



# AM

## AM6/AP-2H

Ind.M12,PNP-NO,M12 Plug,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 | PNP |
|-------------|-----|

|                 |    |
|-----------------|----|
| Output Function | NO |
|-----------------|----|

|                     |      |
|---------------------|------|
| Switching frequency | 2kHz |
|---------------------|------|

## Electrical data

|                   |            |
|-------------------|------------|
| Operating Voltage | 10...30Vdc |
|-------------------|------------|

|                        |                    |
|------------------------|--------------------|
| No-Load supply current | $\leq 10\text{mA}$ |
|------------------------|--------------------|

|              |                     |
|--------------|---------------------|
| Load current | $\leq 200\text{mA}$ |
|--------------|---------------------|

|                 |                      |
|-----------------|----------------------|
| Leakage current | $\leq 10\mu\text{A}$ |
|-----------------|----------------------|

|                     |                                  |
|---------------------|----------------------------------|
| Output voltage drop | $\leq 1,8\text{V @}200\text{mA}$ |
|---------------------|----------------------------------|

|                    |             |
|--------------------|-------------|
| Max ripple content | $\leq 10\%$ |
|--------------------|-------------|

|                |                         |
|----------------|-------------------------|
| LED indicators | Yellow LED output state |
|----------------|-------------------------|

|                                |                    |
|--------------------------------|--------------------|
| Time delay before availability | $\leq 50\text{ms}$ |
|--------------------------------|--------------------|

|                          |     |
|--------------------------|-----|
| Short-circuit protection | Yes |
|--------------------------|-----|

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

#### Mechanical data

|                       |                      |
|-----------------------|----------------------|
| Dimensions            | M12 x 1 / L = 52,3mm |
| Mounting              | Unshielded           |
| Material              | Nickel-plated brass  |
| Housing material      | Nickel-plated brass  |
| Weight                | 20g                  |
| Connections           | M12 Plug             |
| 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 = 52,3mm

Operating Temperature

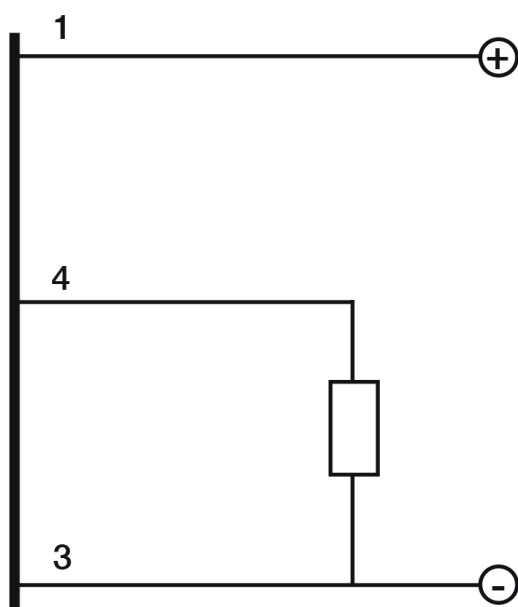
-25°C...+70°C

Mechanical Protection

IP67

# CONNECTIONS

Electrical diagram

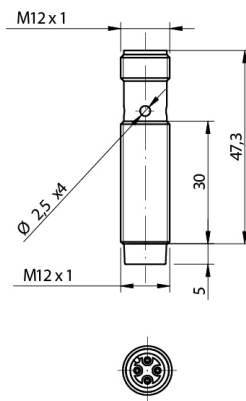


Connector

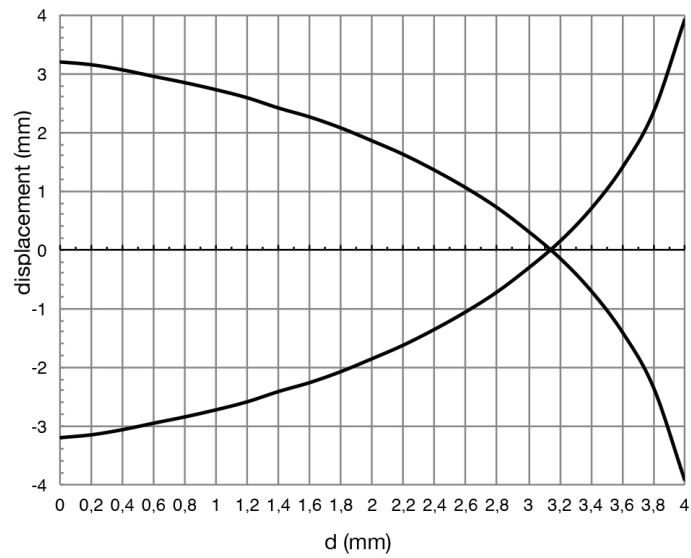


## OTHERS

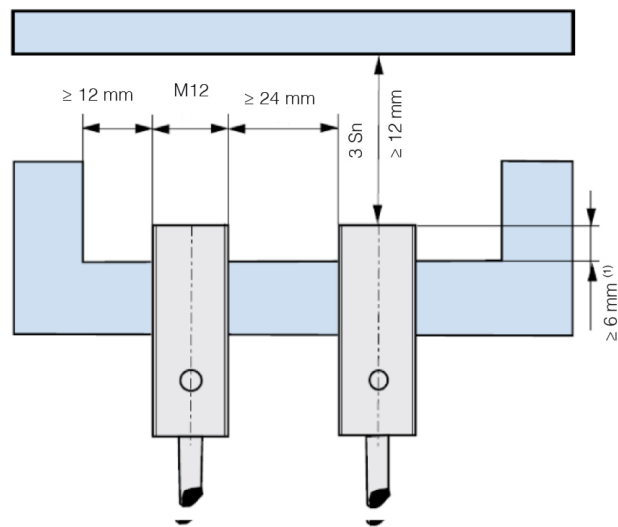
Dimensions



Response curves



### Installation



<sup>(1)</sup> ≥ 2 mm for non magnetic materials

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