

AM1/AP-4HNBK

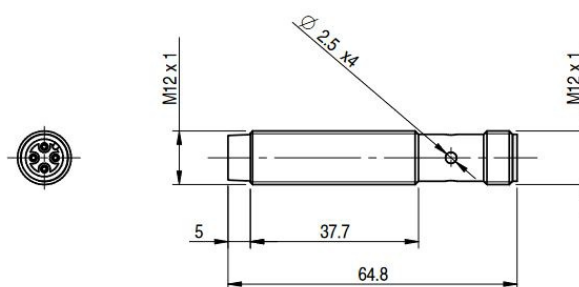
AM



Indicative image

M12 CYLINDRICAL INDUCTIVE SENSORS

- Wide range of models: standard, short body, long distance
- Output: cable, M12 and M8 plug cable exit
- Models with 2, 3 wires
- ATEX models, cat. 3, available on request



Detection properties

Nominal sensing distance	8mm
Operanting distance	0...6,4mm
Standard target	24x24mm FE360
Correction Factor	copper: 0,41 / aluminium: 0,46 / brass: 0,52 / stainless steel: 0,71
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	≤ 10mA

Load current	≤ 200mA
Leakage current	≤ 10μA
Output voltage drop	≤ 1,8V @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	Unshielded
Dimensions	M12 x 1 / L= 64,8mm
Weight	30g
Housing Material	Nickel-plated brass
Connections	M12 Plug
Active Head Material	PBT
Tightening torque	10Nm
Operating temperature	-25°C...+70°C
Diameter/Dimension	M12

Test/Approvals

Approvals	CE UR
EMC compatibility	IEC 60947-5-2
Shocks and vibrations	Vibration IEC 60068-2-6 / Shock IEC 60068-2-27
Degree of protection	IP67

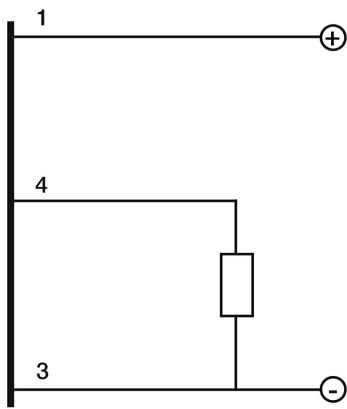
Accessories

Supplied Accessories	2 nuts M12x1
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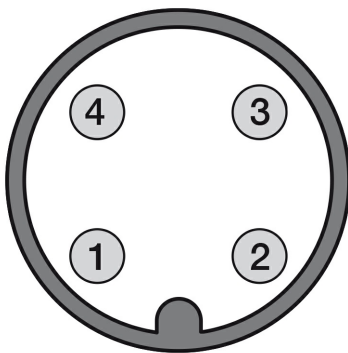
Generical Data

Dimensions	M12 x 1 / L= 64,8mm
Operating Temperature	-25°C...+70°C
Mechanical Protection	IP67

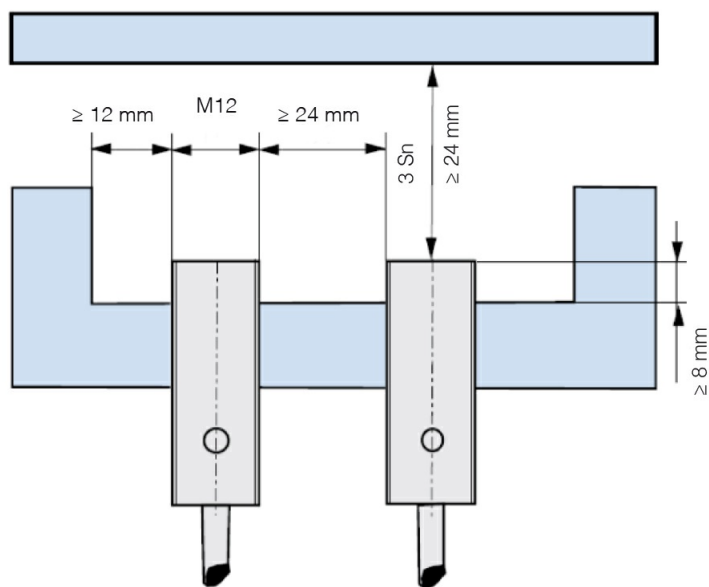
ELECTRICAL DIAGRAMS OF THE CONNECTIONS



CONNECTOR

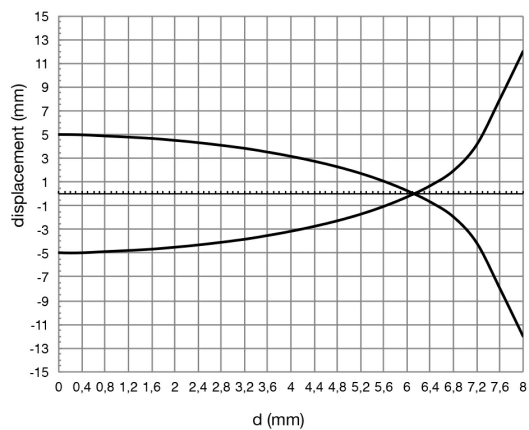


INSTALLATION



RESPONSE CURVES

Parallel offset



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