



# AM

## AM6/BP-1A

**Ind.M12,PNP-NO+NC,Cable,Sch-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 | 2mm                                                                  |
| Operanting distance      | 0...1,62mm                                                           |
| Standard target          | 12x12mm FE360                                                        |
| Correction Factor        | copper: 0,22 / aluminium: 0,31 / brass: 0,41 / stainless steel: 0,77 |
| Thermal drift of Sr      | < 10%                                                                |
| Repeat Accuracy          | < 5% (UB 24V Ta=23°C ±5°C)                                           |
| Hysteresis               | 1 ... 20%                                                            |

|                                |                            |
|--------------------------------|----------------------------|
|                                |                            |
| Application                    |                            |
| Description                    | M12 short case flush mount |
| Functions                      | Proximity                  |
| Outputs                        |                            |
| Output type                    | PNP                        |
| 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              | Shielded             |
| 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

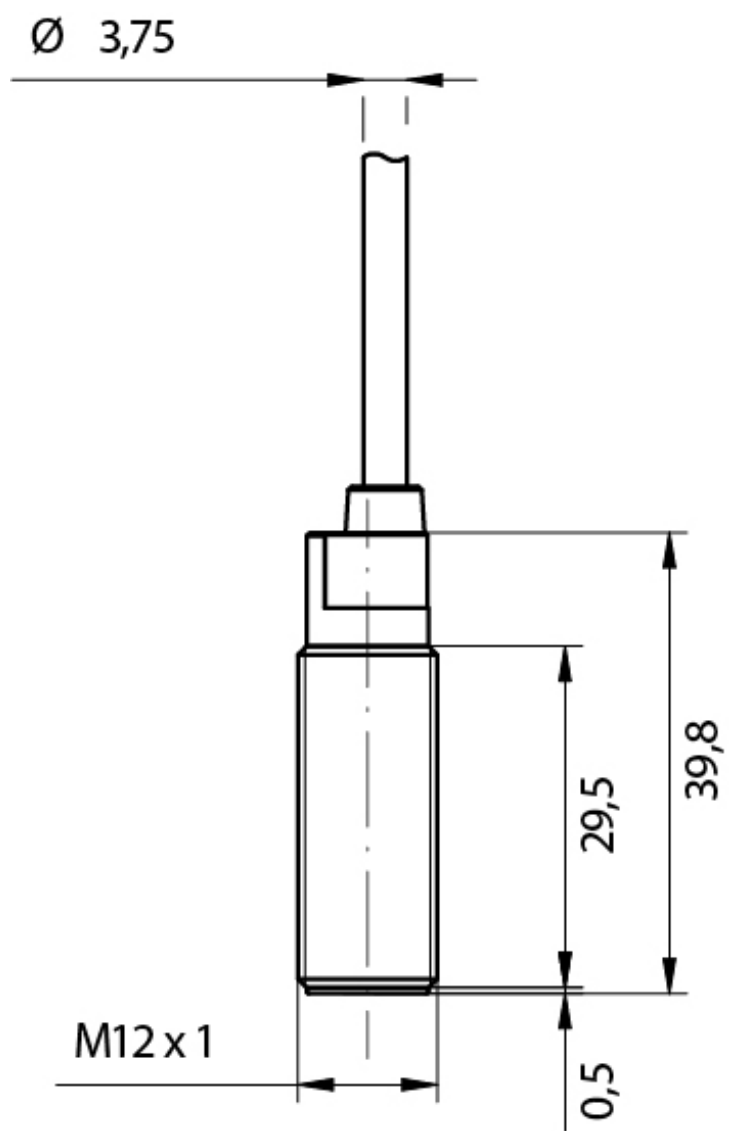
|            |                      |
|------------|----------------------|
| Dimensions | M12 x 1 / L = 39,8mm |
|------------|----------------------|

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

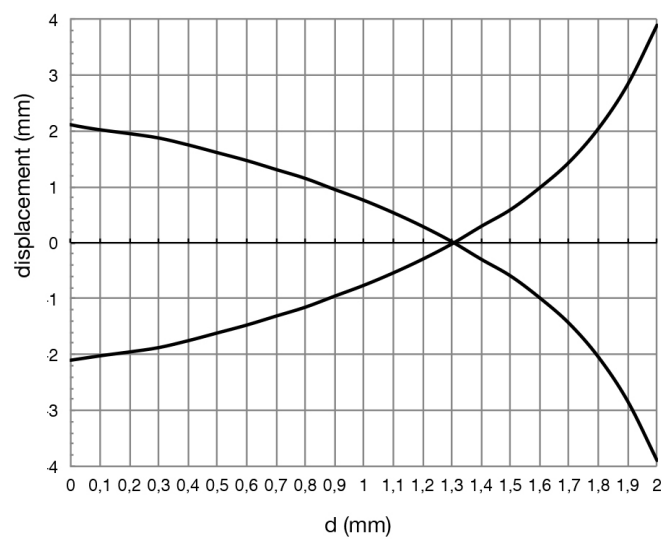
|                       |      |
|-----------------------|------|
| Mechanical Protection | IP67 |
|-----------------------|------|

## OTHERS

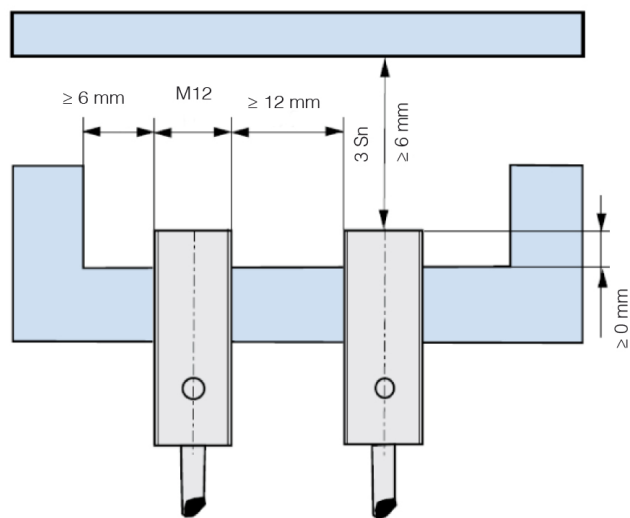
#### Dimensions



Response curves



### Installation



### Datasensing S.r.l.

Strada S.Caterina, 235  
41122 Modena (MO)  
Tel. 059 420411  
Fax 059 253973  
E-mail  
[info@datasensing.com](mailto:info@datasensing.com)

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