

AH1/AP-2F

Ind. d6,5, PNP-N0, M8 plug, Nsch-STD Inductive sensor Ø6,5
mm unshielded N0/PNP plug M8
Ø 6.5 MM CYLINDRICAL INDUCTIVE SENSORS



OVERVIEW

- Extremely reduced dimensions
- Metal housing (stainless steel)
- LED status indicator 360° visible
- IP 67 protection degree
- ATEX models, cat. 3, available on request
- Complete protection against electrical damages
- Standard and long distance models
- Standard and short body housing

TECHNICAL FEATURES

Detection properties

Nominal sensing distance	2,5mm
Operanting distance	0...2,02mm
Standard target	8x8mm FE360
Correction Factor	copper: 0,39 / aluminium: 0,45 / brass: 0,54 / stainless steel: 0,81
Thermal drift of Sr	< 10%
Repeat Accuracy	< 5% (UB 24V Ta=23°C ±5°C)
Hysteresis	1 ... 20%

Application

Description	Ø6,5 standard no- ush mount
Functions	Proximity

Outputs

Output type PNP

Output Function NO

Switching frequency 5kHz

Electrical data

Operating Voltage 10...30Vdc

No-Load supply current $\leq 10\text{mA}$

Load current $\leq 200\text{mA}$

Leakage current $\leq 10\mu\text{A}$

Output voltage drop $\leq 1,8\text{V @}200\text{mA}$

Max ripple content $\leq 10\%$

LED indicators Yellow LED output state

Time delay before availability $\leq 50\text{ms}$

Short-circuit protection Yes

Reverse Polarity Protection Yes

Impulsive Overvoltage Protection Yes

Protection against inductive loads Yes

Mechanical data

Mounting	Unshielded
Dimensions	Ø6,5 / L = 50mm
Weight	5g
Housing Material	AISI303 Stainless Steel
Connections	M8 Plug
Active Head Material	PBT
Operating temperature	-25°C...+70°C
Material	AISI303 Stainless Steel
Diameter/Dimension	Ø6,5

Test/Approvals

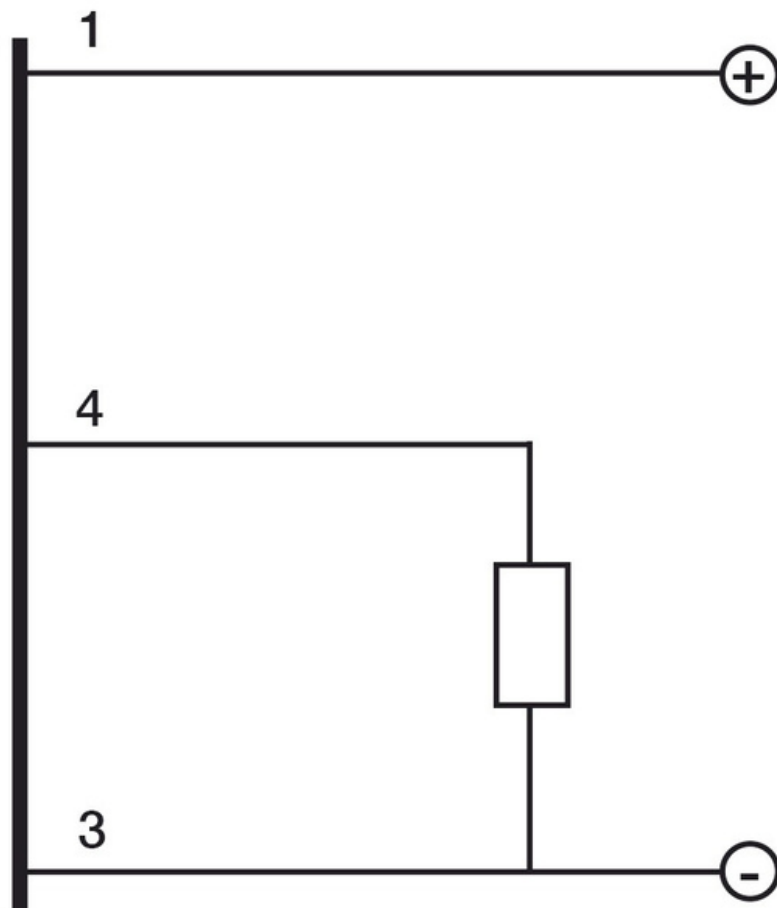
Approvals	CE UR
EMC compatibility	IEC 60947-5-2
Shocks and vibrations	Vibration IEC 60068-2-6 / Shock IEC 60068-2-27
Degree of protection	IP67

