



AD1

AD1/AN-1A

Ind.M5,NPN-NO,Cable,Sch-STD
M5 CYLINDRICAL MINIATURIZED INDUCTIVE SENSORS

OVERVIEW

- Extremely reduced models: M5 x 30 mm (cable) / 38 mm (plug) length
- Operating voltage: 10...30 Vcc
- Output current: 100 mA
- LED output indicator
- Totally protected against electrical damages
- Cable and M8 plug output
- Stainless steel housing



TECHNICAL FEATURES

Detection properties

| | |
|--------------------------|--|
| Nominal sensing distance | 0,8mm |
| Operanting distance | 0...0,65mm |
| Standard target | 5x5mm FE360 |
| Correction Factor | copper: $0,32 \pm 10\%$ / aluminium: $0,26 \pm 10\%$ / brass: $0,35 \pm 10\%$ / stainless steel: $0,66 \pm 10\%$ |

| | |
|---------------------|----------------------------|
| Thermal drift of Sr | < 10% |
| Repeat Accuracy | < 5% (UB 24V Ta=23°C ±5°C) |
| Hysteresis | 1 ... 20% |

Application

| | |
|-------------|-------------------------|
| Description | M5 standard flush mount |
| Functions | Proximity |

Outputs

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

Electrical data

| | |
|--------------------------------|-------------------------|
| Operating Voltage | 10...30Vdc |
| No-Load supply current | ≤ 10mA |
| Load current | ≤ 100mA |
| Leakage current | ≤ 10μA |
| Output voltage drop | ≤ 1,5V @100mA |
| 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 | M5 x 0,5 / L = 30,2mm |
| Mounting | Shielded |
| Material | AISI303 Stainless Steel |
| Housing material | AISI303 Stainless Steel |
| Weight | 30g |
| Connections | 2m PVC Cable |
| Active Head Material | PBT |
| Tightening torque | 2Nm |
| Operating temperature | -25°C...+70°C |
| Diameter/Dimension | M5 |

Test/Approvals

| | |
|-------------------|---------------|
| Approvals | CE cULus |
| 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 M5x0.5

Generical Data

Dimensions

M5 x 0,5 / L = 30,2mm

Operating Temperature

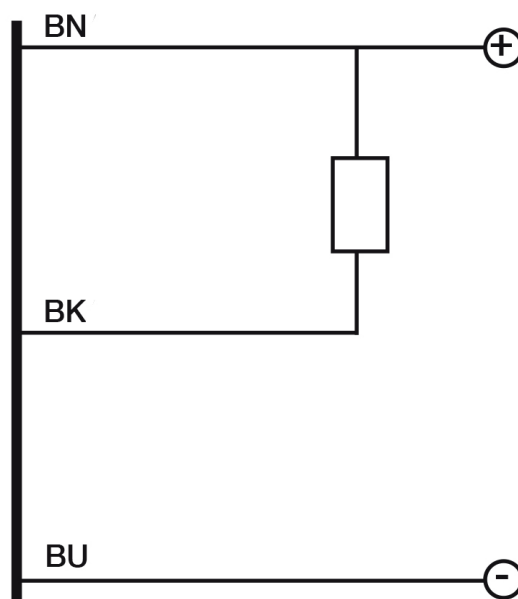
-25°C...+70°C

Mechanical Protection

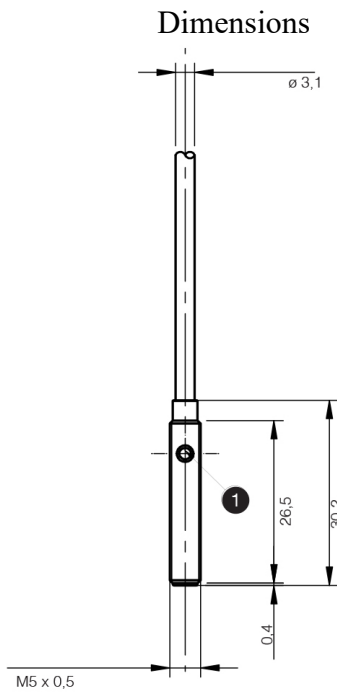
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CONNECTIONS

Electrical diagram

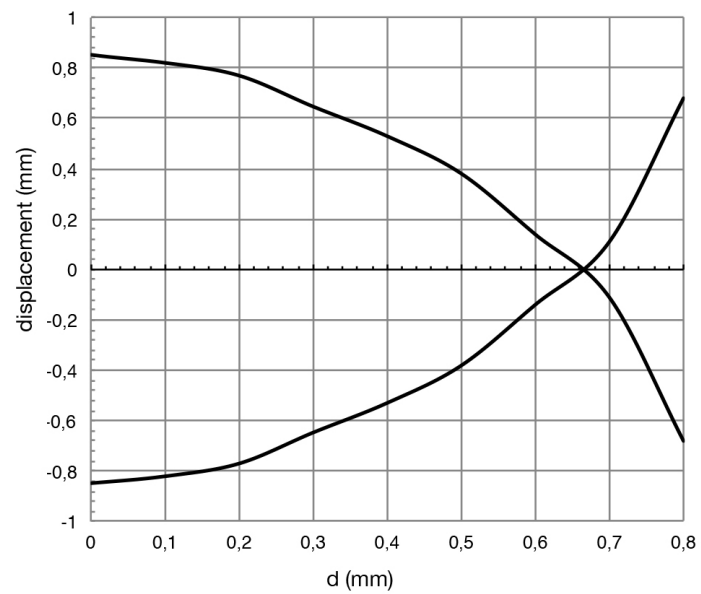


OTHERS

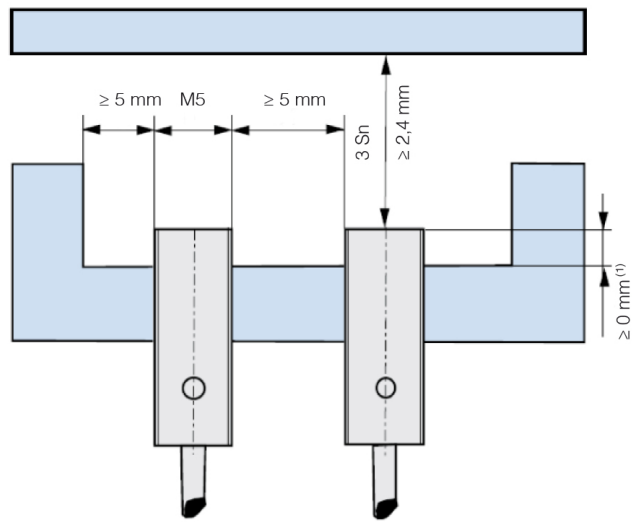


1 LED

Response curves



Installation



⁽¹⁾ ≥ 1 mm without ferro-magnetic material

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