



# AC1

## AC1/CP-3F

**Ind.d4,PNP-NC,M8 plug,Sch-LD**  
**Ø 4 MM CYLINDRICAL MINIATURIZED INDUCTIVE SENSORS**

## OVERVIEW

- Smooth stainless steel housing
- Ø4 mm diameter
- Yellow output LED 360° visible
- Available 2 m PVC cable models or M8 connector models
- IP 67 protection degree



## TECHNICAL FEATURES

### Detection properties

|                          |                                                                                                                  |
|--------------------------|------------------------------------------------------------------------------------------------------------------|
| Nominal sensing distance | 1,5mm                                                                                                            |
| Operating distance       | 0...1,21mm                                                                                                       |
| Standard target          | 4.5x4.5mm FE360                                                                                                  |
| Correction Factor        | copper: $0,29 \pm 10\%$ / aluminium: $0,23 \pm 10\%$ / brass: $0,31 \pm 10\%$ / 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                    | Ø4 standard flush mount    |
| Functions                      | Proximity                  |
| Outputs                        |                            |
| Output type                    | PNP                        |
| 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            | Ø4 / L = 38,4mm         |
| Mounting              | Shielded                |
| Material              | AISI303 Stainless Steel |
| Housing material      | AISI303 Stainless Steel |
| Weight                | 4g                      |
| Connections           | M8 Plug                 |
| Active Head Material  | PBT                     |
| Operating temperature | -25°C...+70°C           |
| Diameter/Dimension    | Ø4                      |

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                                           |

## Generical Data

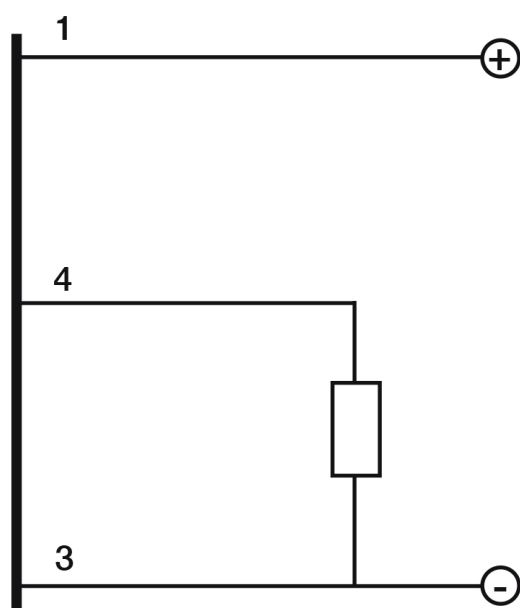
|            |                 |
|------------|-----------------|
| Dimensions | Ø4 / L = 38,4mm |
|------------|-----------------|

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

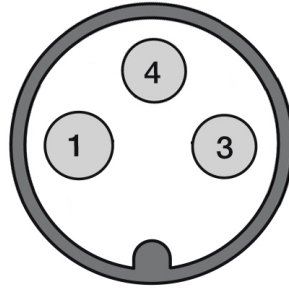
|                       |      |
|-----------------------|------|
| Mechanical Protection | IP67 |
|-----------------------|------|

