

# AE

# AE1/AN-1H

**Ind.M8,NPN-NO,M12 plug,Sch-STD**

**M8 CYLINDRICAL INDUCTIVE SENSORS**

# OVERVIEW

- Extremely reduced measure
- Metal housing
- LED status indicator 360° visible
- IP 67 housing protection
- 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 | 1,5mm |
| Operanting distance | 0…1,21mm |
| Standard target | 8x8mm FE360 |
| Correction Factor | copper: 0,29 / aluminium: 0,38 / brass: 0,49 / stainless steel: 0,78 |
| | |

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

Application

| | |
|---|---|
| Description | M8 standard flush mount |
| Functions | Proximity |

Outputs

| | |
|---|---|
| Output type | NPN |
| Output Function | NO |
| 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 | M8 x 1 / L = 60mm |
| Mounting | Shielded |
| Material | Nickel-plated brass |
| Housing material | Nickel-plated brass |
| Weight | 20g |
| Connections | M12 Plug |
| Active Head Material | PBT |
| Tightening torque | 3Nm |
| Operating temperature | -25°C…+70°C |
| Diameter/Dimension | M8 |

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 |

Accessories

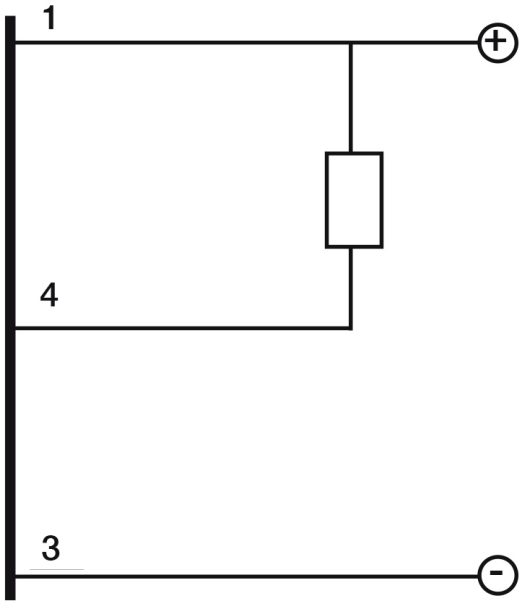
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|---|---|
| Supplied Accessories | 2 nuts M8x1 |

Generical Data

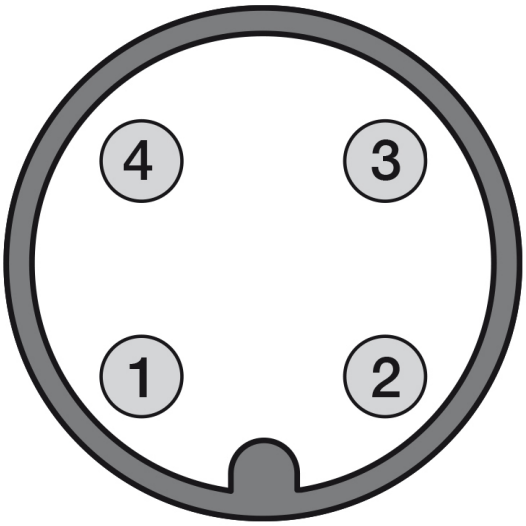
| | |
|---|---|
| Dimensions | M8 x 1 / L = 60mm |
| Operating Temperature | -25°C…+70°C |
| Mechanical Protection | IP67 |

