



# AH

## AH1/CN-4F

Ind.d6,5,NPN-NC,M8 plug,Nsch-LD  
Ø 6.5 MM CYLINDRICAL INDUCTIVE SENSORS

## OVERVIEW

- Extremely reduced dimensions
- Metal housing (stainless steel)
- LED status indicator 360° visible
- IP 67 protection degree
- ATEX models, cat. 3, available on request
- Complete protection against electrical damages
- Standard and long distance models
- Standard and short body housing



## TECHNICAL FEATURES

### Detection properties

|                          |                                                                      |
|--------------------------|----------------------------------------------------------------------|
| Nominal sensing distance | 4mm                                                                  |
| Operanting distance      | 0...3,24mm                                                           |
| Standard target          | 12x12mm FE360                                                        |
| Correction Factor        | copper: 0,42 / aluminium: 0,47 / brass: 0,52 / stainless steel: 0,77 |

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

### Application

|             |                              |
|-------------|------------------------------|
| Description | Ø6,5 standard no-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                   | ≤ 200mA                 |
| Leakage current                | ≤ 10µA                  |
| Output voltage drop            | ≤ 1,8V @200mA           |
| 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            | Ø6,5 / L = 50mm         |
| Mounting              | Unshielded              |
| Material              | AISI303 Stainless Steel |
| Housing material      | AISI303 Stainless Steel |
| Weight                | 5g                      |
| Connections           | M8 Plug                 |
| Active Head Material  | PBT                     |
| Operating temperature | -25°C...+70°C           |
| Diameter/Dimension    | Ø6,5                    |

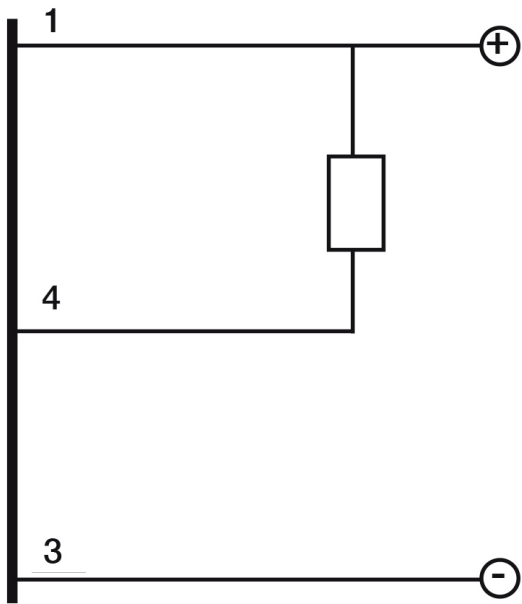
Test/Approvals

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

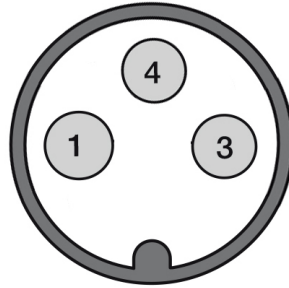
|                       |                 |
|-----------------------|-----------------|
| Degree of protection  | IP67            |
| Generical Data        |                 |
| Dimensions            | Ø6,5 / L = 50mm |
| Operating Temperature | -25°C...+70°C   |
| Mechanical Protection | IP67            |

