



AC1

AC1/AN-1F

Ind.d4,NPN-NO,M8 plug,Sch-STD
Ø 4 MM CYLINDRICAL MINIATURIZED INDUCTIVE SENSORS

OVERVIEW

- Smooth stainless steel housing
- Ø4 mm diameter
- Yellow output LED 360° visible
- Available 2 m PVC cable models or M8 connector models
- IP 67 protection degree



TECHNICAL FEATURES

Detection properties

Nominal sensing distance	0,8mm
Operating distance	0...0,65mm
Standard target	4x4mm FE360
Correction Factor	copper: $0,28 \pm 10\%$ / aluminium: $0,21 \pm 10\%$ / brass: $0,32 \pm 10\%$ / stainless steel: $0,63 \pm 10\%$
Thermal drift of Sr	< 10%

Repeat Accuracy	< 5% (UB 24V Ta=23°C ±5°C)
Hysteresis	1 ... 20%
Application	
Description	Ø4 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	≤ 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	Ø4 / L = 38,4mm
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	Ø4

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

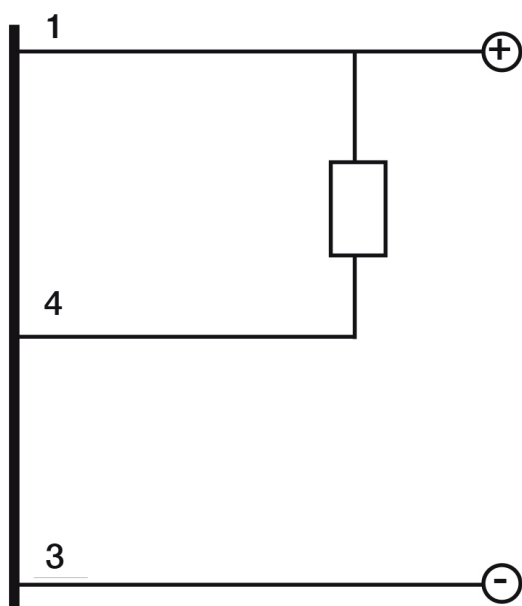
Dimensions	Ø4 / L = 38,4mm
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Operating Temperature	-25°C...+70°C
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Mechanical Protection	IP67
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CONNECTIONS

Electrical diagram

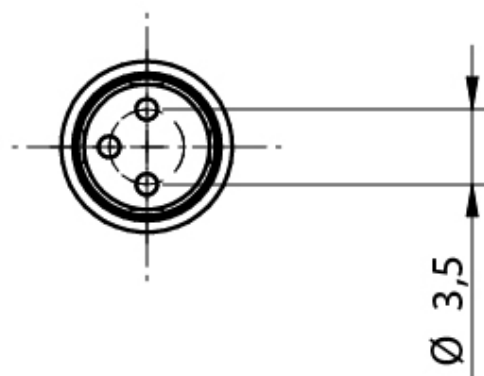
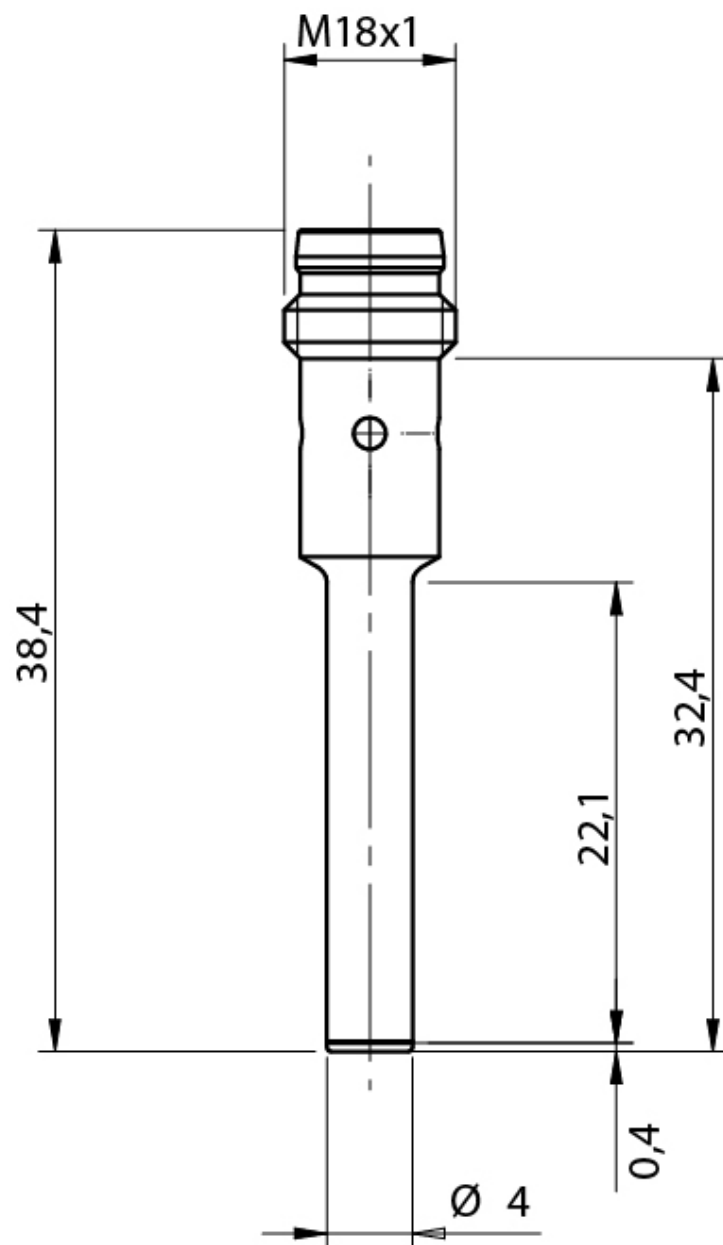


