

# AC1



## AC1/AN-3A

**Ind.d4,NPN-NO,Cable,Sch-LD**  
**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	1,5mm
Operating distance	0...1,21mm
Standard target	4.5x4.5mm FE360
Correction Factor	copper: $0,29 \pm 10\%$ / aluminium: $0,23 \pm 10\%$ / brass: $0,31 \pm 10\%$ / stainless steel: $0,66 \pm 10\%$
Thermal drift of Sr	< 10%

Repeat Accuracy	< 5% (UB 24V Ta=23°C ±5°C)
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Hysteresis	1 ... 20%
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#### Application

Description	Ø4 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	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
Reverse Polarity Protection	Yes
Impulsive Overvoltage Protection	Yes
Protection against inductive loads	Yes

#### Mechanical data

Dimensions	Ø4 / L = 30,2mm
Mounting	Shielded
Material	AISI303 Stainless Steel
Housing material	AISI303 Stainless Steel
Weight	30g
Connections	2m PVC Cable
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

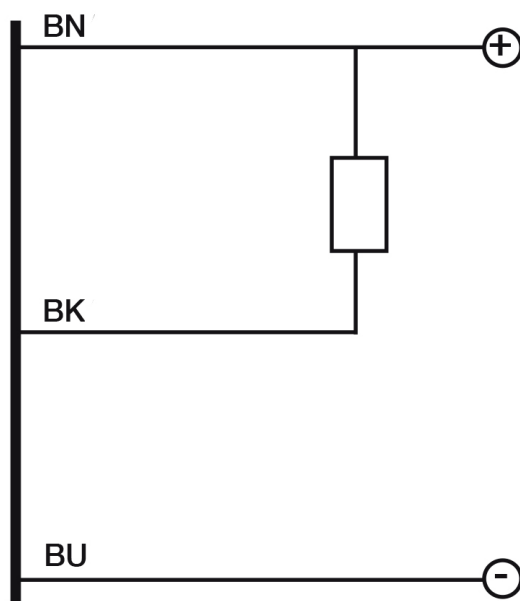
Dimensions  $\varnothing 4 / L = 30,2\text{mm}$

Operating Temperature  $-25^{\circ}\text{C} \dots +70^{\circ}\text{C}$

Mechanical Protection IP67

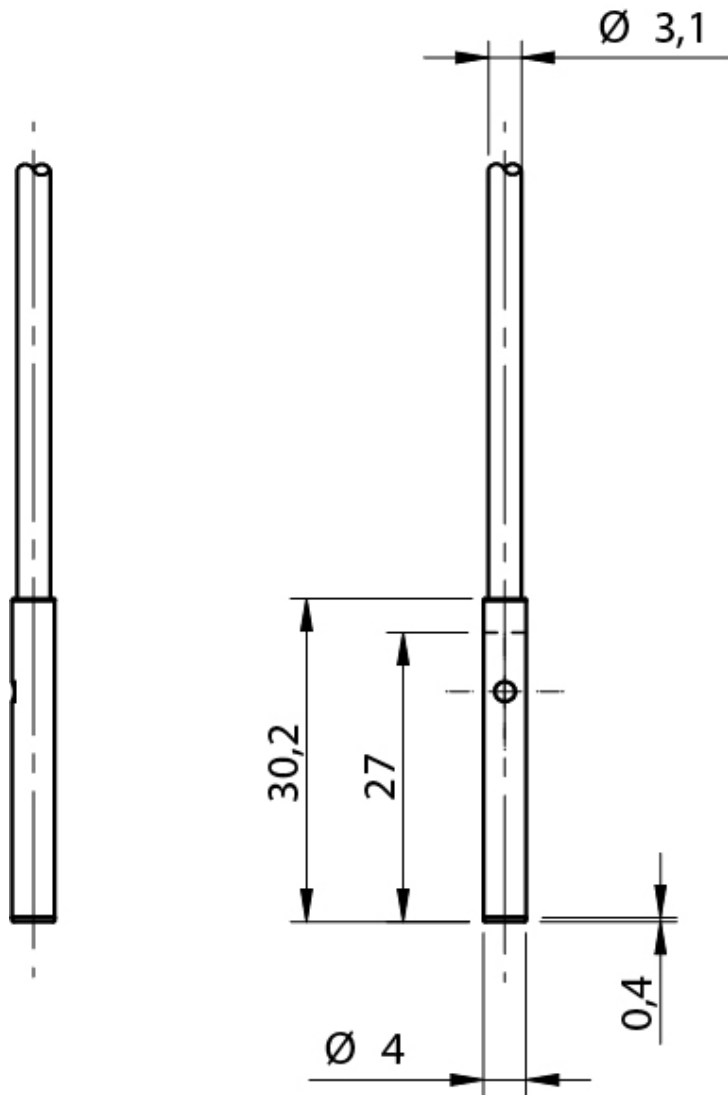
# CONNECTIONS

Electrical diagram

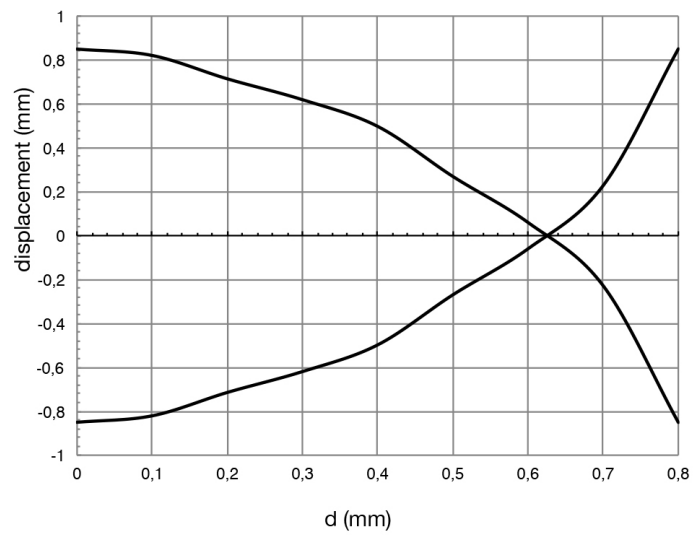


# OTHERS

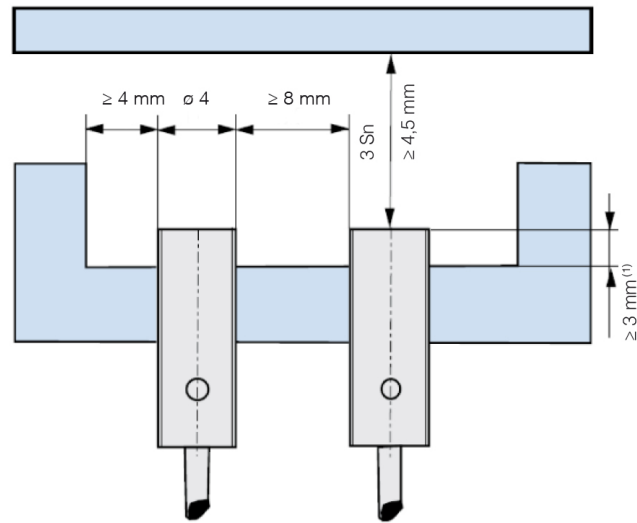
Dimensions



Response curves



## Installation



<sup>(1)</sup>  $\geq 4$  mm without ferro-magnetic material

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