



AH

AH1/AN-1F

Ind.d6,5,NPN-NO,M8 plug,Sch-STD
Ø 6.5 MM CYLINDRICAL INDUCTIVE SENSORS

OVERVIEW

- Extremely reduced dimensions
- Metal housing (stainless steel)
- LED status indicator 360° visible
- IP 67 protection degree
- ATEX models, cat. 3, available on request
- Complete protection against electrical damages
- Standard and long distance models
- Standard and short body housing



TECHNICAL FEATURES

Detection properties

Nominal sensing distance	1,5mm
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Operanting distance	0...1,21mm
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Standard target	8x8mm FE360
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Correction Factor	copper: 0,06 / aluminium: 0,13 / brass: 0,24 / stainless steel: 0,56
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Thermal drift of Sr	< 10%
Repeat Accuracy	< 5% (UB 24V Ta=23°C ±5°C)
Hysteresis	1 ... 20%

Application

Description	Ø6,5 standard flush mount
Functions	Proximity

Outputs

Output type	NPN
Output Function	NO
Switching frequency	5kHz

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
Reverse Polarity Protection	Yes
Impulsive Overvoltage Protection	Yes
Protection against inductive loads	Yes

Mechanical data

Dimensions	Ø6,5 / L = 50mm
Mounting	Shielded
Material	AISI303 Stainless Steel
Housing material	AISI303 Stainless Steel
Weight	5g
Connections	M8 Plug
Active Head Material	PBT
Operating temperature	-25°C...+70°C
Diameter/Dimension	Ø6,5

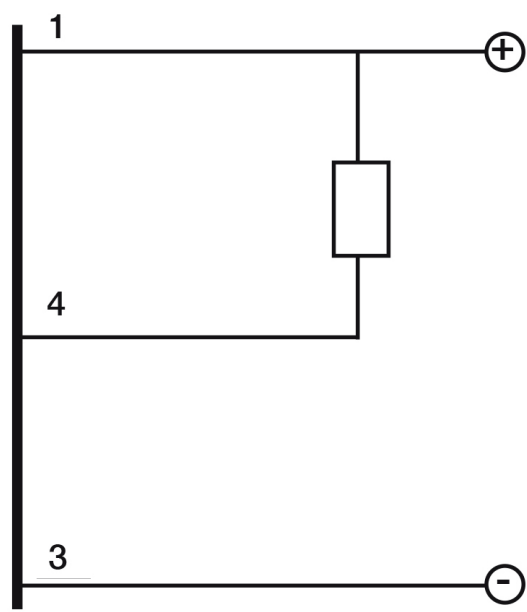
Test/Approvals

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
Generical Data	
Dimensions	Ø6,5 / L = 50mm
Operating Temperature	-25°C...+70°C
Mechanical Protection	IP67

