

PFM1/AP-3H

cylindrical inductive

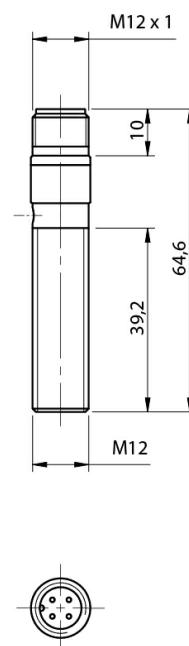


Micro Detectors

Italian Sensors Technology



Indicative image



Detection properties

Nominal sensing distance	4mm
Operanting distance	0...3,24mm
Standard target	12x12mm FE360
Correction Factor	copper: 0,30 / aluminium: 0,35 / brass: 0,40 / stainless steel: 0,75
Thermal drift of Sr	< 10%
Repeat Accuracy	5% (UB 24V Ta=23°C ±5°C)
Hysteresis	1 ... 20%

Outputs

Output type	PNP
Output Function	NO
Switching frequency	2kHz

Electrical data

Operating Voltage	10 - 30Vdc
No-Load supply current	≤ 15mA
Load current	≤ 200mA
Leakage current	≤ 15μA
Output voltage drop	≤ 2V @200mA
Max ripple content	≤10%
LED indicators	Yellow LED output state
Time delay before availability	50ms
Short-circuit protection	Yes (auto-reset)
Reverse Polarity Protection	Yes
Protection against inductive loads	Yes

Mechanical data

Dimensions	M12 x 1 / L = 64,6mm
Mounting	Shielded
Weight	30g
Housing Material	stainless steel AISI316L
Connections	M12 Plug
Active Head Material	PPS
Tightening torque	25Nm
Operating temperature	-40°C...+80°C (up to 100°C for short exposure during cleaning process)

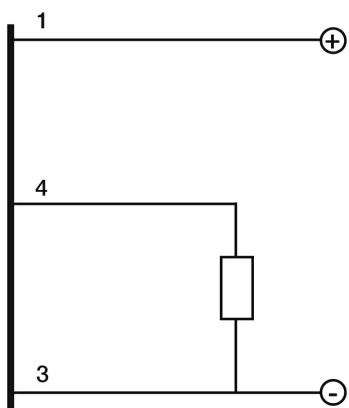
Test/Approvals

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	IP 67 (EN60529) - IP68 (1m, 7 days) - IP69K

Accessories

Supplied Accessories	2 nuts M12x1
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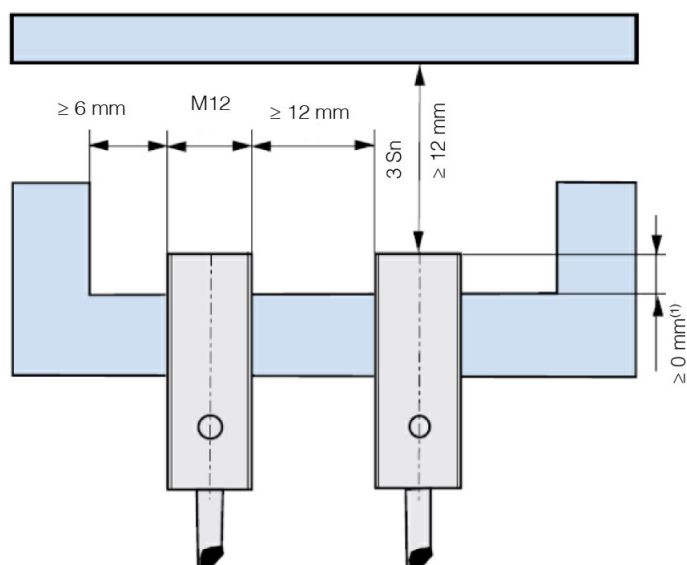
ELECTRICAL DIAGRAMS OF THE CONNECTIONS



CONNECTOR



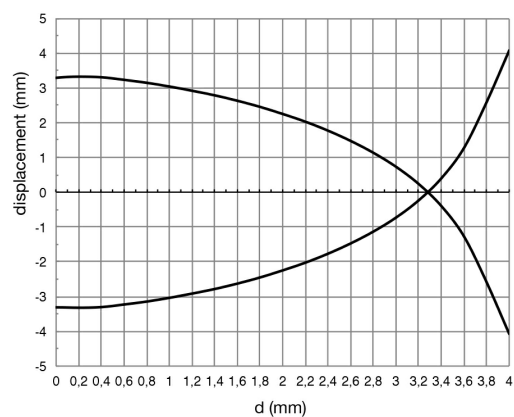
INSTALLATION



⁽¹⁾ $\geq 3,6 \text{ mm}$ for non magnetic materials

RESPONSE CURVES

Disassamento Parallelo



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