# CONNECTIONS

Eletrical diagram

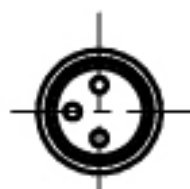
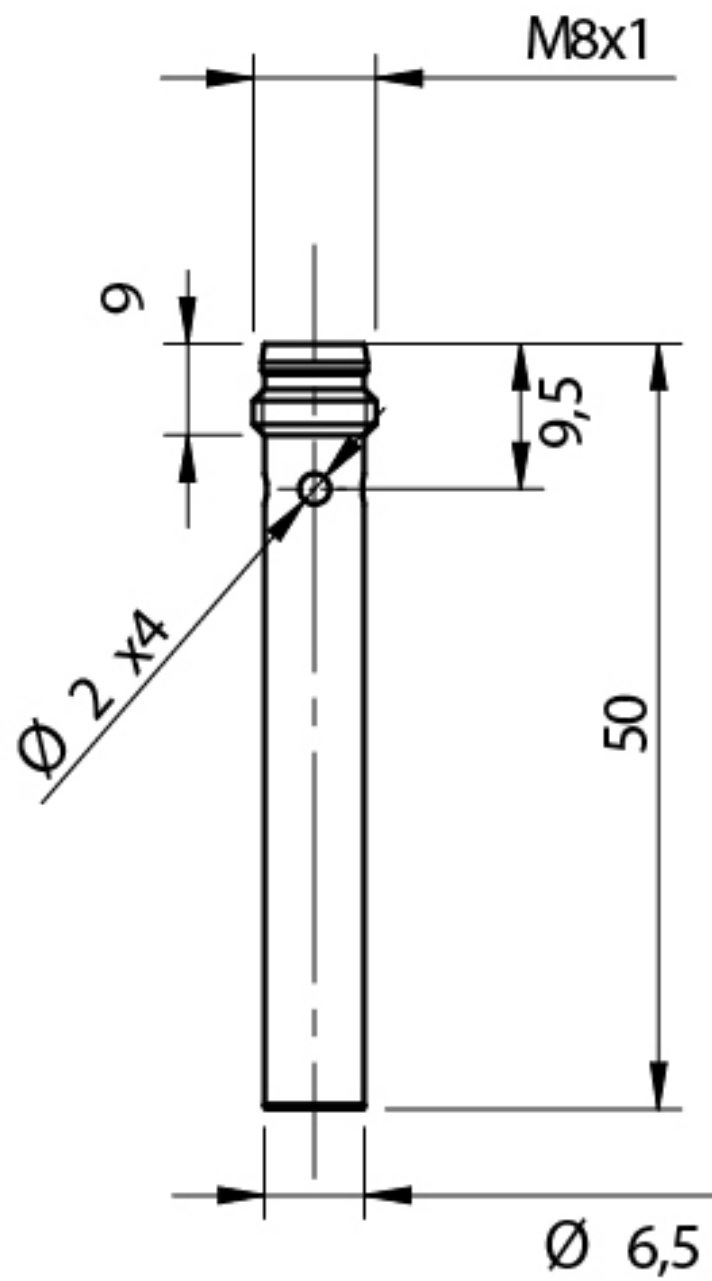


Connector

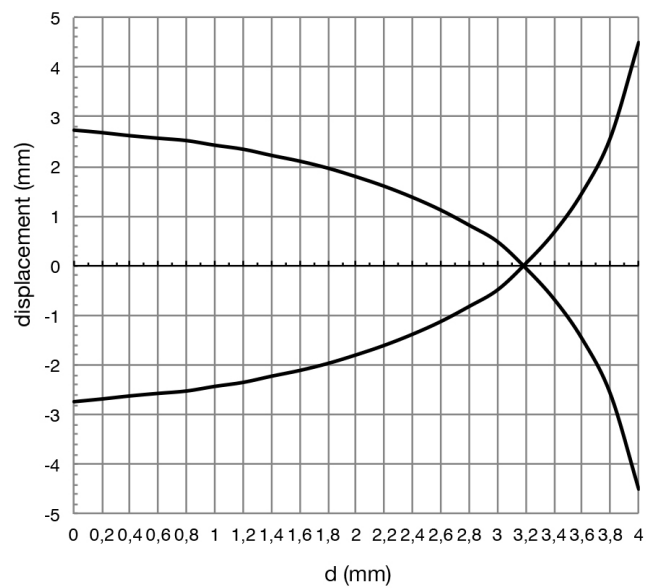


# OTHERS

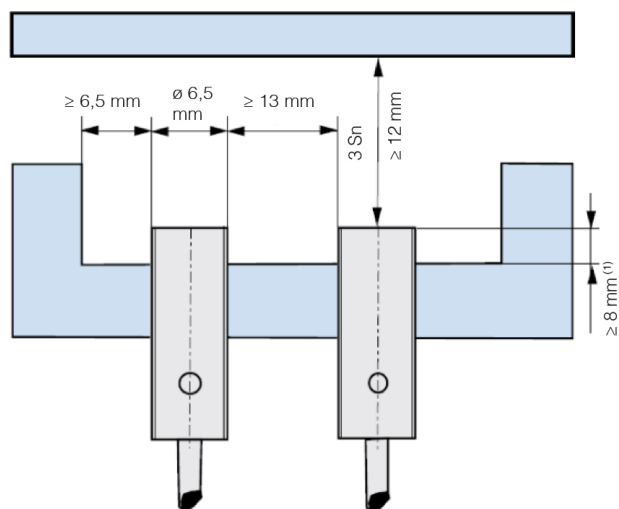
Dimensions



Response curves



### Installation



<sup>(1)</sup> ≥ 2,6 mm for non magnetic materials

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**date of  
printing**  
08/08/2026  
20:20:36