



# AT

## AT6/BN-3A

**Ind.M30,NPN-NO+NC,Cable,Sch-LD**  
**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: 0,41 / aluminium: 0,47 / brass: 0,52 / stainless steel: 0,80 |
| Thermal drift of Sr      | < 10%                                                                |

|                                |                            |
|--------------------------------|----------------------------|
| Repeat Accuracy                | < 5% (UB 24V Ta=23°C ±5°C) |
| Hysteresis                     | 1 ... 20%                  |
| Application                    |                            |
| Description                    | M30 short case flush mount |
| Functions                      | Proximity                  |
| Outputs                        |                            |
| Output type                    | NPN                        |
| Output Function                | NO + NC                    |
| 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**

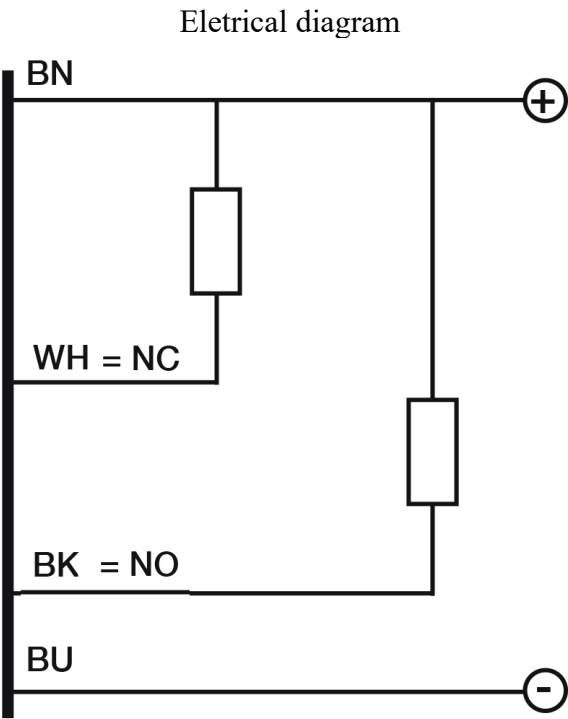
|                       |                      |
|-----------------------|----------------------|
| Dimensions            | M30 x 1,5 / L = 44mm |
| Mounting              | Shielded             |
| Material              | Nickel-plated brass  |
| Housing material      | Nickel-plated brass  |
| Weight                | 165g                 |
| Connections           | 2m PVC Cable         |
| Active Head Material  | PBT                  |
| Tightening torque     | 50Nm                 |
| Operating temperature | -25°C...+70°C        |
| Diameter/Dimension    | M30                  |

**Test/Approvals**

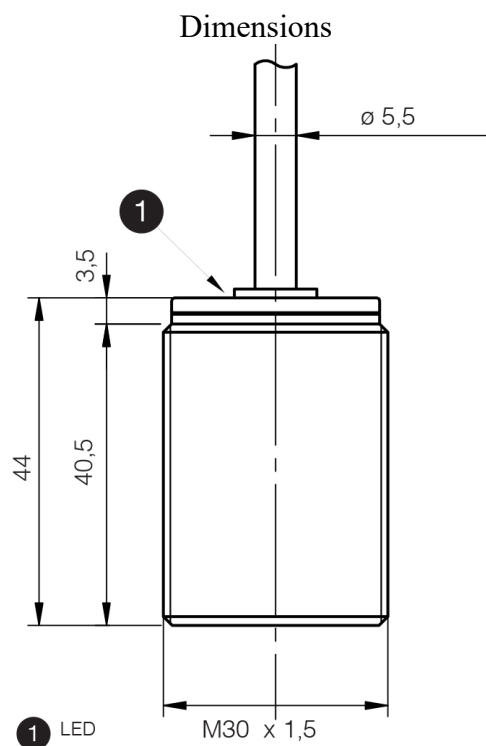
|                       |                                                |
|-----------------------|------------------------------------------------|
| Approvals             | CE cULus                                       |
| EMC compatibility     | IEC 60947-5-2                                  |
| Shocks and vibrations | Vibration IEC 60068-2-6 / Shock IEC 60068-2-27 |

|                       |                      |
|-----------------------|----------------------|
| Degree of protection  | IP67                 |
| Accessories           |                      |
| Supplied Accessories  | 2 nuts M30x1.5       |
| Generical Data        |                      |
| Dimensions            | M30 x 1,5 / L = 44mm |
| Operating Temperature | -25°C...+70°C        |
| Mechanical Protection | IP67                 |

# CONNECTIONS



# OTHERS



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