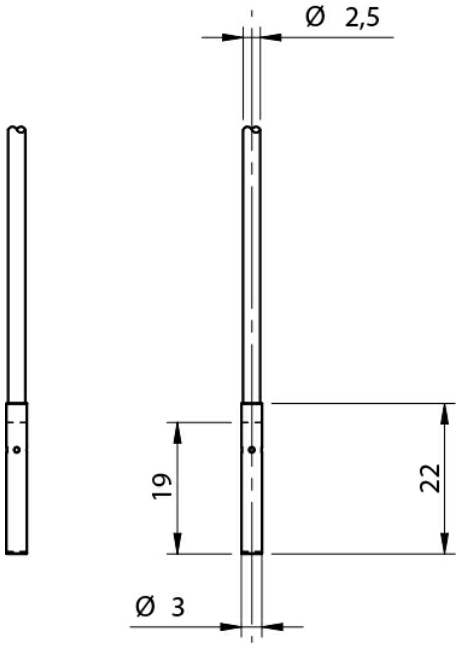
AA1/AP-1A

miniaturized cylindrical inductive

Micro Detectors
Italian Sensors Technology

Indicative image



Detection properties

Nominal sensing distance	0,6mm
Operanting distance	0...0,48mm
Standard target	4x4mm FE360
Correction Factor	copper: 0,32 ± 10% / aluminium: 0,24 ± 10% / brass: 0,39 ± 10% / stainless steel: 0,57 ± 10%
Thermal drift of Sr	< 10%
Repeat Accuracy	5% (UB 24V Ta=23°C ±5°C)
Hysteresis	1 ... 20%

Outputs

Output type	PNP
Output Function	NO
Switching frequency	3kHz

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 (auto-reset)
Reverse Polarity Protection	Yes
Protection against inductive loads	Yes

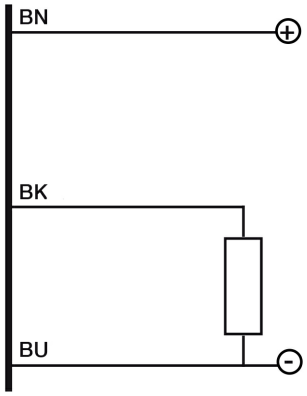
Mechanical data

Mounting	Shielded
Dimensions	Ø3 / L = 22mm
Weight	30g
Housing Material	AISI 303 Stainless Steel
Connections	2m PUR Cable
Active Head Material	PBT
Operating temperature	-25°C...+70°C
Diameter/Dimension	Ø3

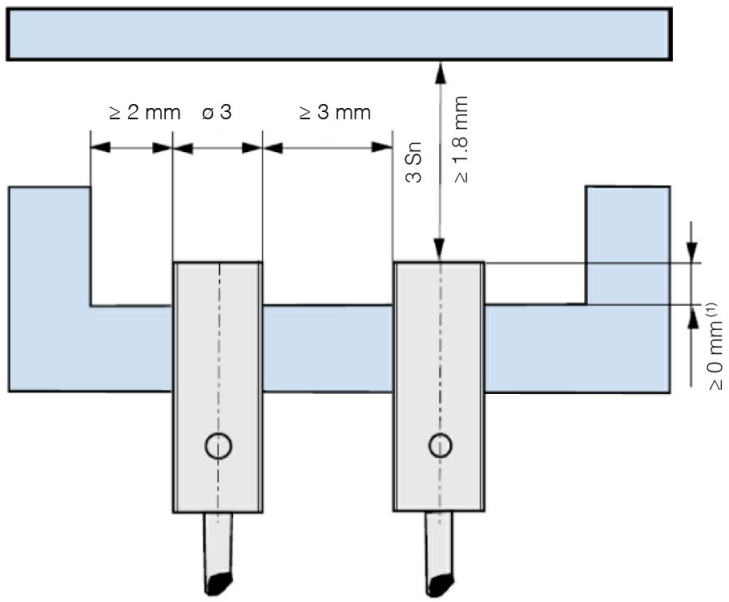
Test/Approvals

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

ELECTRICAL DIAGRAMS OF THE CONNECTIONS



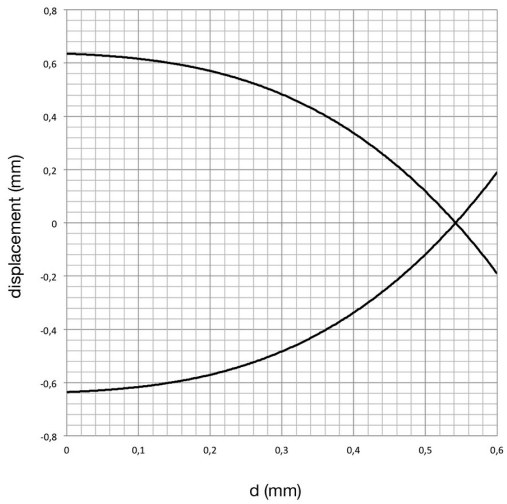
INSTALLATION



(1) ≥ 3 mm without ferro-magnetic material

RESPONSE CURVES

Disassamento Parallelo



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