



# AT

## AT1/AN-3A

Ind.M30,NPN-NO,Cable,Nsch-STD  
M30 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)
- Complete protection against electrical damages



## TECHNICAL FEATURES

### Detection properties

|                          |                                                                      |
|--------------------------|----------------------------------------------------------------------|
| Nominal sensing distance | 15mm                                                                 |
| Operanting distance      | 0...12,1mm                                                           |
| Standard target          | 45x45mm FE360                                                        |
| Correction Factor        | copper: 0,35 / aluminium: 0,45 / brass: 0,50 / stainless steel: 0,70 |
| Thermal drift of Sr      | < 10%                                                                |

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

### Application

|             |                          |
|-------------|--------------------------|
| Description | M30 standard flush mount |
| Functions   | Proximity                |

### Outputs

|                     |       |
|---------------------|-------|
| Output type         | NPN   |
| Output Function     | NO    |
| Switching frequency | 200Hz |

### 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 | ≤100ms                  |
| Short-circuit protection       | Yes                     |

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

Mechanical data

|                       |                      |
|-----------------------|----------------------|
| Dimensions            | M30 x 1,5 / L = 60mm |
| Mounting              | Shielded             |
| Material              | Nickel-plated brass  |
| Housing material      | Nickel-plated brass  |
| Weight                | 230g                 |
| Connections           | 2m PVC Cable         |
| Active Head Material  | PBT                  |
| Tightening torque     | 50Nm                 |
| Operating temperature | -25°C...+70°C        |
| Diameter/Dimension    | M30                  |

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

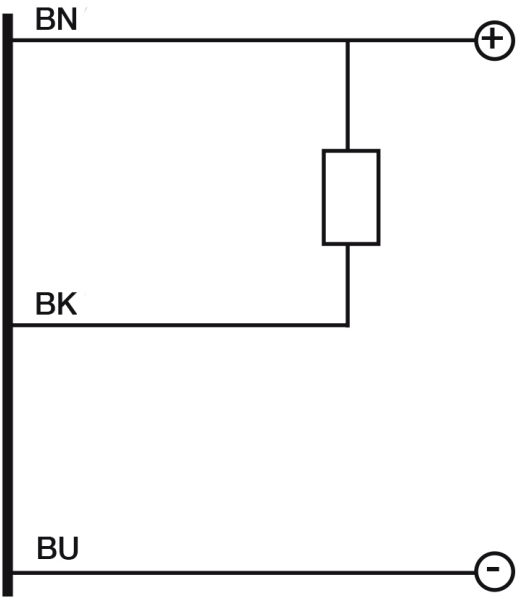
|                      |                |
|----------------------|----------------|
| Supplied Accessories | 2 nuts M30x1.5 |
|----------------------|----------------|

