# AK

## AK1/CP-3A

**Ind.M18,PNP-NC,Cable,Sch-LD**

**M18 CYLINDRICAL INDUCTIVE SENSORS**

# OVERVIEW

- 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)

# TECHNICAL FEATURES

Detection properties

| | |
|---|---|
| Nominal sensing distance | 8mm |
| Operanting distance | 0…6,48mm |
| 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% |

Application

| | |
|---|---|
| Description | M18 standard flush mount |
| Functions | Proximity |

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 |
| Impulsive Overvoltage Protection | Yes |
| Protection against inductive loads | Yes |

Mechanical data

| | |
|---|---|
| Dimensions | M18 x 1 / L = 50mm |
| Mounting | Shielded |
| Material | Nickel-plated brass |
| Housing material | Nickel-plated brass |
| Weight | 130g |
| 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

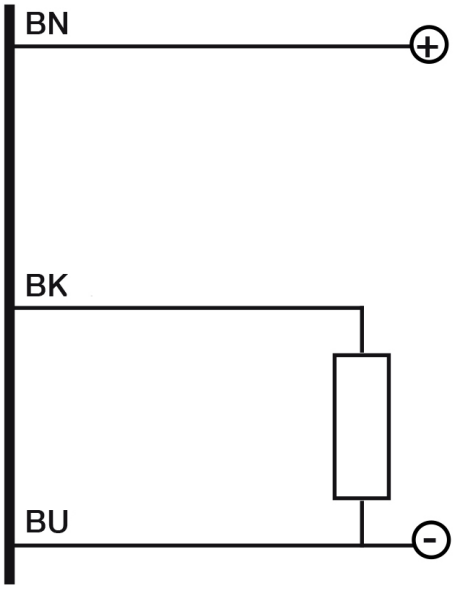
| | |
|---|---|
| Supplied Accessories | 2 nuts M18x1 |

