

AES/AP-3F

miniaturized cylindrical inductive

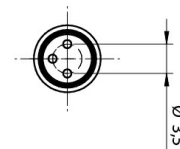
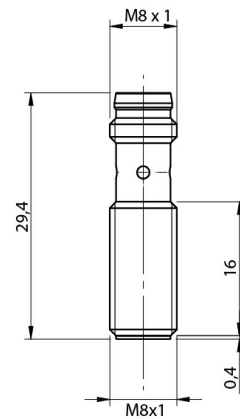


Micro Detectors

Italian Sensors Technology



Indicative image



Detection properties

Nominal sensing distance	1,5mm
Operanting distance	0...1,21mm
Standard target	6,5x6,5mm FE360
Correction Factor	copper: $0,15 \pm 10\%$ / aluminium: $0,15 \pm 10\%$ / brass: $0,21 \pm 10\%$ / stainless steel: $0,56 \pm 10\%$
Thermal drift of Sr	< 10%
Repeat Accuracy	5% (UB 24V Ta=23°C $\pm 5^\circ\text{C}$)
Hysteresis	1 ... 20%

Outputs

Output type	PNP
Output Function	NO
Switching frequency	7kHz

Electrical data

Operating Voltage	10 - 30Vdc
No-Load supply current	$\leq 10\text{mA}$
Load current	$\leq 100\text{mA}$
Leakage current	$\leq 10\mu\text{A}$

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	M8 x 1 / L = 29,4mm
Mounting	Shielded
Weight	4g
Housing Material	stainless steel AISI303
Connections	M8 Plug
Active Head Material	PBT
Tightening torque	5Nm
Operating temperature	-25°C...+70°C

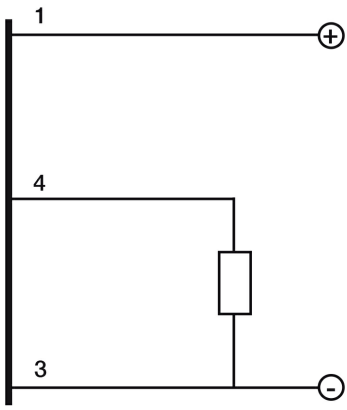
Test/Approvals

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 M8x1
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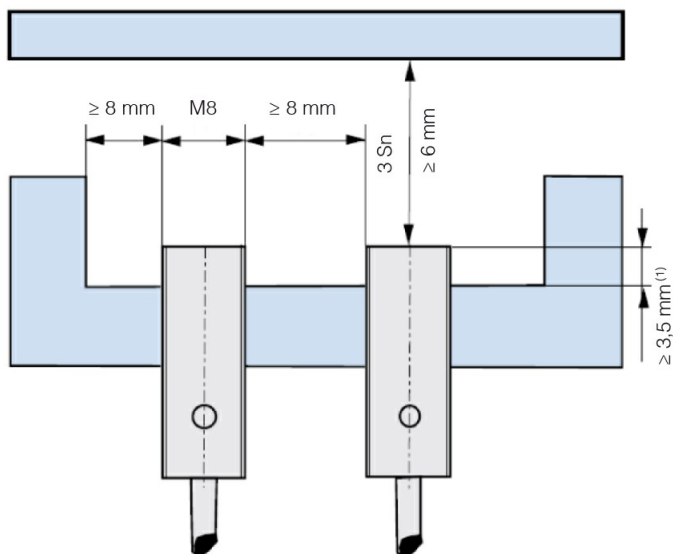
ELECTRICAL DIAGRAMS OF THE CONNECTIONS



CONNECTOR



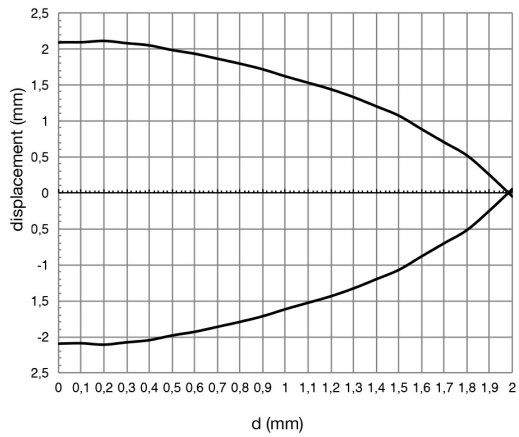
INSTALLATION



⁽¹⁾ ≥ 4 mm without ferro-magnetic material

RESPONSE CURVES

Disassamento Parallelo



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