Generical Data

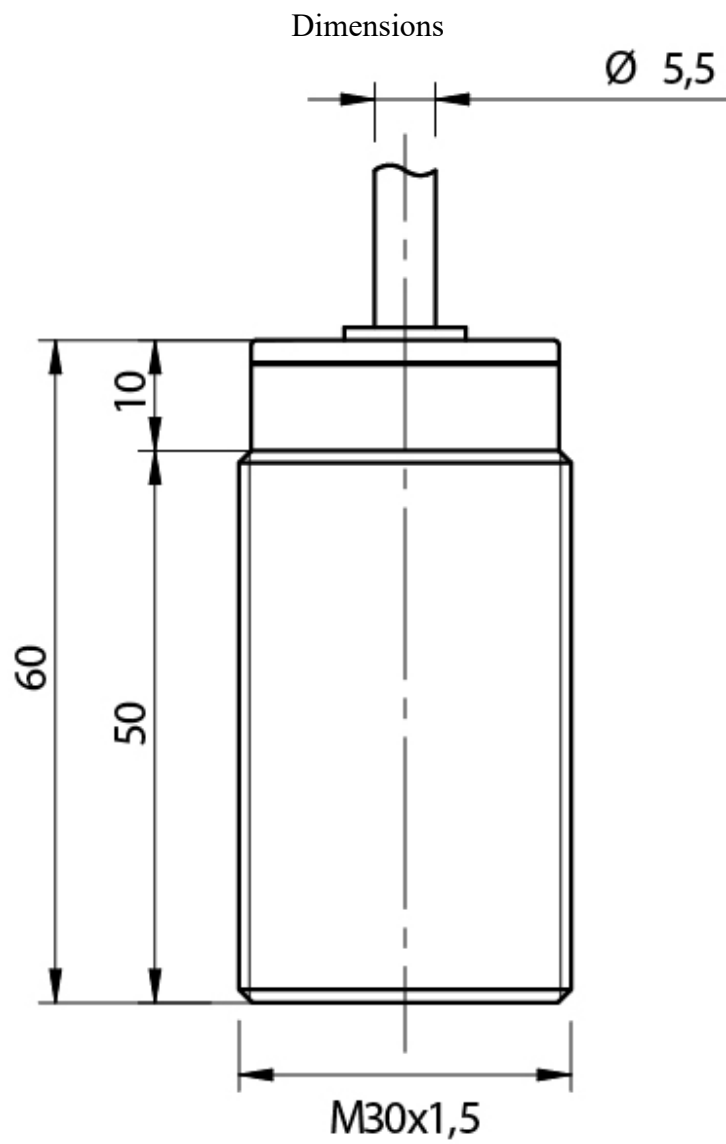
|                       |                      |
|-----------------------|----------------------|
| Dimensions            | M30 x 1,5 / L = 60mm |
| Operating Temperature | -25°C...+70°C        |
| Mechanical Protection | IP67                 |

# CONNECTIONS

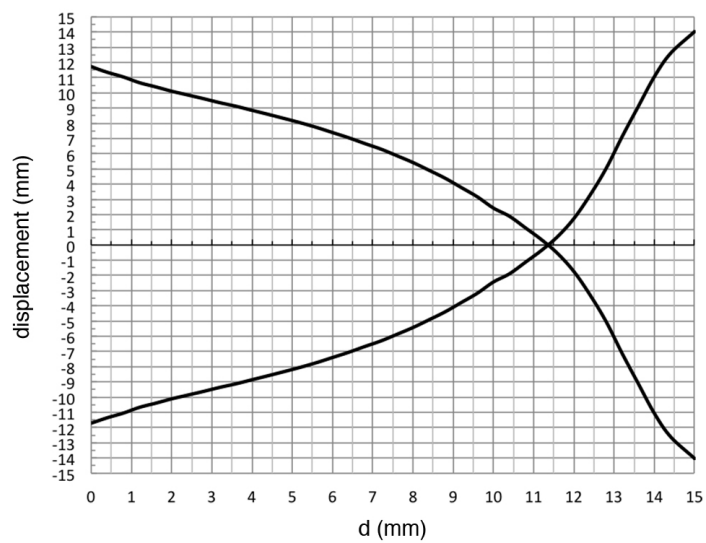
Eletrical diagram



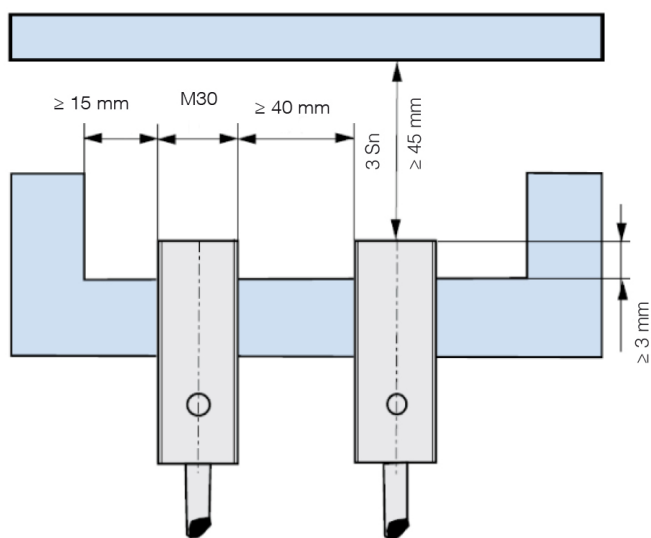
# OTHERS



Response curves



### Installation



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