# FM

## FMM6/AP-3H

### Ind.M12,PNP-NO,M12 Plug,Sch-LD

**M5 - M8 - M12 - M18 - M30 INDUCTIVE SENSORS WITH FULL METAL HOUSING**

# OVERVIEW

# TECHNICAL FEATURES

Detection properties

| | |
|---|---|
| Nominal sensing distance | 3mm |
| Operanting distance | 0…2,43mm |
| Standard target | 12x12mm FE360 |
| Correction Factor | copper: 0 / aluminium: 0 / brass: 0,1 / stainless steel: 0,53 |
| Thermal drift of Sr | < 10% |
| Repeat Accuracy | < 5% (UB 24V Ta=23°C ±5°C) |
| Hysteresis | 1 … 20% |

Application

| | |
|---|---|
| Description | M12 short flush mount |
| Functions | Proximity |

Outputs

| | |
|---|---|
| Output type | PNP |
| Output Function | NO |
| Switching frequency | 200Hz |

Electrical data

| | |
|---|---|
| Operating Voltage | 10...30Vdc |
| No-Load supply current | ≤ 10mA |
| Load current | ≤ 200mA |
| Leakage current | ≤ 10µA |
| Output voltage drop | ≤ 1,5V @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 | M12 x 1 / L = 52mm |
| Mounting | Shielded |
| Material | AISI316L Stainless Steel |
| Housing material | AISI316L Stainless Steel |
| Weight | 20g |
| Connections | M12 Plug |
| Active Head Material | stainless steel AISI316L |
| Tightening torque | 10Nm |
| Operating temperature | -25°C…+70°C |
| 0,25mm | 0,50mm |
| Diameter/Dimension | M12 |

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 | IP68, IP69K |

| | |
|---|---|
| IK05 | IK05 |
| 80bar | 80bar |

Accessories

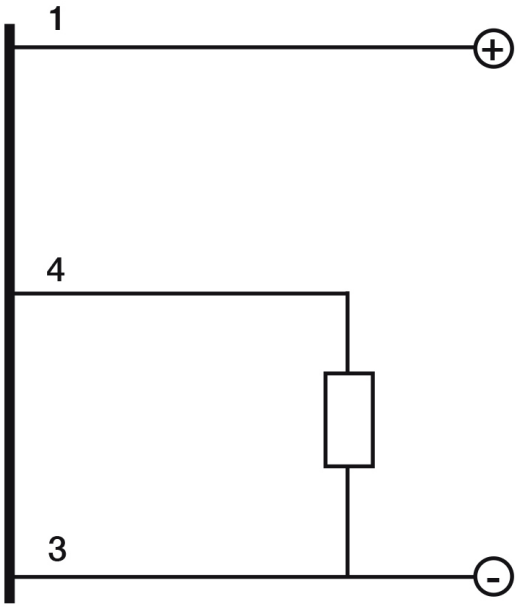
| | |
|---|---|
| Supplied Accessories | 2 nuts M12x1 |

Generical Data

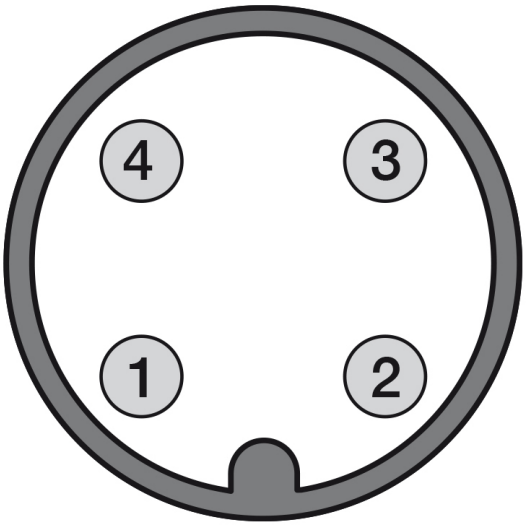
| | |
|---|---|
| Dimensions | M12 x 1 / L = 52mm |
| Operating Temperature | -25°C…+70°C |
| Mechanical Protection | IP68 / IP69K |

# CONNECTIONS

Eletrical diagram




Connector

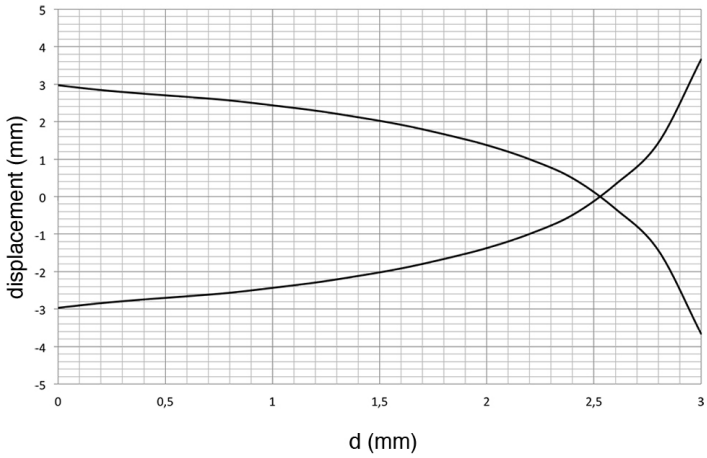



# OTHERS

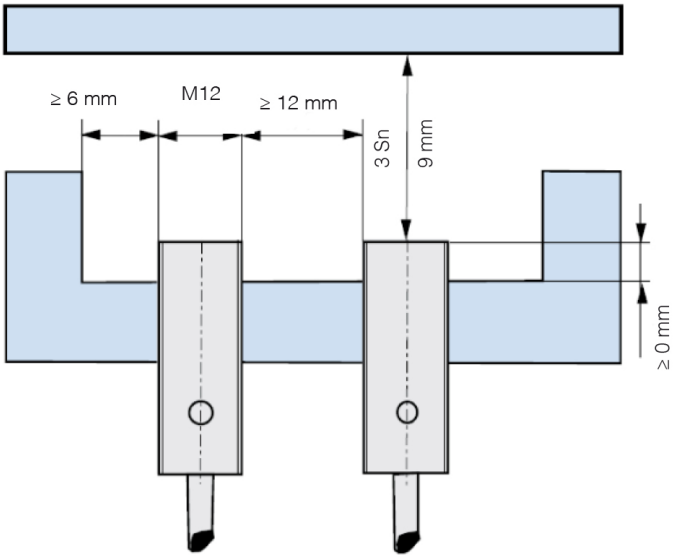
Dimensions

| Image: |
|---|

Response curves




Installation




**Datasensing S.r.l.**
Strada S.Caterina, 235
41122 Modena (MO)
Tel. 059 420411
Fax 059 253973
E-mail
info@datasensing.com

**date of printing**
25/10/2026
05:00:20