



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 |
| Operating 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 | $\leq 10\text{mA}$ |
| Load current | $\leq 200\text{mA}$ |
| Leakage current | $\leq 10\mu\text{A}$ |
| Output voltage drop | $\leq 1,5\text{V @}200\text{mA}$ |
| Max ripple content | $\leq 10\%$ |
| LED indicators | Yellow LED output state |
| Time delay before availability | $\leq 50\text{ms}$ |
| 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

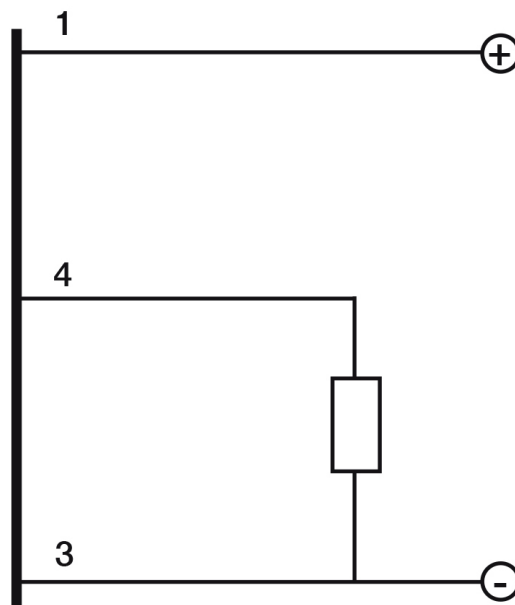
| | |
|----------------------|--------------|
| Supplied Accessories | 2 nuts M12x1 |
|----------------------|--------------|

Generical Data

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

CONNECTIONS

Electrical diagram



Connector

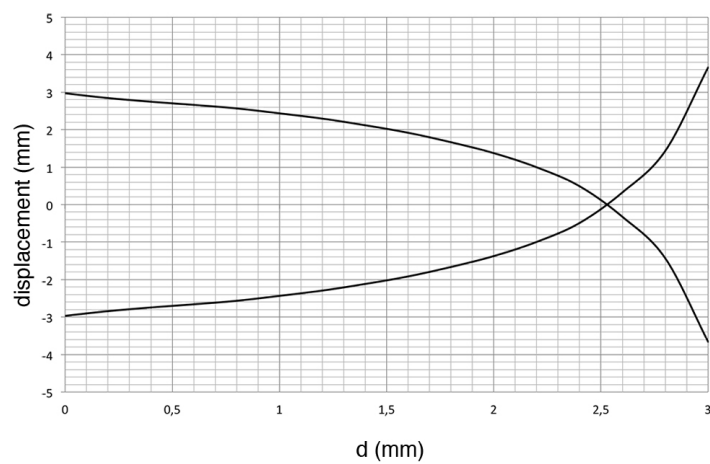


OTHERS

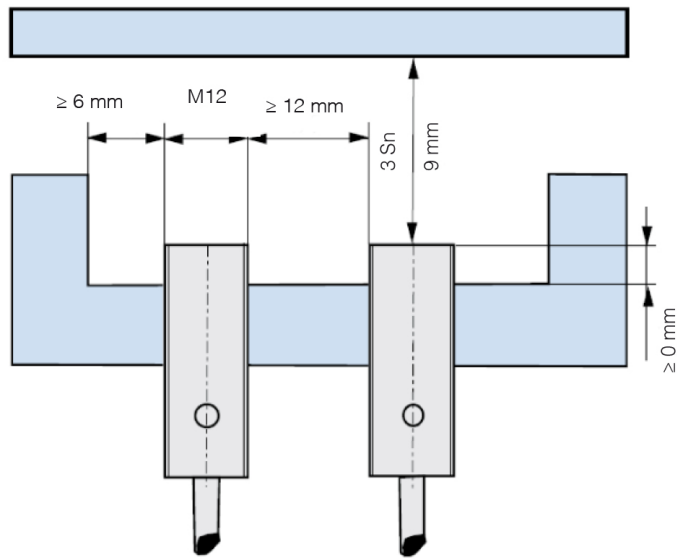
Dimensions

Image:

Response curves



Installation



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**date of
printing**
15/06/2026
11:35:55