



# AM

## AM6/BN-2A

**Ind.M12,NPN-NO+NC,Cable,Nsch-STD**  
**M12 CYLINDRICAL INDUCTIVE SENSORS**

## OVERVIEW

- Wide range of models: standard, short body, long distance
- Output: cable, M12 and M8 plug cable exit
- Models with 2, 3 wires
- ATEX models, cat. 3, available on request

## TECHNICAL FEATURES

### Detection properties

|                          |                                                                      |
|--------------------------|----------------------------------------------------------------------|
| Nominal sensing distance | 4mm                                                                  |
| Operanting distance      | 0...3,2mm                                                            |
| Standard target          | 12x12mm FE360                                                        |
| Correction Factor        | copper: 0,41 / aluminium: 0,47 / brass: 0,56 / stainless steel: 1,15 |
| Thermal drift of Sr      | < 10%                                                                |
| Repeat Accuracy          | < 5% (UB 24V Ta=23°C ±5°C)                                           |
| Hysteresis               | 1 ... 20%                                                            |

|                                |                               |
|--------------------------------|-------------------------------|
|                                |                               |
| Application                    |                               |
| Description                    | M12 short case no-flush mount |
| Functions                      | Proximity                     |
| Outputs                        |                               |
| Output type                    | NPN                           |
| Output Function                | NO + NC                       |
| Switching frequency            | 2kHz                          |
| 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                           |
|                                |                               |

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

Mechanical data

|                       |                      |
|-----------------------|----------------------|
| Dimensions            | M12 x 1 / L = 39,8mm |
| Mounting              | Unshielded           |
| Material              | Nickel-plated brass  |
| Housing material      | Nickel-plated brass  |
| Weight                | 60g                  |
| Connections           | 2m PVC Cable         |
| Active Head Material  | PBT                  |
| Tightening torque     | 10Nm                 |
| Operating temperature | -25°C...+70°C        |
| Diameter/Dimension    | M12                  |

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 M12x1 |
|----------------------|--------------|

### Generical Data

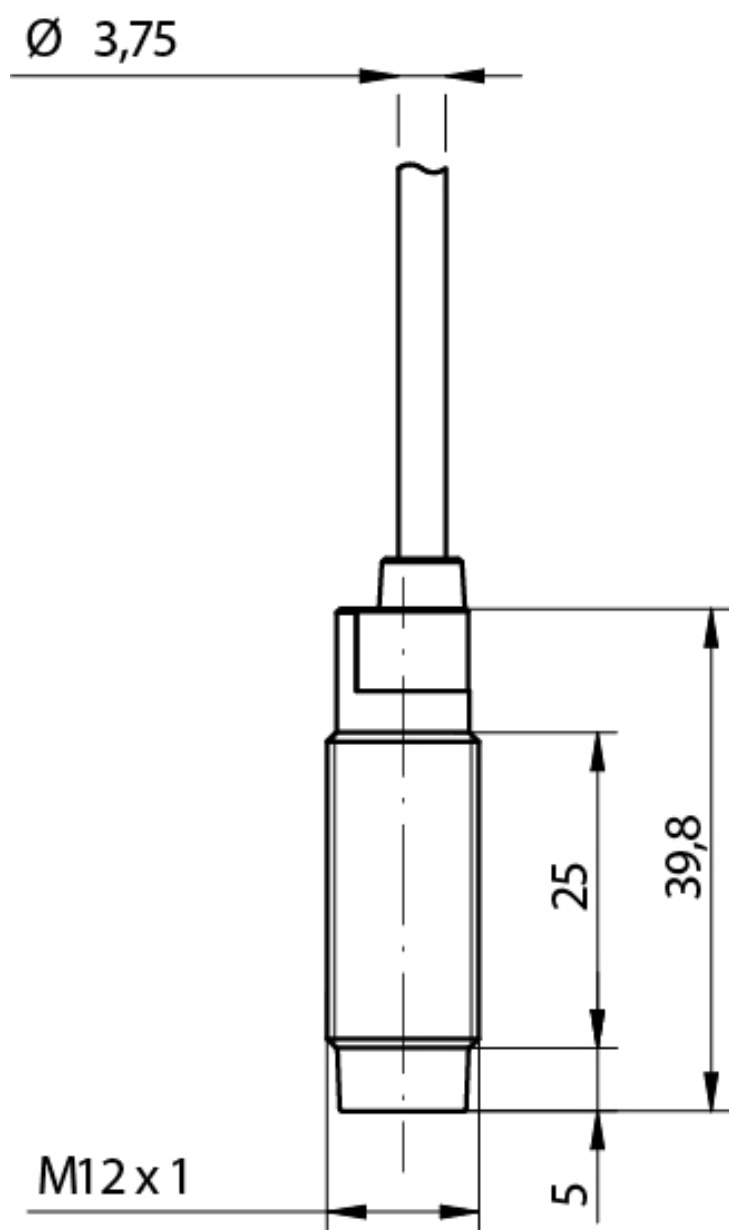
|            |                      |
|------------|----------------------|
| Dimensions | M12 x 1 / L = 39,8mm |
|------------|----------------------|