Connector

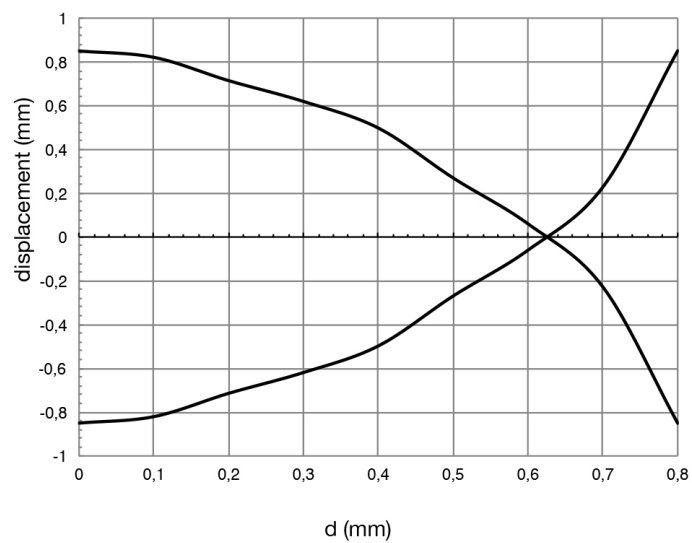


OTHERS

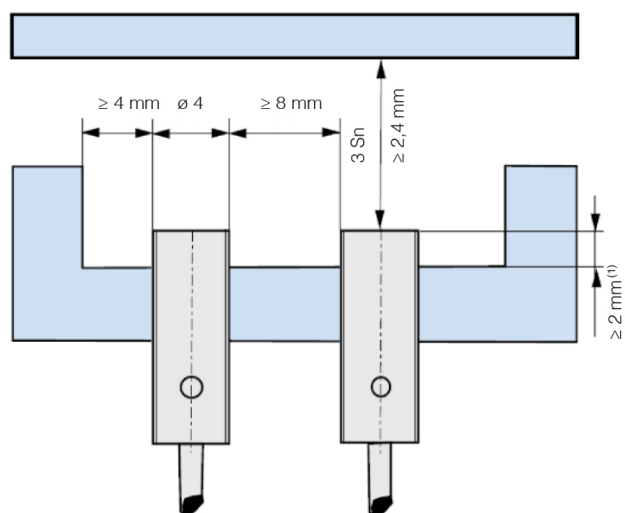
Dimensions



Response curves



Installation



⁽¹⁾ ≥ 3 mm without ferro-magnetic material

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