# CONNECTIONS

Eletrical diagram

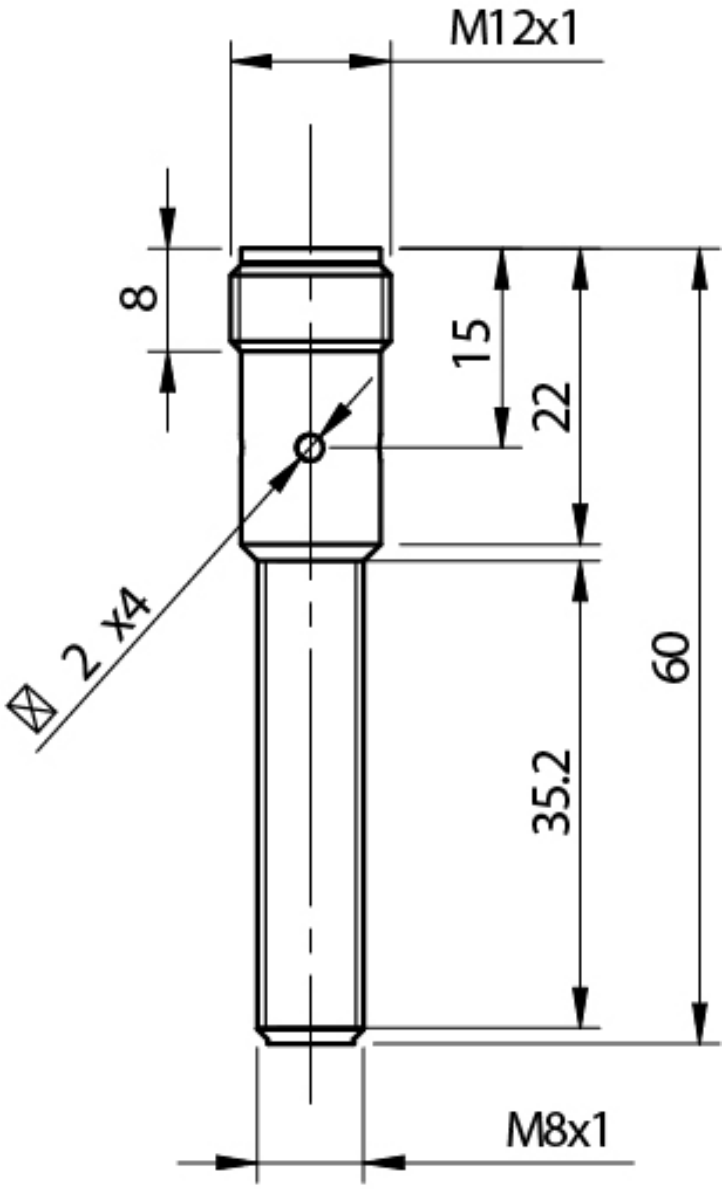


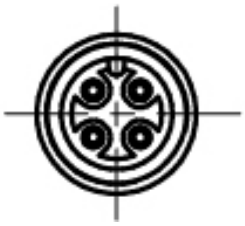

Connector



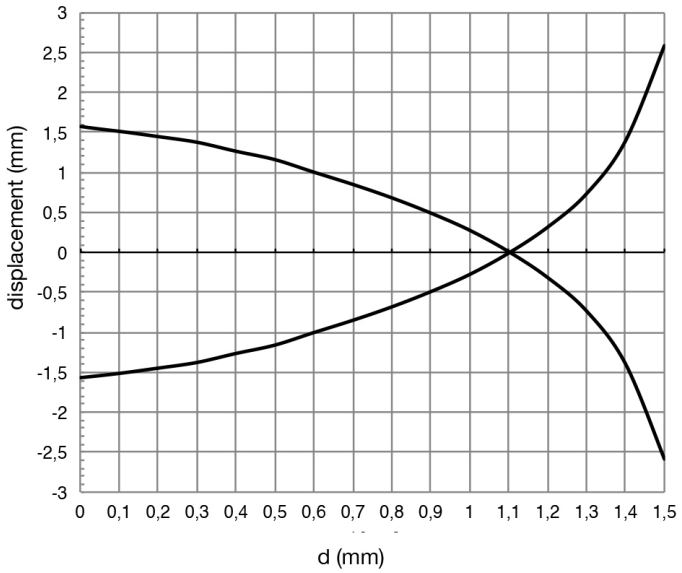

# OTHERS

Dimensions

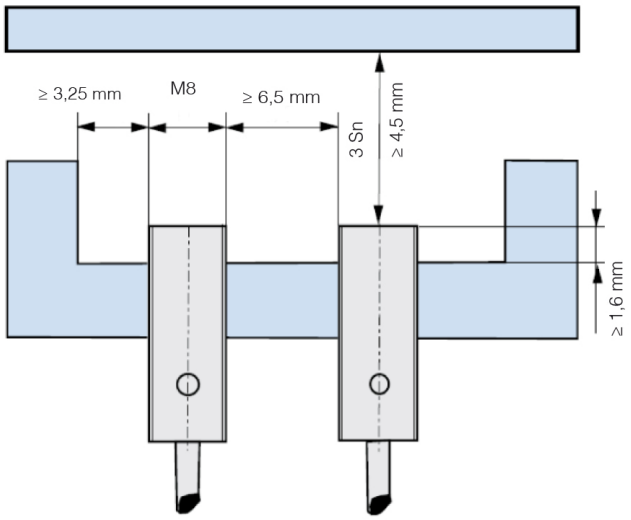


Response curves




Installation




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