|                       |               |
|-----------------------|---------------|
| Operating Temperature | -25°C...+70°C |
|-----------------------|---------------|

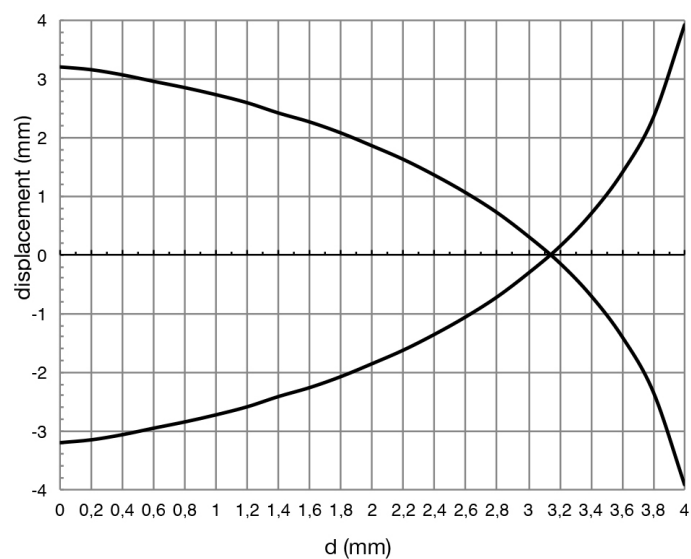
|                       |      |
|-----------------------|------|
| Mechanical Protection | IP67 |
|-----------------------|------|

## OTHERS

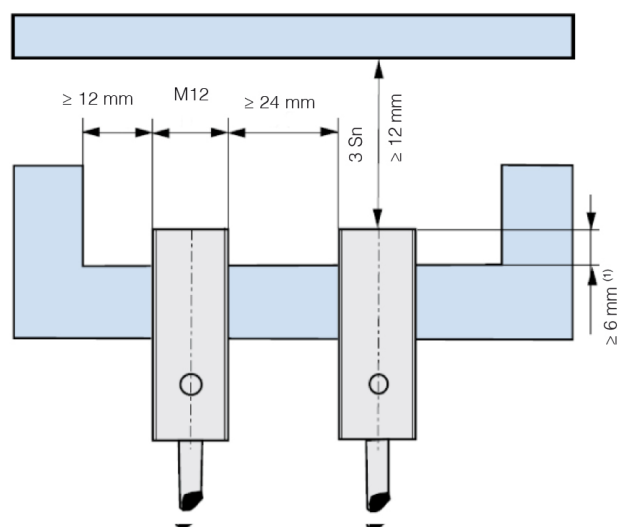
### Dimensions



Response curves



### Installation



<sup>(1)</sup>  $\geq 2 \text{ mm}$  for non magnetic materials

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