

FM

FMM6/AN-3H

Ind.M12,NPN-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	NPN
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

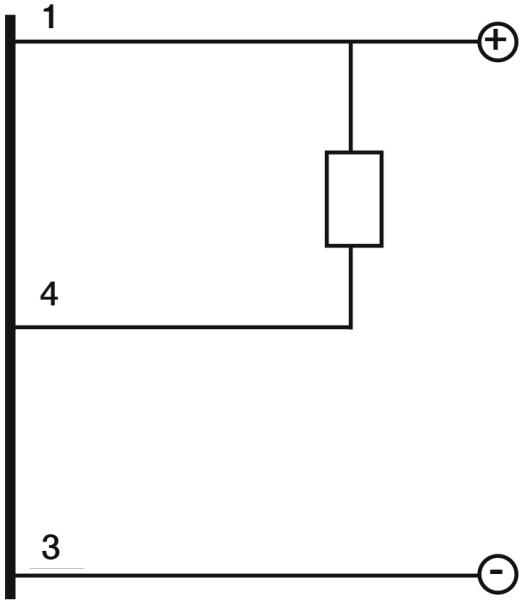
Supplied Accessories	2 nuts M12x1

Generical Data

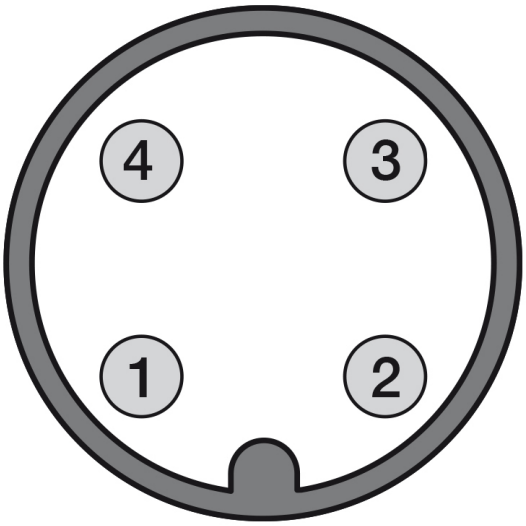
Dimensions	M12 x 1 / L = 52mm
Operating Temperature	-25°C…+70°C
Mechanical Protection	IP68 / IP69K

CONNECTIONS

Eletrical diagram



Connector

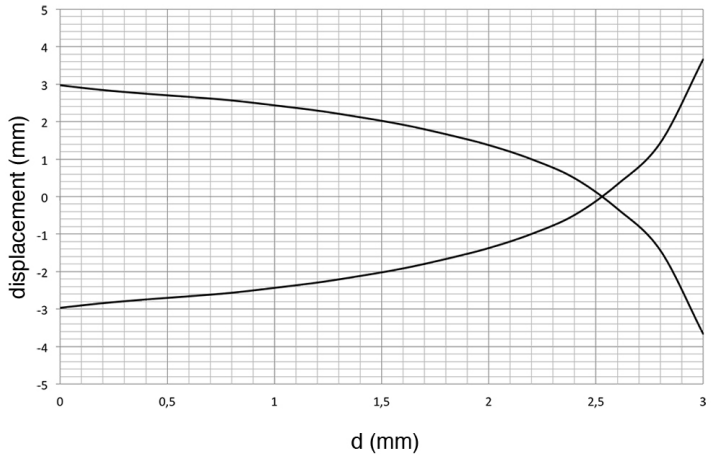


OTHERS

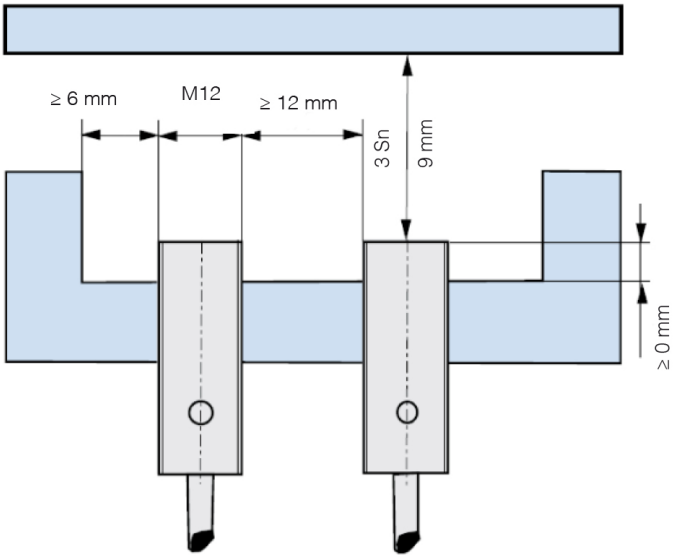
Dimensions

Image:

Response curves



Installation



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