



AB1

AB1/AN-3A

Ind.M4,NPN-NO,Cable,Sch-LD
M4 CYLINDRICAL MINIATURIZED INDUCTIVE SENSORS

OVERVIEW

- Complete range of cylindrical ultraminiaturized inductive sensors M4
- IP67 protection degree



TECHNICAL FEATURES

Detection properties

Nominal sensing distance	1mm
Operanting distance	0...0,81mm
Standard target	4x4mm FE360
Correction Factor	copper: $0,3 \pm 10\%$ / aluminium: $0,22 \pm 10\%$ / brass: $0,32 \pm 10\%$ / stainless steel: $0,57 \pm 10\%$
Thermal drift of Sr	< 10%
Repeat Accuracy	< 5% (UB 24V Ta=23°C $\pm 5^{\circ}\text{C}$)

Hysteresis	1 ... 20%
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Application

Description	M4 standard flush mount
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Functions	Proximity
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Outputs

Output type	NPN
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Output Function	NO
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Switching frequency	3,5kHz
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Electrical data

Operating Voltage	10...30Vdc
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No-Load supply current	≤ 10mA
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Load current	≤ 100mA
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Leakage current	≤ 10μA
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Output voltage drop	≤ 1,5V @100mA
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Max ripple content	≤ 10%
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LED indicators	Yellow LED output state
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Time delay before availability	≤ 50ms
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Short-circuit protection	Yes
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Reverse Polarity Protection	Yes
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Impulsive Overvoltage Protection	Yes
Protection against inductive loads	Yes

Mechanical data

Dimensions	M4 x 0,5 / L = 22mm
Mounting	Shielded
Material	AISI303 Stainless Steel
Housing material	AISI303 Stainless Steel
Weight	30g
Connections	2m PUR Cable
Active Head Material	PBT
Tightening torque	1,5Nm
Operating temperature	-25°C...+70°C
Diameter/Dimension	M4

Test/Approvals

Approvals	CE UL
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 M5x0.5
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Generical Data

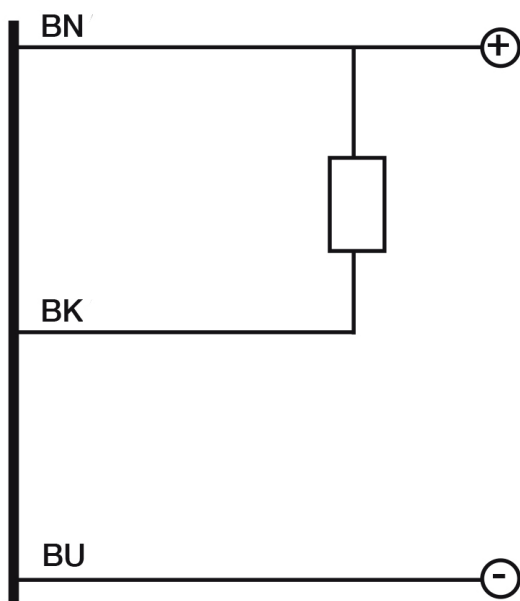
Dimensions	M4 x 0,5 / L = 22mm
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Operating Temperature	-25°C...+70°C
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Mechanical Protection	IP67
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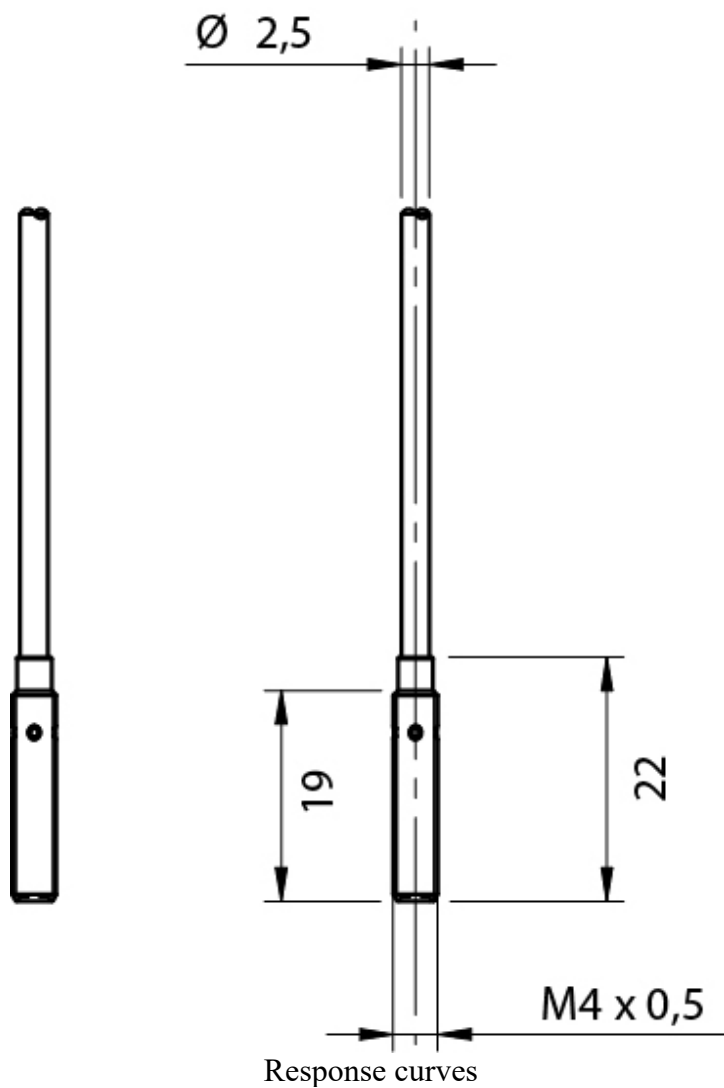
CONNECTIONS

