

AC1



AC1/AP-3A

Ind.d4,PNP-NO,Cable,Sch-LD
Ø 4 MM CYLINDRICAL MINIATURIZED
INDUCTIVE SENSORS

OVERVIEW

- Smooth stainless steel housing
- ~ 4 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	0,66 ÷ 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)
Hysteresis	1 â€ 20%

Application

Description	Ø4 standard flush mount
Functions	Proximity

Outputs

Output type	PNP
Output Function	NO
Switching frequency	5kHz

Electrical data

Operating Voltage	10...30Vdc
No-Load supply current	â‰‰ 10mA
Load current	â‰‰ 100mA
Leakage current	â‰‰ 10Î¼A
Output voltage drop	â‰‰ 1,5V @100mA
Max ripple content	â‰‰ 10%
LED indicators	Yellow LED output state

Time delay before availability	â‰¤ 50ms
Short-circuit protection	Yes
Reverse Polarity Protection	Yes
Impulsive Overvoltage Protection	Yes
Protection against inductive loads	Yes

Mechanical data

Mounting	Shielded
Dimensions	Ø4 / L = 30,2mm
Weight	30g
Housing Material	AISI303 Stainless Steel
Connections	2m PVC Cable
Active Head Material	PBT
Operating temperature	-25°Câ€¦+70°C
Material	AISI303 Stainless Steel
Diameter/Dimension	Ø4

Test/Approvals

Approvals	CE cULus
EMC compatibility	IEC 60947-5-2

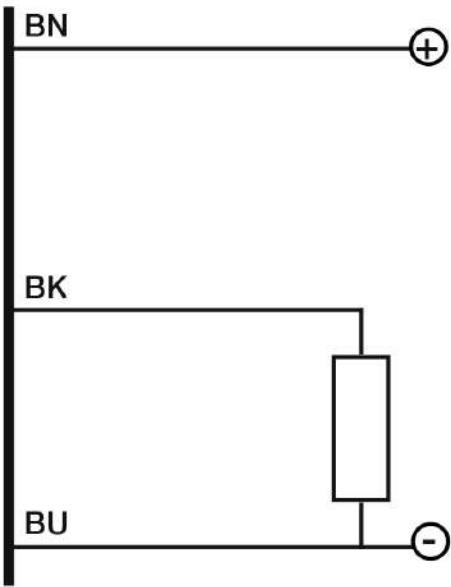
Shocks and vibrations	Vibration IEC 60068-2-6 / Shock IEC 60068-2-27
Degree of protection	IP67

Generical Data

Dimensions	Ø4 / L = 30,2mm
Operating Temperature	-25°Câ€¦+70°C
Mechanical Protection	IP67