Generical Data

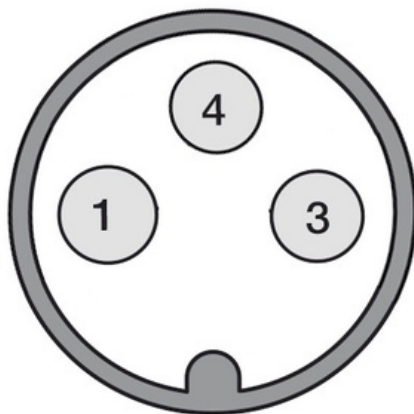
Dimensions	Ø6,5 / L = 50mm
Operating Temperature	-25°C...+70°C
Mechanical Protection	IP67

CONNECTIONS

Electrical diagram

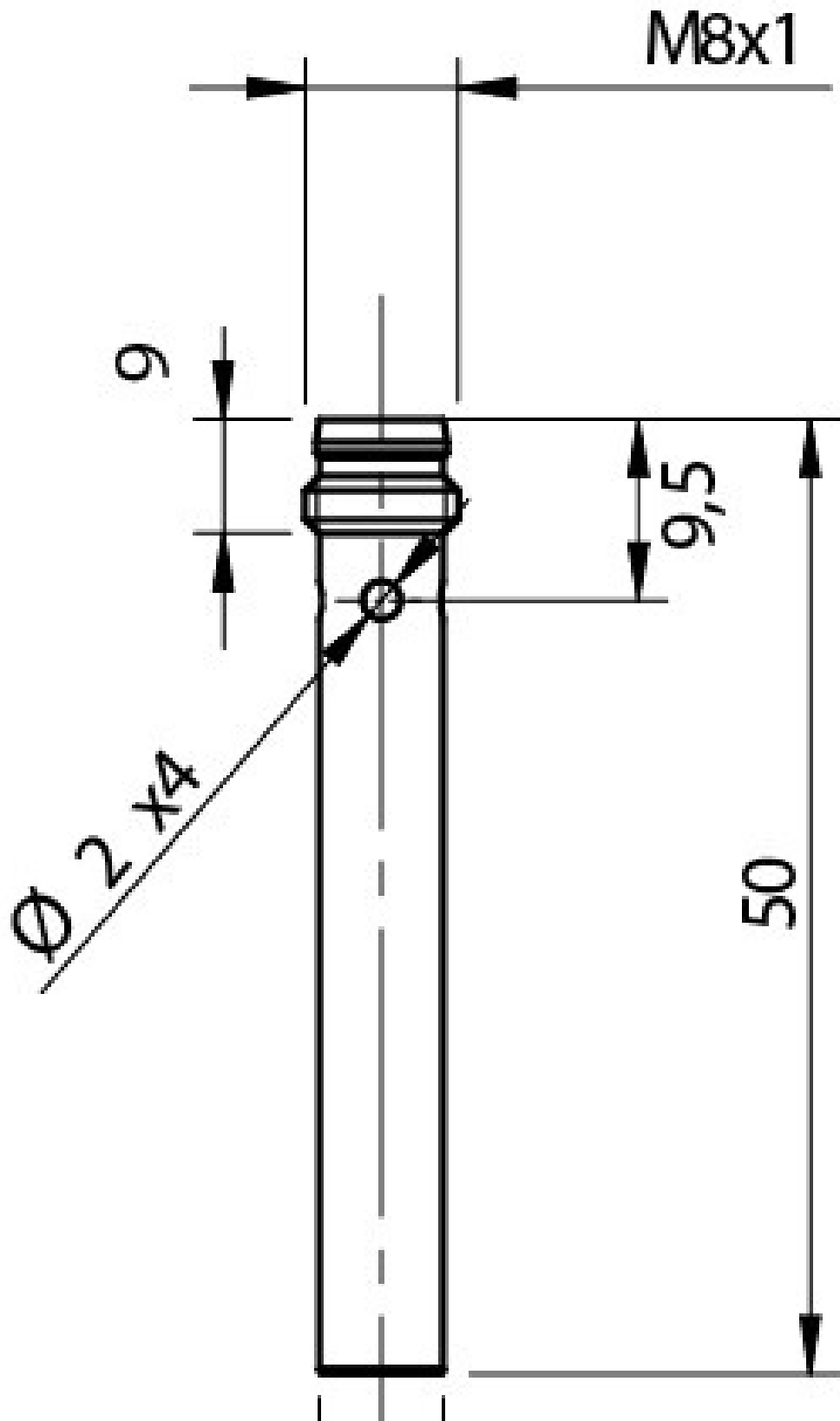


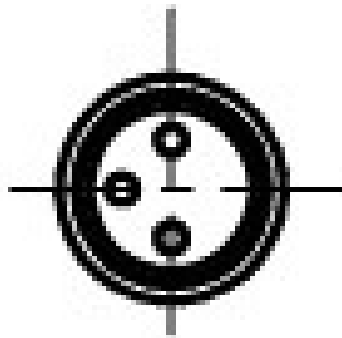
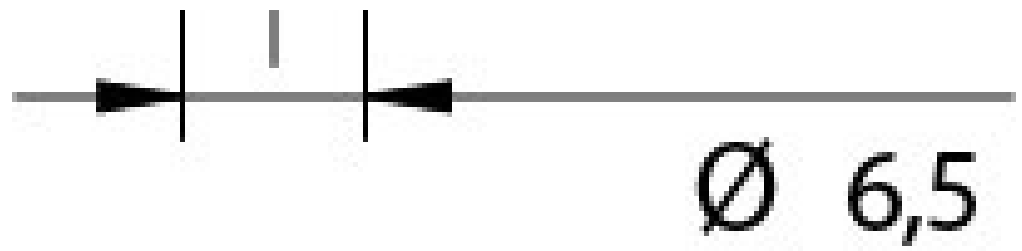
Connector