Generical Data

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

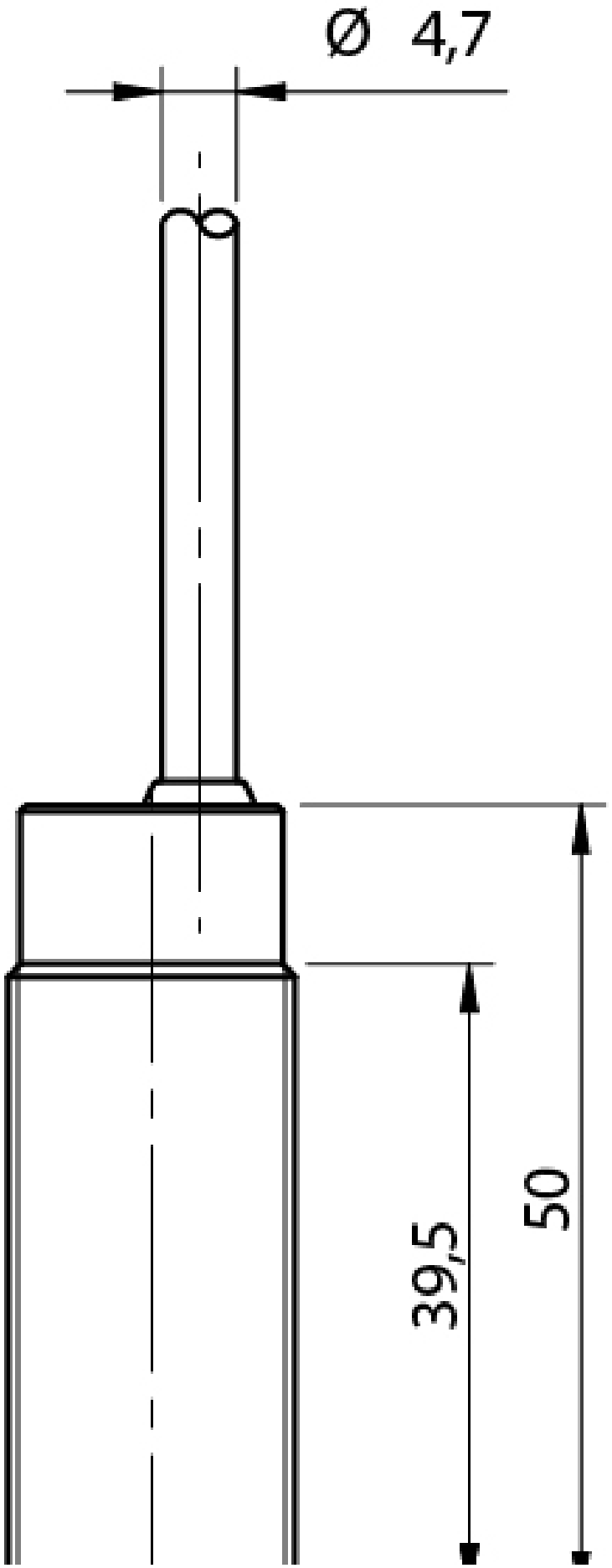
# CONNECTIONS

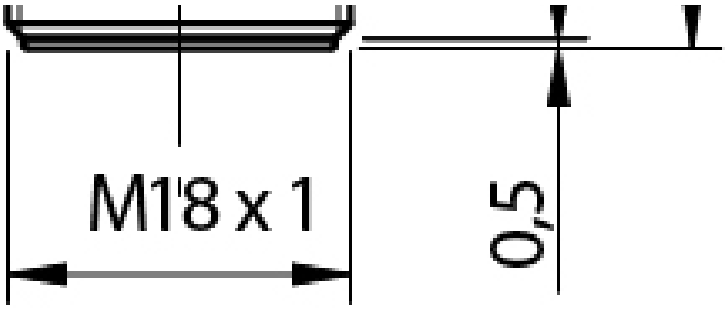
Eletrical diagram



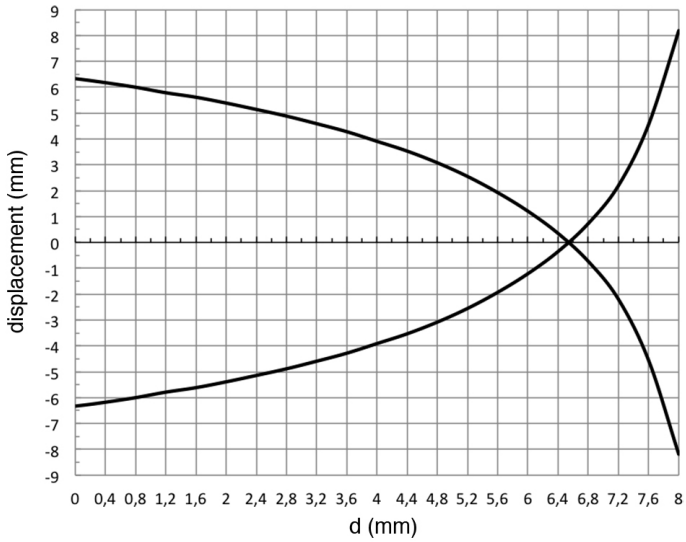

# OTHERS

Dimensions

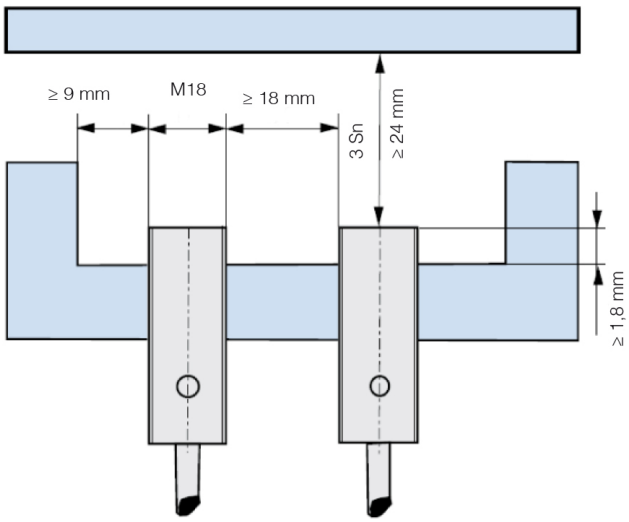

Ø 4,7
39,5
50




Response curves




Installation



**Datasensing S.r.l.**
Strada S.Caterina, 235
41122 Modena (MO)
Tel. 059 420411
Fax 059 253973
E-mail
info@datasensing.com

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