



# FM

## FMM1/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 standard 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
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#### Mechanical data

Dimensions	M12 x 1 / L = 64,2mm
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Mounting	Shielded
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Material	AISI316L Stainless Steel
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Housing material	AISI316L Stainless Steel
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Weight	20g
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Connections	M12 Plug
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Active Head Material	stainless steel AISI316L
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Tightening torque	10Nm
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Operating temperature	-25°C...+70°C
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0,25mm	0,50mm
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Diameter/Dimension	M12
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#### Test/Approvals

Approvals	CE cULus
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EMC compatibility	IEC 60947-5-2
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Shocks and vibrations	Vibration IEC 60068-2-6 / Shock IEC 60068-2-27
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Degree of protection	IP68, IP69K
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IK05

IK05

80bar

80bar

### Accessories

Supplied Accessories

2 nuts M12x1

### Generical Data

Dimensions

M12 x 1 / L = 64,2mm

Operating Temperature

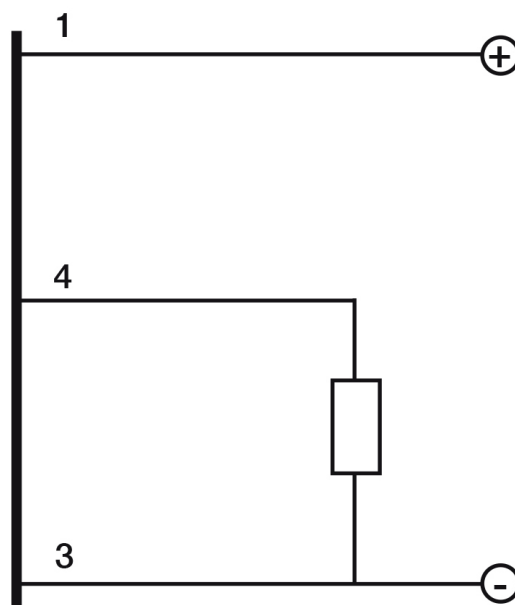
-25°C...+70°C

Mechanical Protection

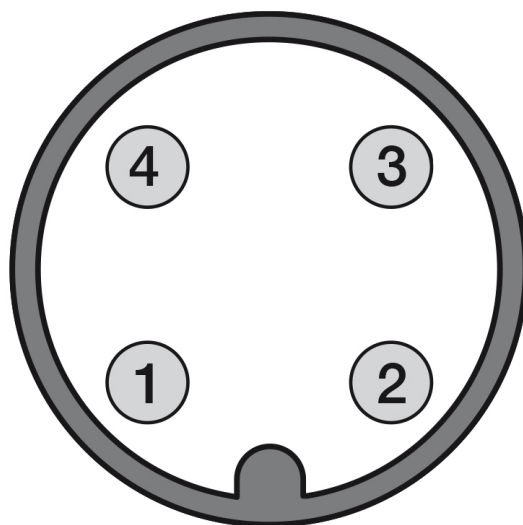
IP68 / IP69K

## CONNECTIONS

Electrical diagram



Connector



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