



# AD1

## AD6/CN-1A

**Ind.M5,NPN-NC,Cable,Sch-STD**  
**M5 CYLINDRICAL MINIATURIZED INDUCTIVE SENSORS**

## OVERVIEW

- Extremely reduced models: M5 x 30 mm (cable) / 38 mm (plug) length
- Operating voltage: 10...30 Vcc
- Output current: 100 mA
- LED output indicator
- Totally protected against electrical damages
- Cable and M8 plug output
- Stainless steel housing



## TECHNICAL FEATURES

### Detection properties

|                          |       |
|--------------------------|-------|
| Nominal sensing distance | 0,8mm |
|--------------------------|-------|

|                     |            |
|---------------------|------------|
| Operanting distance | 0...0,65mm |
|---------------------|------------|

|                 |             |
|-----------------|-------------|
| Standard target | 5x5mm FE360 |
|-----------------|-------------|

|                   |                                                                                                                  |
|-------------------|------------------------------------------------------------------------------------------------------------------|
| Correction Factor | copper: $0,32 \pm 10\%$ / aluminium: $0,26 \pm 10\%$ / brass: $0,35 \pm 10\%$ / stainless steel: $0,66 \pm 10\%$ |
|-------------------|------------------------------------------------------------------------------------------------------------------|

|                     |                            |
|---------------------|----------------------------|
| Thermal drift of Sr | < 10%                      |
| Repeat Accuracy     | < 5% (UB 24V Ta=23°C ±5°C) |
| Hysteresis          | 1 ... 20%                  |

### Application

|             |                           |
|-------------|---------------------------|
| Description | M5 short case flush mount |
| Functions   | Proximity                 |

### Outputs

|                     |      |
|---------------------|------|
| Output type         | NPN  |
| Output Function     | NC   |
| Switching frequency | 5kHz |

### Electrical data

|                                |                         |
|--------------------------------|-------------------------|
| Operating Voltage              | 10...30Vdc              |
| No-Load supply current         | ≤ 10mA                  |
| Load current                   | ≤ 100mA                 |
| Leakage current                | ≤ 10μA                  |
| Output voltage drop            | ≤ 1,5V @100mA           |
| 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            | M5 x 0,5 / L = 24,9mm   |
| Mounting              | Shielded                |
| Material              | AISI303 Stainless Steel |
| Housing material      | AISI303 Stainless Steel |
| Weight                | 30g                     |
| Connections           | 2m PVC Cable            |
| Active Head Material  | PBT                     |
| Tightening torque     | 2Nm                     |
| Operating temperature | -25°C...+70°C           |
| Diameter/Dimension    | M5                      |

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

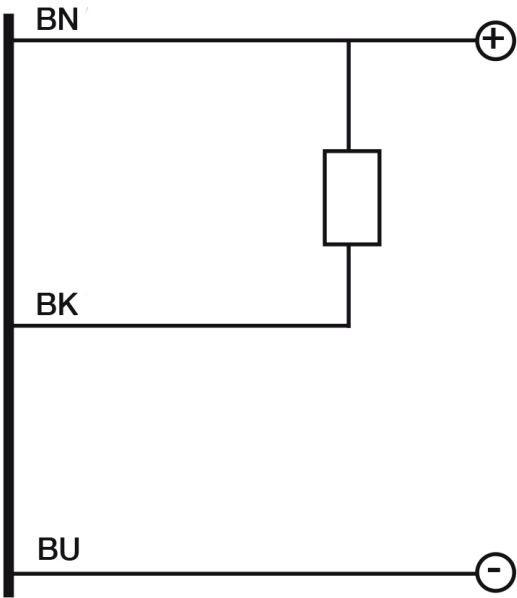
|                      |               |
|----------------------|---------------|
| Supplied Accessories | 2 nuts M5x0.5 |
|----------------------|---------------|

Generical Data

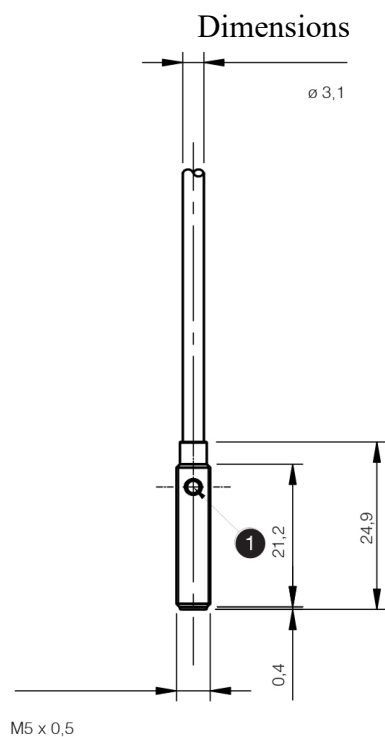
|                       |                       |
|-----------------------|-----------------------|
| Dimensions            | M5 x 0,5 / L = 24,9mm |
| Operating Temperature | -25°C...+70°C         |
| Mechanical Protection | IP67                  |

CONNECTIONS

Eletrical diagram



# OTHERS



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