

AD1

AD1/AP-1A

Ind.M5,PNP-NO,Cable,Sch-STD

M5 CYLINDRICAL MINIATURIZED INDUCTIVE SENSORS

OVERVIEW

- Extremely reduced models: M5 x 30 mm (cable) / 38 mm (plug) lenght
- Operating voltage: 10...30 Vcc
- Output current: 100 mA
- LED output indicator
- Totally protected against electrical damages
- Cable and M8 plug output
- Stainless steel housing

TECHNICAL FEATURES

Detection properties

Nominal sensing distance	0,8mm
Operanting distance	0…0,65mm
Standard target	5x5mm FE360
Correction Factor	copper: 0,32 ± 10% / aluminium: 0,26 ± 10% / brass: 0,35 ± 10% / stainless steel: 0,66 ± 10%

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

Application

Description	M5 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	≤ 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
Reverse Polarity Protection	Yes
Impulsive Overvoltage Protection	Yes
Protection against inductive loads	Yes

Mechanical data

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

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	IP67

Accessories

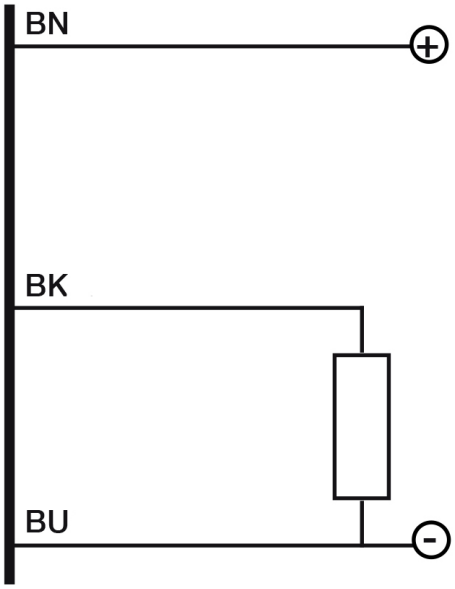
Supplied Accessories	2 nuts M5x0.5

Generical Data

Dimensions	M5 x 0,5 / L = 30,2mm
Operating Temperature	-25°C…+70°C
Mechanical Protection	IP67

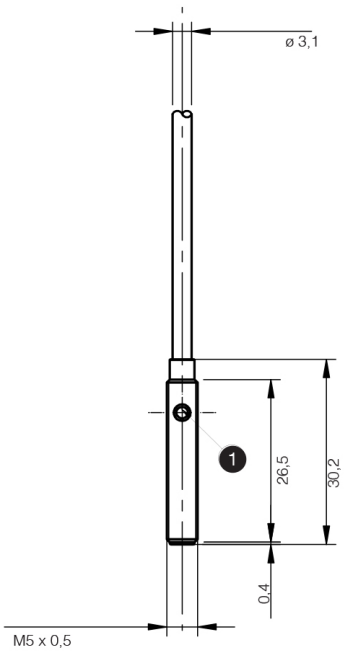
CONNECTIONS

Eletrical diagram



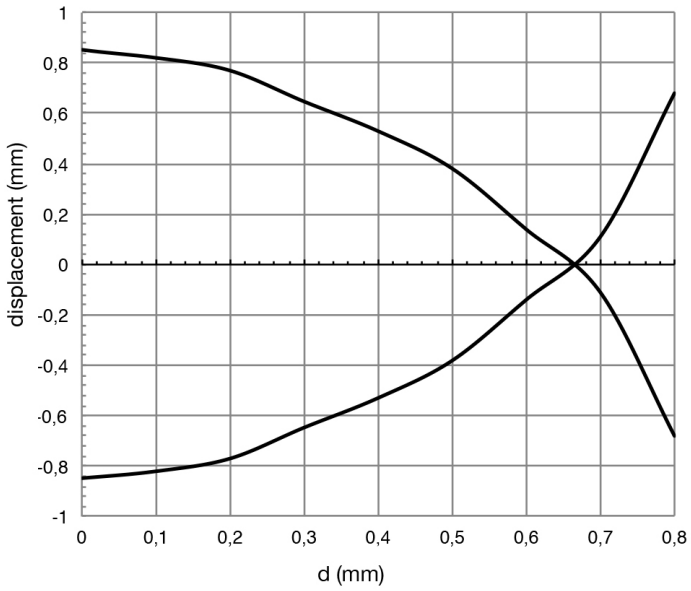
OTHERS

Dimensions

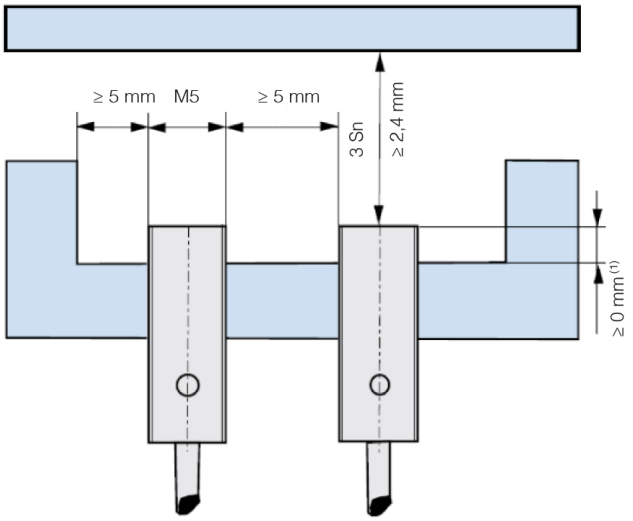


1 LED

Response curves



Installation



(1) ≥ 1 mm without ferro-magnetic material

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