



AH

AH1/AP-1A

Ind.d6,5,PNP-NO,Cable,Sch-STD
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	1,5mm
Operanting distance	0...1,21mm
Standard target	8x8mm FE360
Correction Factor	copper: 0,06 / aluminium: 0,13 / brass: 0,24 / stainless steel: 0,56

Thermal drift of Sr	< 10%
Repeat Accuracy	< 5% (UB 24V Ta=23°C ±5°C)
Hysteresis	1 ... 20%

Application

Description	Ø6,5 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	≤ 10mA
Load current	≤ 200mA
Leakage current	≤ 10µA
Output voltage drop	≤ 1,8V @200mA
Max ripple content	≤ 10%
LED indicators	Yellow LED output state
Time delay before availability	≤ 50ms

Short-circuit protection	Yes
Reverse Polarity Protection	Yes
Impulsive Overvoltage Protection	Yes
Protection against inductive loads	Yes

Mechanical data

Dimensions	Ø6,5 / L = 45,5mm
Mounting	Shielded
Material	AISI303 Stainless Steel
Housing material	AISI303 Stainless Steel
Weight	35g
Connections	2m PVC Cable
Active Head Material	PBT
Operating temperature	-25°C...+70°C
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

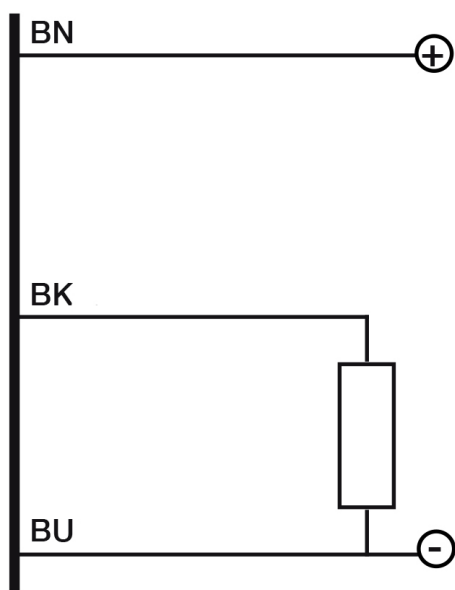
Dimensions	Ø6,5 / L = 45,5mm
------------	-------------------

