

# AD1/AP-3A

miniaturized cylindrical inductive

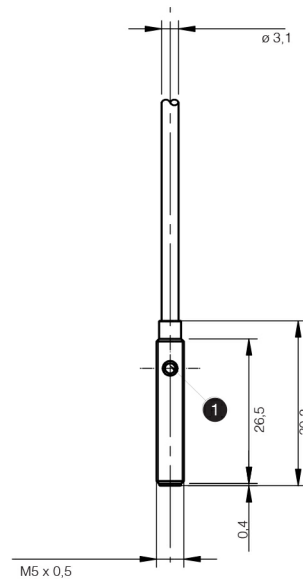


Micro Detectors

Italian Sensors Technology



Indicative image



1 LED

## Detection properties

Nominal sensing distance	1,5mm
Operanting distance	0...1,21mm
Standard target	4x4mm FE360
Correction Factor	copper: 0,33 ± 10% / aluminium: 0,27 ± 10% / brass: 0,34 ± 10% / stainless steel: 0,66 ± 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	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 (auto-reset)
Reverse Polarity Protection	Yes
Protection against inductive loads	Yes

## Mechanical data

Dimensions	M5 x 0,5 / L = 30,2mm
Mounting	Shielded
Weight	30g
Housing Material	stainless steel AISI303
Connections	2m PVC Cable
Active Head Material	PBT
Tightening torque	2Nm
Operating temperature	-25°C...+70°C

## 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	IP 67 (EN60529)

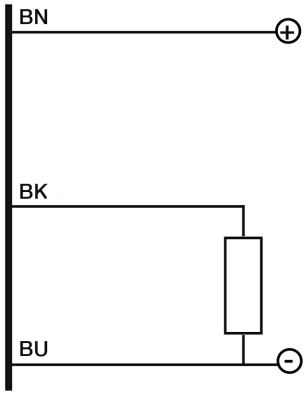
## Accessories

Supplied Accessories	2 nuts M5x0,5
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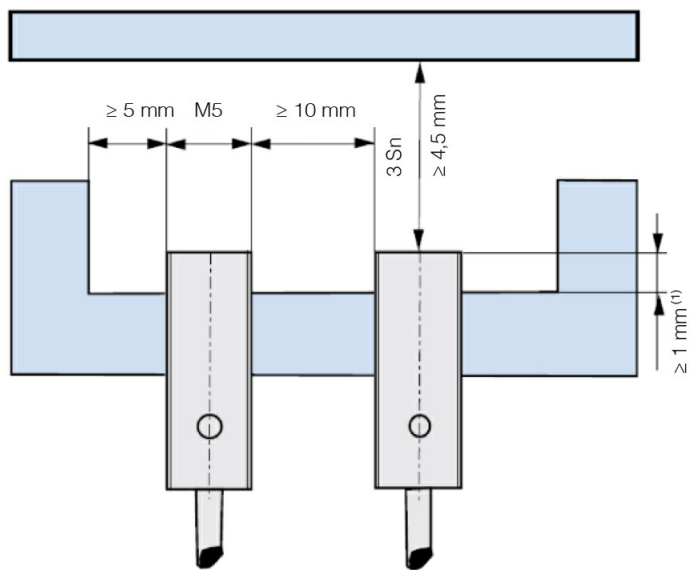
# ELECTRICAL DIAGRAMS OF THE CONNECTIONS

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## INSTALLATION

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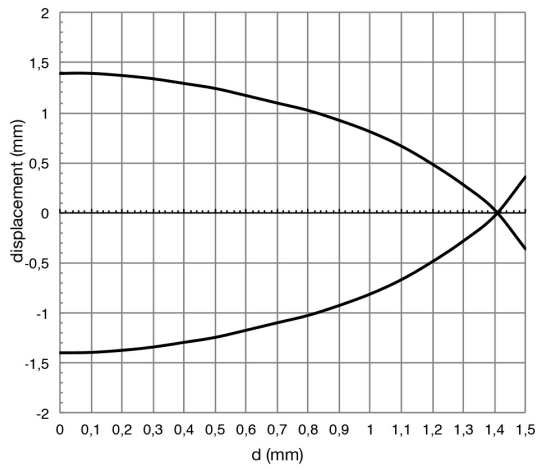


<sup>(1)</sup>  $\geq 2 \text{ mm}$  without ferro-magnetic material

## RESPONSE CURVES

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Disassamento Parallelo



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