# CONNECTIONS

Eletrical diagram

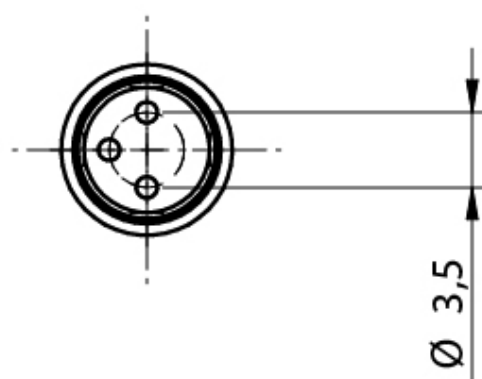
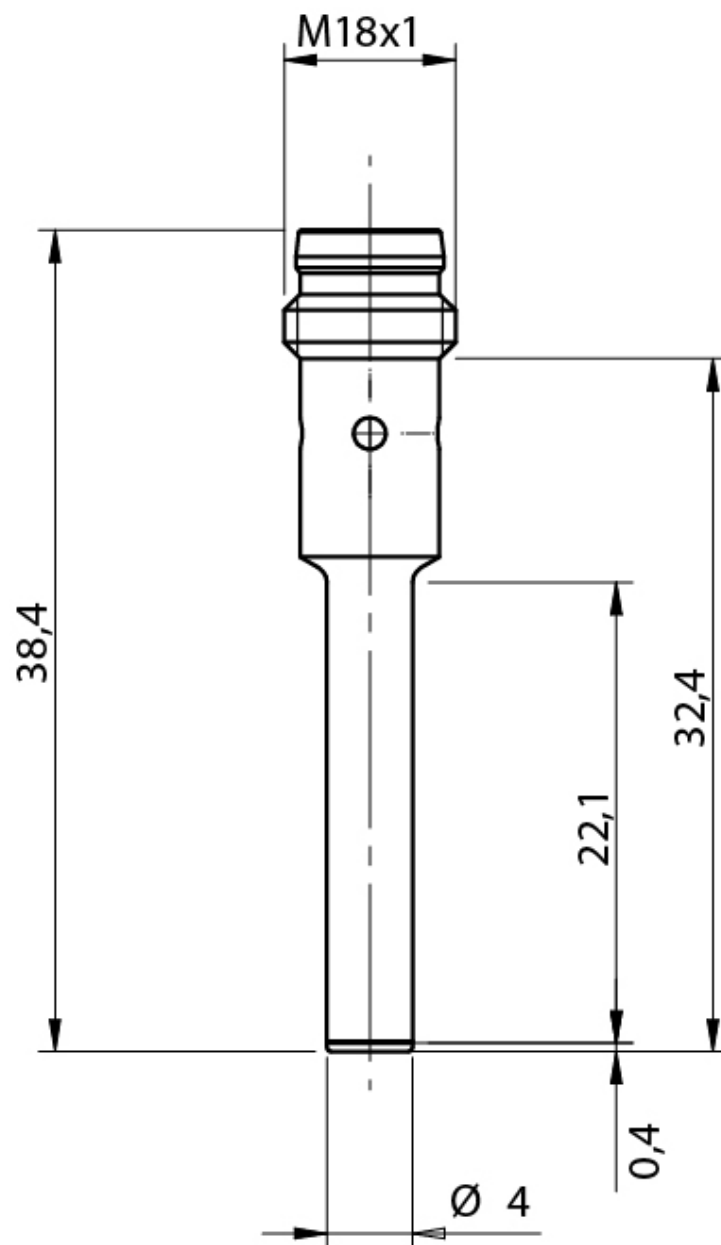


Connector

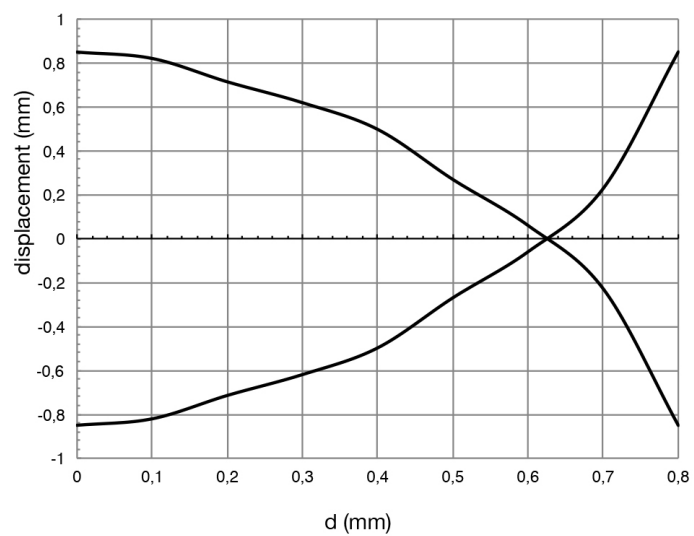


# OTHERS

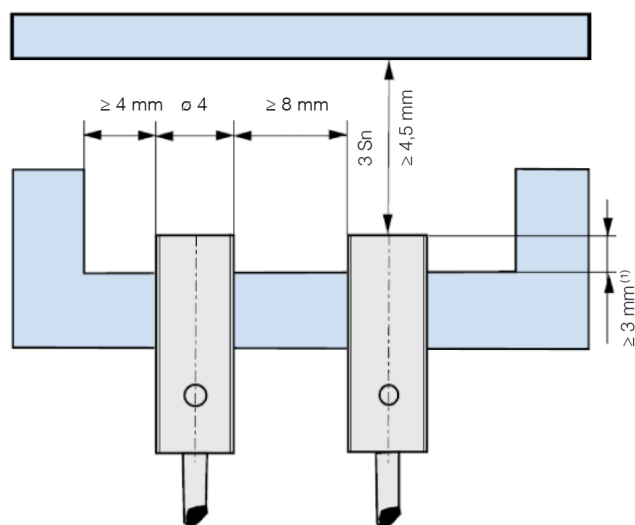
Dimensions



Response curves



### Installation



<sup>(1)</sup>  $\geq 4$  mm without ferro-magnetic material

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