Electrical diagram

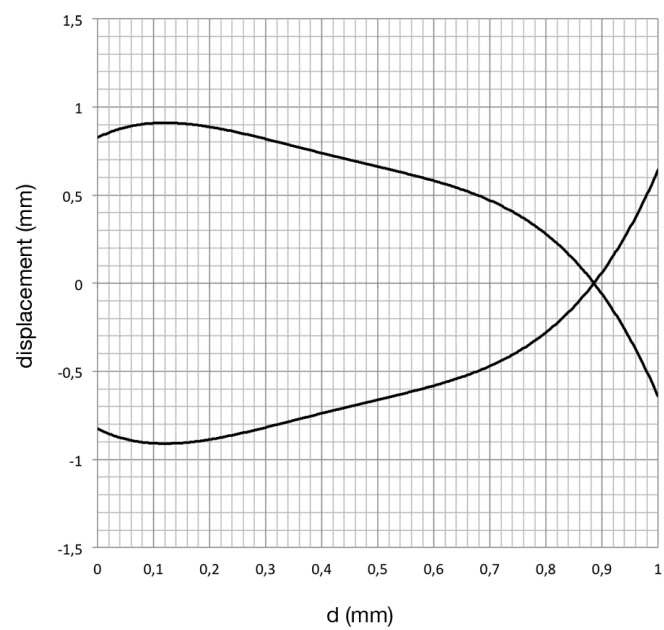


OTHERS

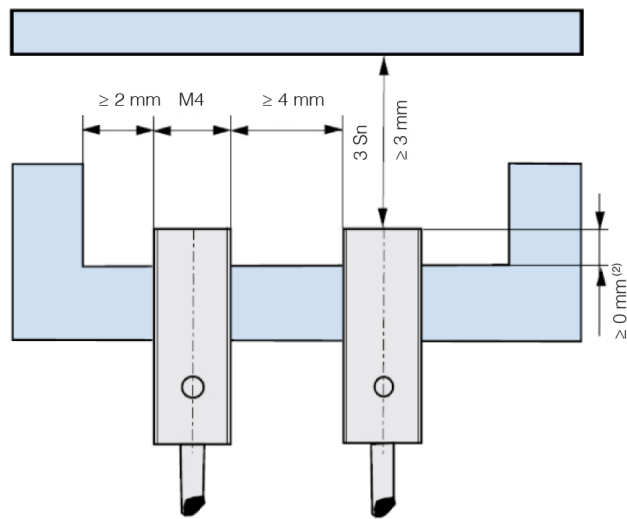
Dimensions



Response curves



Installation



⁽²⁾ $\geq 2.5 \text{ mm}$ without ferro-magnetic material

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