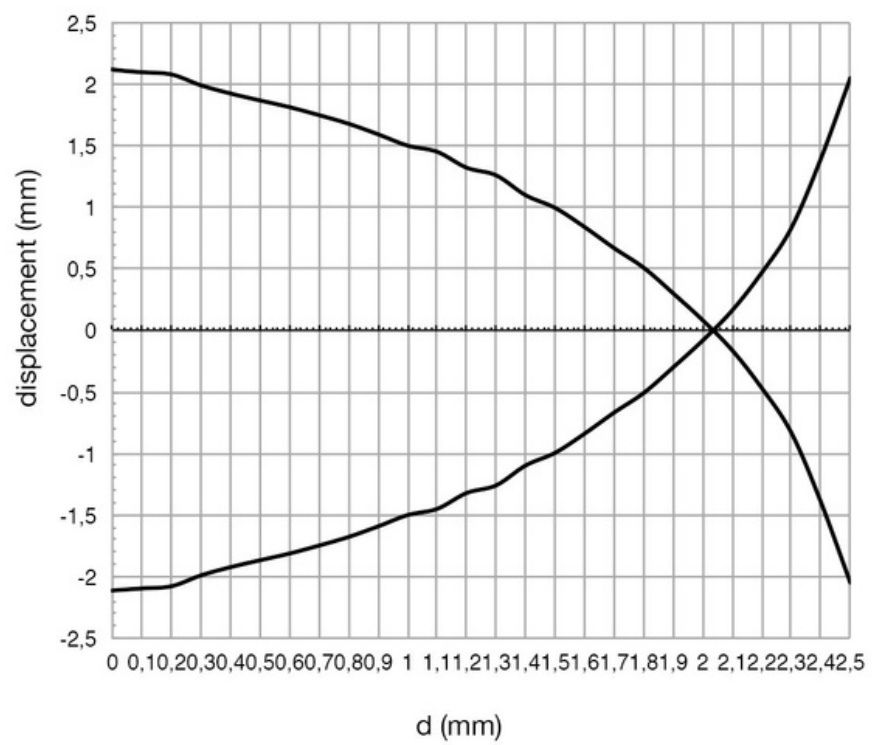
OTHERS

Dimensions

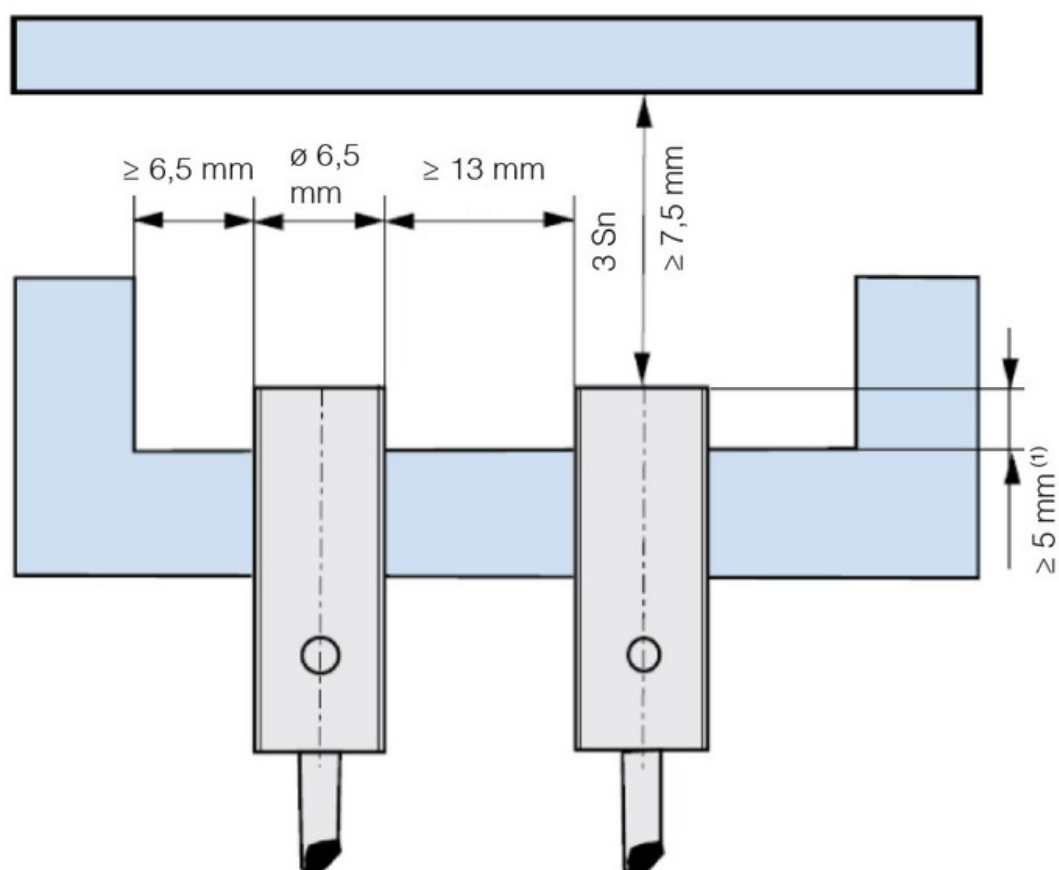




Response curves



Installation



⁽¹⁾ $\geq 2,6 \text{ mm}$ for non magnetic materials