# AH

## AH1/CN-4H

**Ind.d6,5,NPN-NC,M12 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 = 60mm |
| Mounting | Unshielded |
| Material | AISI303 Stainless Steel |
| Housing material | AISI303 Stainless Steel |
| Weight | 5g |
| Connections | M12 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 |

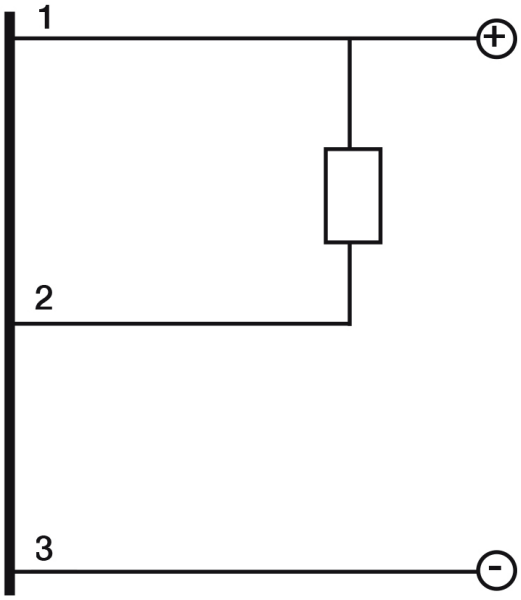
| | |
|---|---|
| Degree of protection | IP67 |

Generical Data

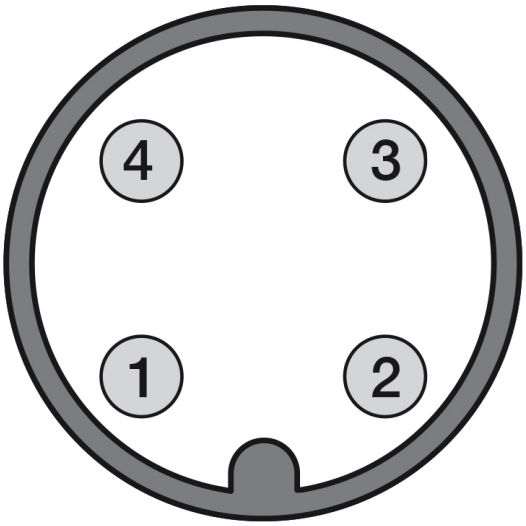
| | |
|---|---|
| Dimensions | Ø6,5 / L = 60mm |
| Operating Temperature | -25°C…+70°C |
| Mechanical Protection | IP67 |

# CONNECTIONS

Eletrical diagram

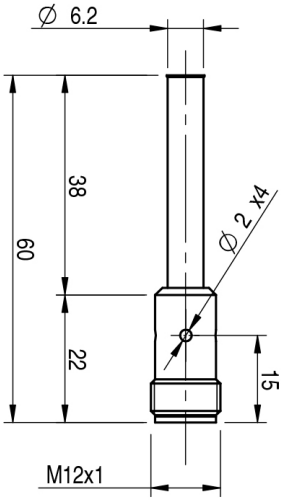



Connector

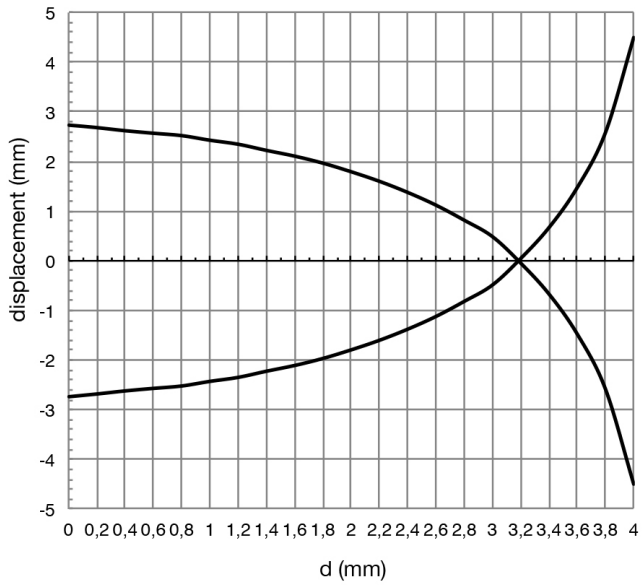



# OTHERS

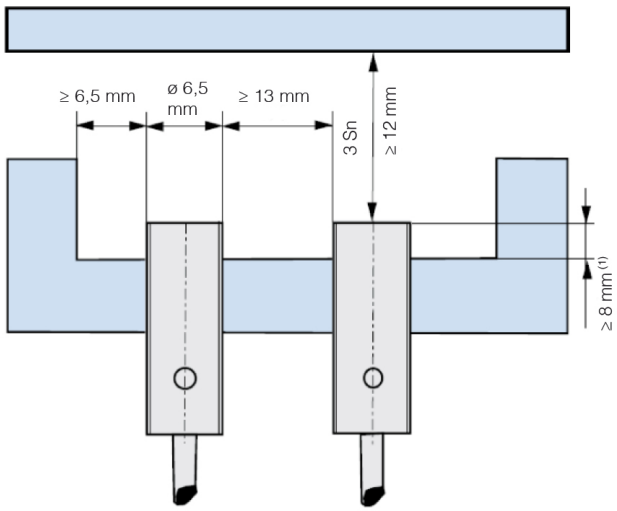
Dimensions




Response curves




## Installation




(1) ≥ 2,6 mm for non magnetic materials

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