Operating Temperature	-25°C...+70°C
-----------------------	---------------

Mechanical Protection	IP67
-----------------------	------

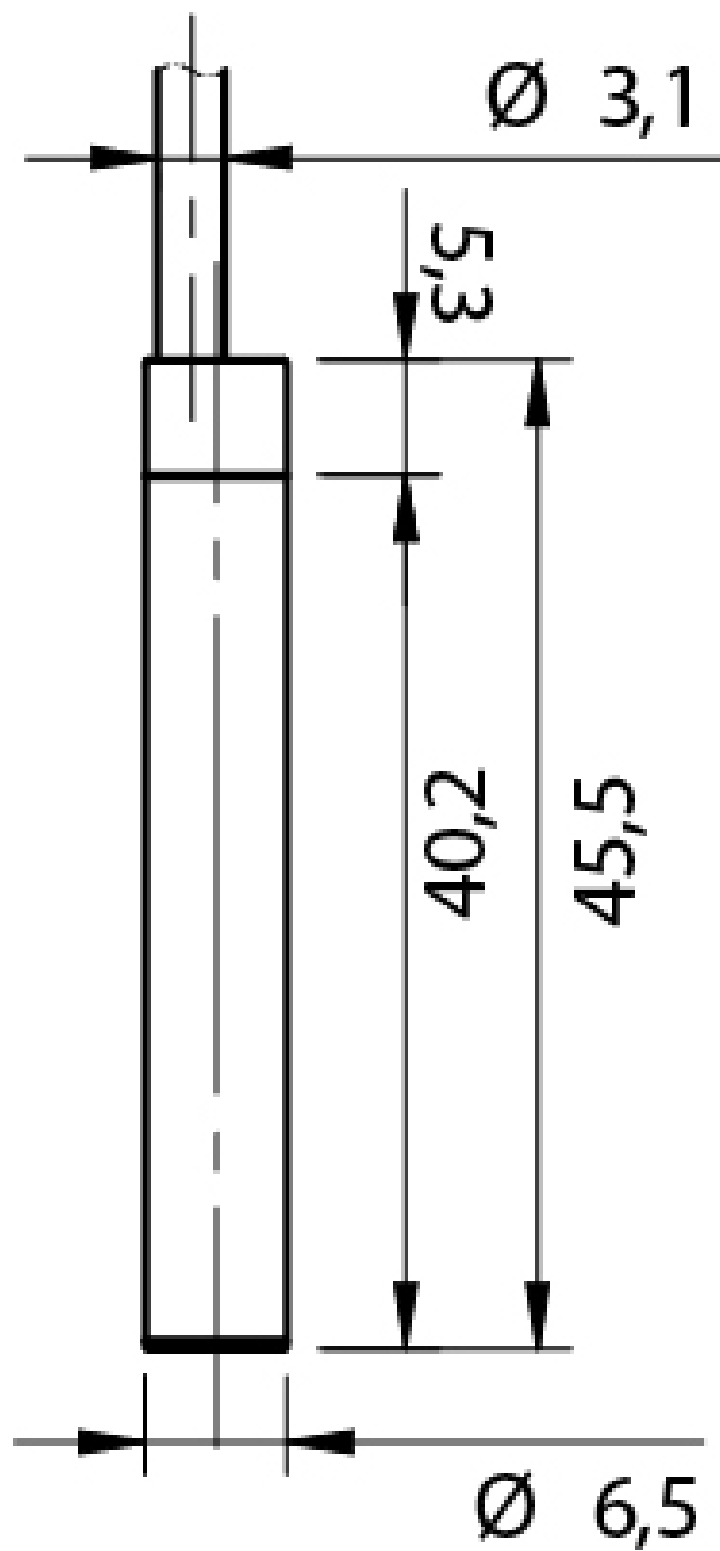
CONNECTIONS

Eletrical diagram

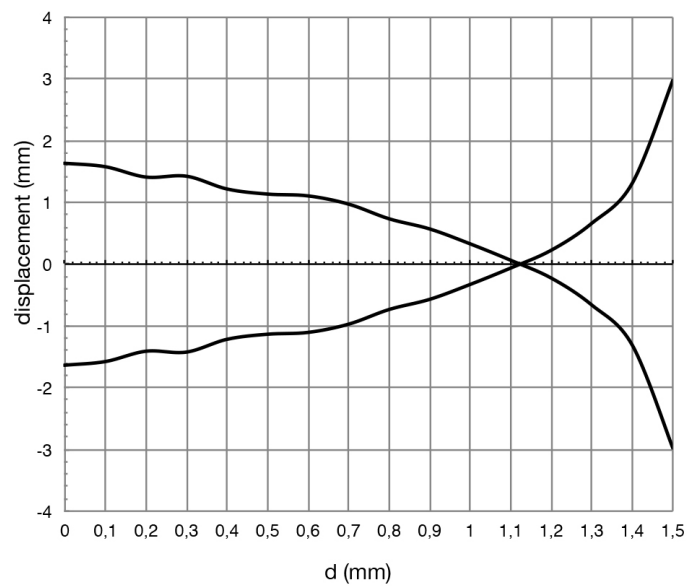


OTHERS

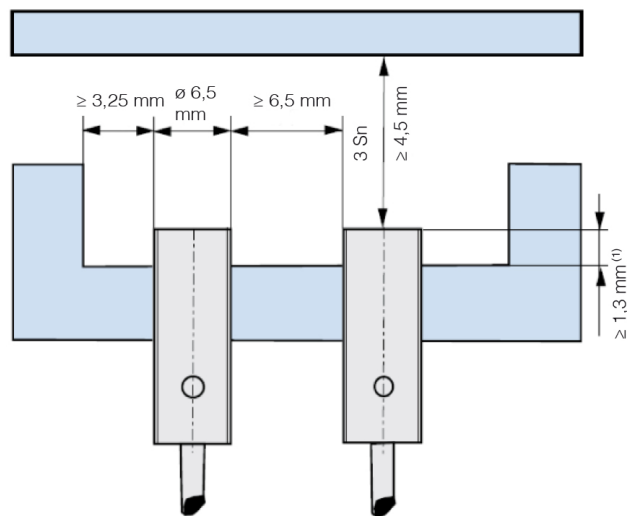
Dimensions



Response curves



Installation



⁽¹⁾ ≥ 2,6 mm for non magnetic materials

Datasensing S.r.l.

Strada S.Caterina, 235
41122 Modena (MO)
Tel. 059 420411
Fax 059 253973
E-mail
info@datasensing.com

**date of
printing**
08/08/2026
13:44:24