CONNECTIONS

Eletrical diagram

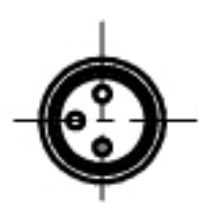
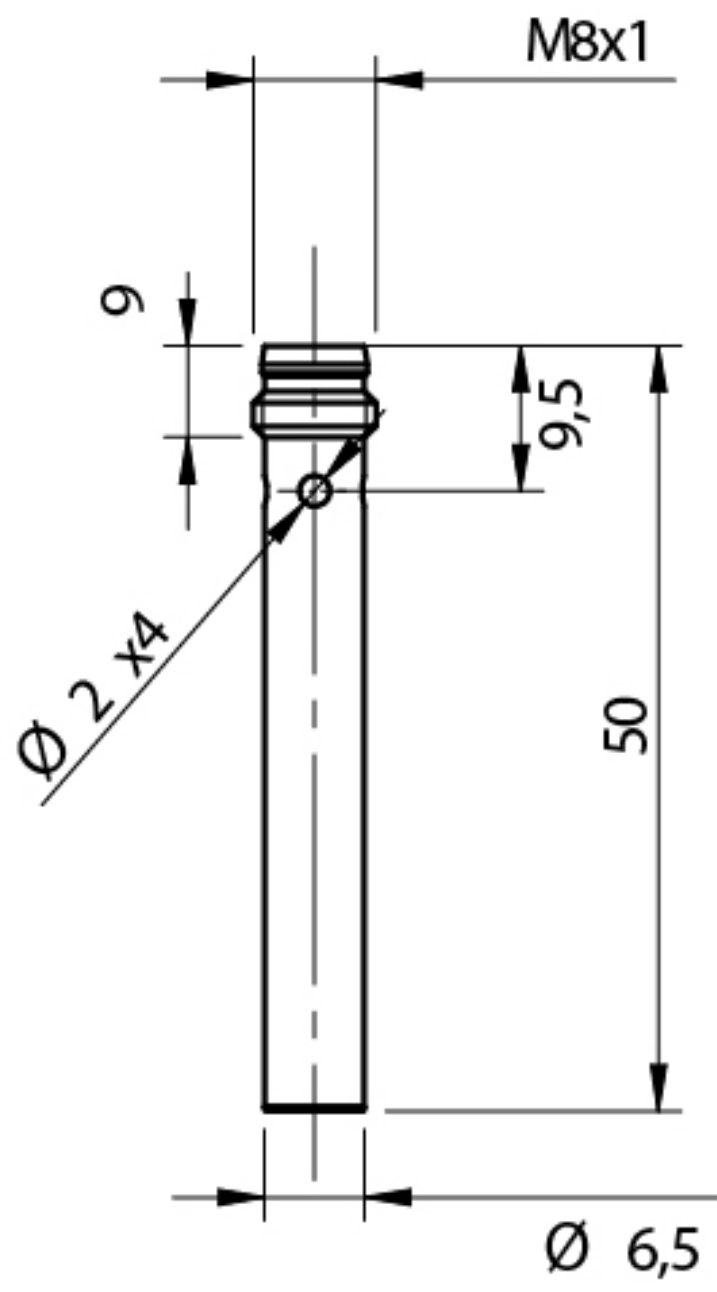


Connector

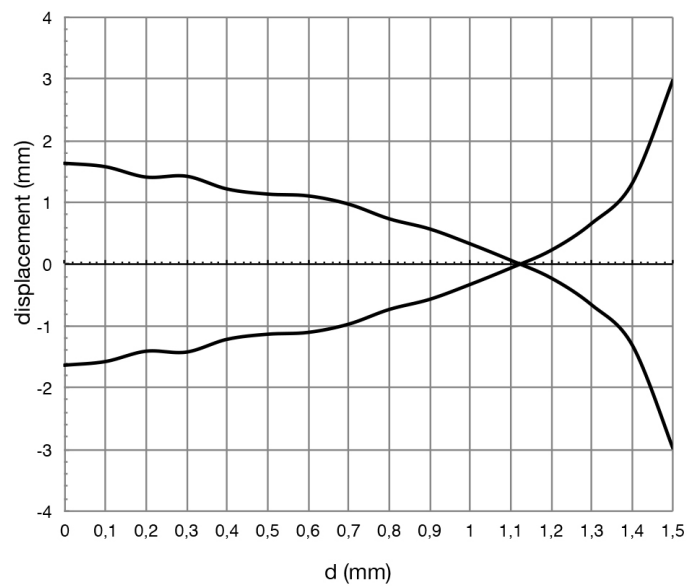


OTHERS

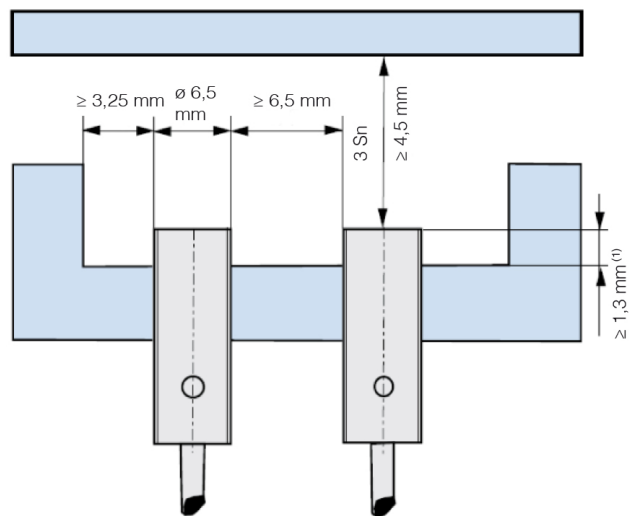
Dimensions



Response curves



Installation



⁽¹⁾ ≥ 2,6 mm for non magnetic materials

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