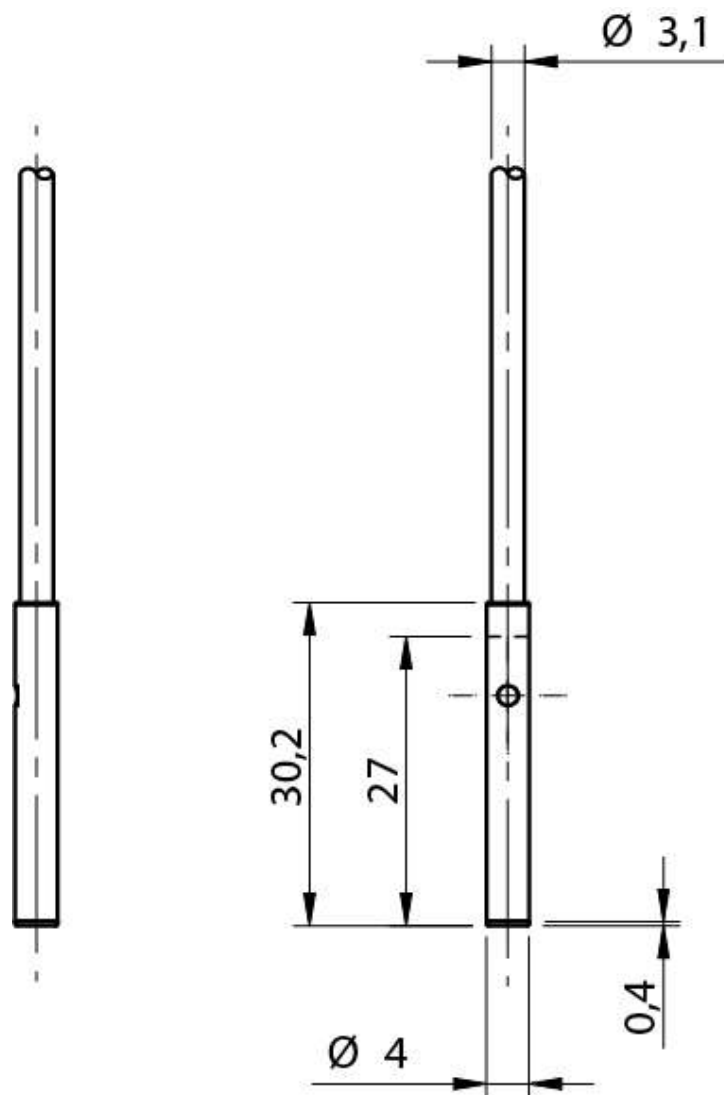
CONNECTIONS

Eletrical diagram

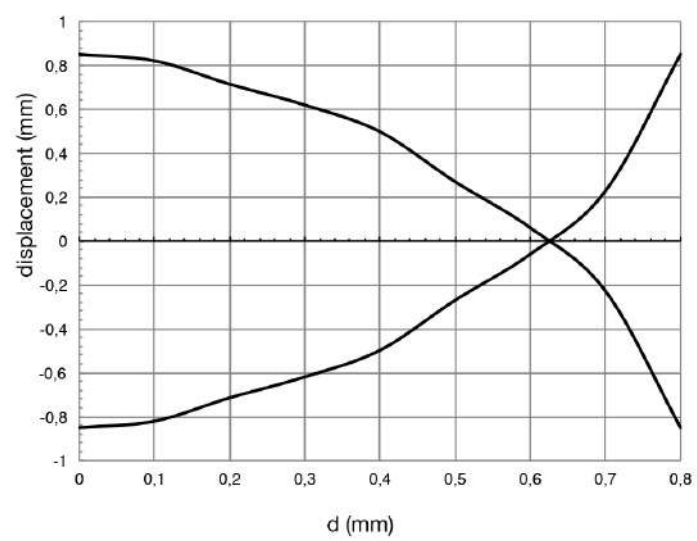


OTHERS

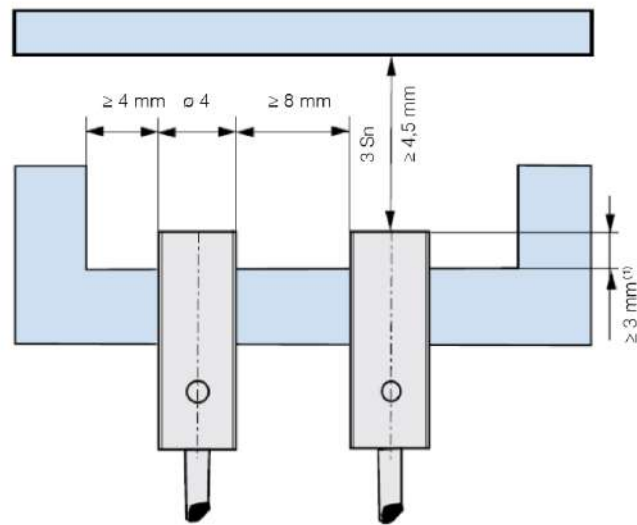
Dimensions



Response curves



Installation



⁽¹⁾ ≥ 4 mm without ferro-magnetic material

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