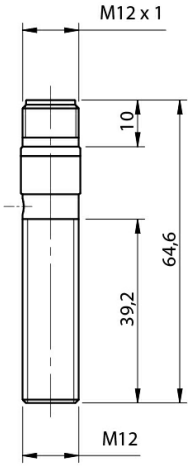
PFM1/AN-3H

PFM

Indicative image

M12 CYLINDRICAL INDUCTIVE SENSORS FOR FOOD AND BEVERAGE APPLICATIONS

- AISI 316L (DIN 1.4404) stainless steel housing
- LED status indicator
- IP67 – IP68 – IP69K protection degree
- ATEX models, cat. 3, available on request
- Complete protection against electrical damages
- Standard and long distance models



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	NPN
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

Mounting	Shielded
Dimensions	M12 x 1 / L = 64,6mm
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)
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

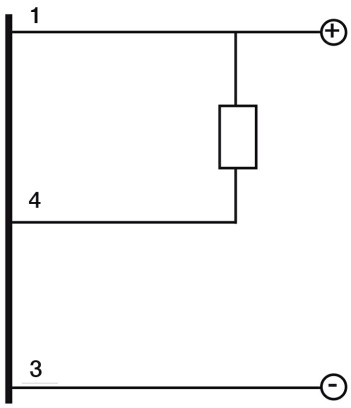
Accessories

Supplied Accessories	2 nuts M12x1

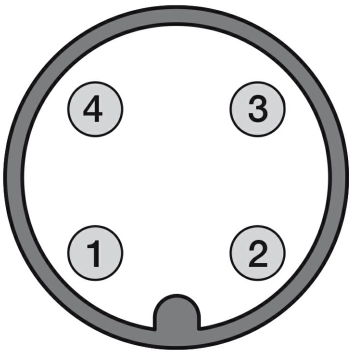
Generical Data

Dimensions	M12 x 1 / L = 64,6mm
Operating Temperature	-40°C...+80°C (up to 100°C for short exposure during cleaning process)
Mechanical Protection	IP68, IP69K

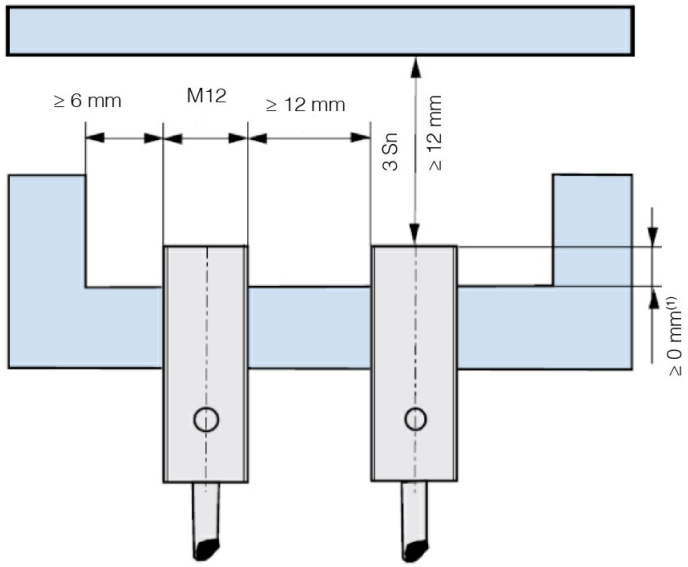
ELECTRICAL DIAGRAMS OF THE CONNECTIONS



CONNECTOR



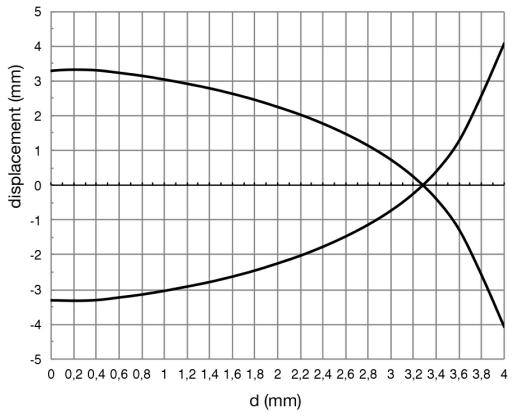
INSTALLATION



(1) ≥ 3,6 mm for non magnetic materials

RESPONSE CURVES

Parallel offset



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