



AHS

AHS/AN-1F

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

OVERVIEW



TECHNICAL FEATURES

Detection properties

Nominal sensing distance	1,5mm
Operanting distance	0...1,21mm
Standard target	6,5x6,5mm FE360
Correction Factor	copper: $0,10 \pm 10\%$ / aluminium: $0,05 \pm 10\%$ / brass: $0,13 \pm 10\%$ / stainless steel: $0,54 \pm 10\%$
Thermal drift of Sr	< 10%
Repeat Accuracy	< 5% (UB 24V Ta=23°C $\pm 5^{\circ}\text{C}$)
Hysteresis	1 ... 20%

Application	
Description	Ø6,5 mini flush mount
Functions	Proximity
Outputs	
Output type	NPN
Output Function	NO
Switching frequency	7kHz
Electrical data	
Operating Voltage	10...30Vdc
No-Load supply current	≤ 10mA
Load current	≤ 100mA
Leakage current	≤ 10µA
Output voltage drop	≤ 1,5V @100mA
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 = 29,4mm
Mounting	Shielded
Material	AISI303 Stainless Steel
Housing material	AISI303 Stainless Steel
Weight	4g
Connections	M8 Plug
Active Head Material	PBT
Operating temperature	-25°C...+70°C
Diameter/Dimension	Ø6,5

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	IP67

Generical Data

Dimensions	Ø6,5 / L = 29,4mm
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Operating Temperature

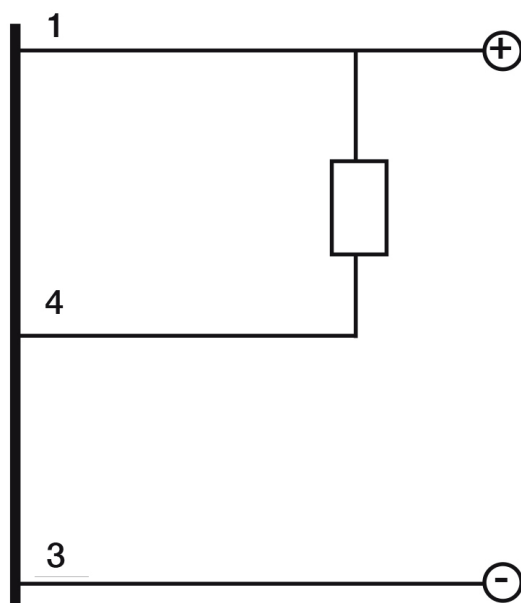
-25°C...+70°C

Mechanical Protection

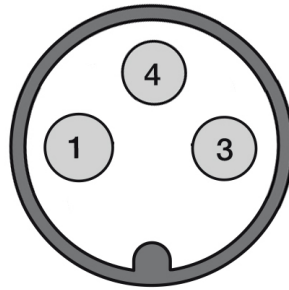
IP67

CONNECTIONS

Electrical diagram

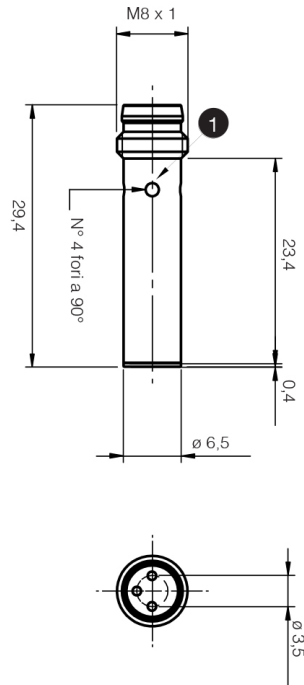


Connector

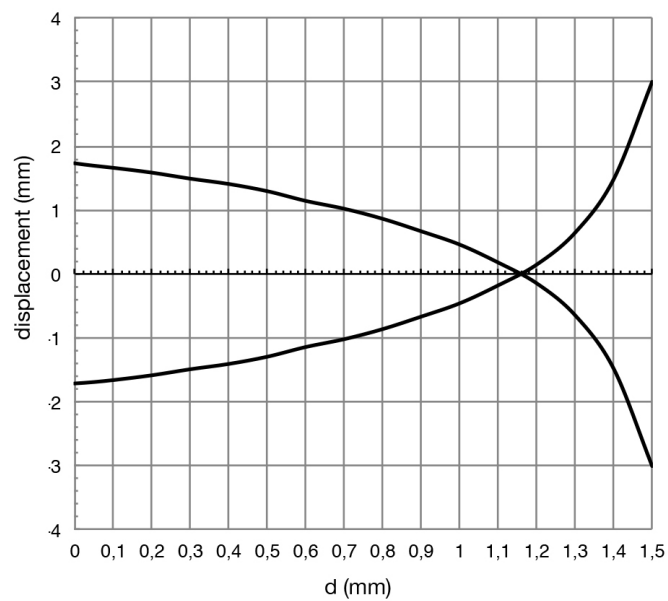


OTHERS

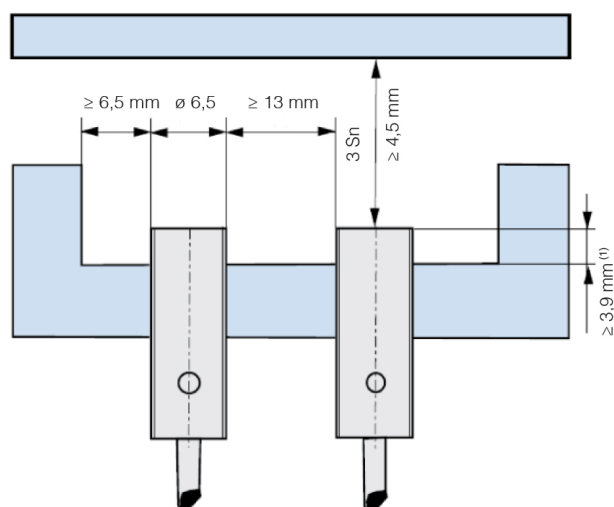
Dimensions



Response curves



Installation



⁽¹⁾ ≥ 4 mm without ferro-magnetic material

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