTIONS

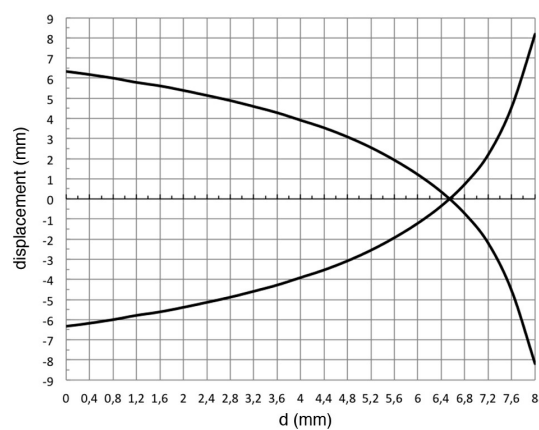


## INSTALLATION



## RESPONSE CURVES

Disassamento Parallelo



**M.D. Micro Detectors S.p.A.**

Strada S. Caterina, 235

41122 Modena (MO)

Tel. 059 420411

Fax 059 253973

E-mail [info@microdetectors.com](mailto:info@microdetectors.com)

**date of printing**

02/04/2020 10:47:30