

AK

AK1/AP-1A

Ind.M18,PNP-NO,Cable,Sch-STD

M18 CYLINDRICAL INDUCTIVE SENSORS

OVERVIEW

- Wide range of models: standard, long distance
- Output: cable, M12 and plug cable exit
- Models with 2, 3, and 4 wires
- ATEX models, cat. 3, available on request
- Models with complementary output (NO+NC)

TECHNICAL FEATURES

Detection properties

Nominal sensing distance	5mm
Operanting distance	0…4,05mm
Standard target	18x18mm FE360
Correction Factor	copper: 0,40 / aluminium: 0,48 / brass: 0,50 / stainless steel: 0,86
Thermal drift of Sr	< 10%

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

Application

Description	M18 standard flush mount
Functions	Proximity

Outputs

Output type	PNP
Output Function	NO
Switching frequency	600Hz

Electrical data

Operating Voltage	10...30Vdc
No-Load supply current	≤ 20mA
Load current	≤ 400mA
Leakage current	≤ 10μA
Output voltage drop	≤ 1V @400mA
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	M18 x 1 / L = 50mm
Mounting	Shielded
Material	Nickel-plated brass
Housing material	Nickel-plated brass
Weight	130g
Connections	2m PVC Cable
Active Head Material	PBT
Tightening torque	25Nm
Operating temperature	-25°C…+70°C
Diameter/Dimension	M18

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

Accessories

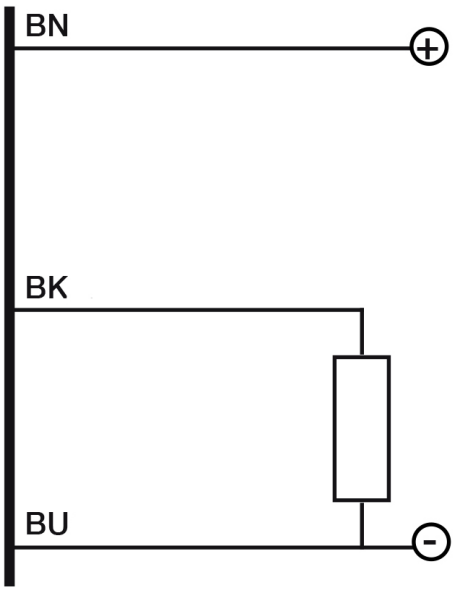
Supplied Accessories	2 nuts M18x1

Generical Data

Dimensions	M18 x 1 / L = 50mm
Operating Temperature	-25°C…+70°C
Mechanical Protection	IP67

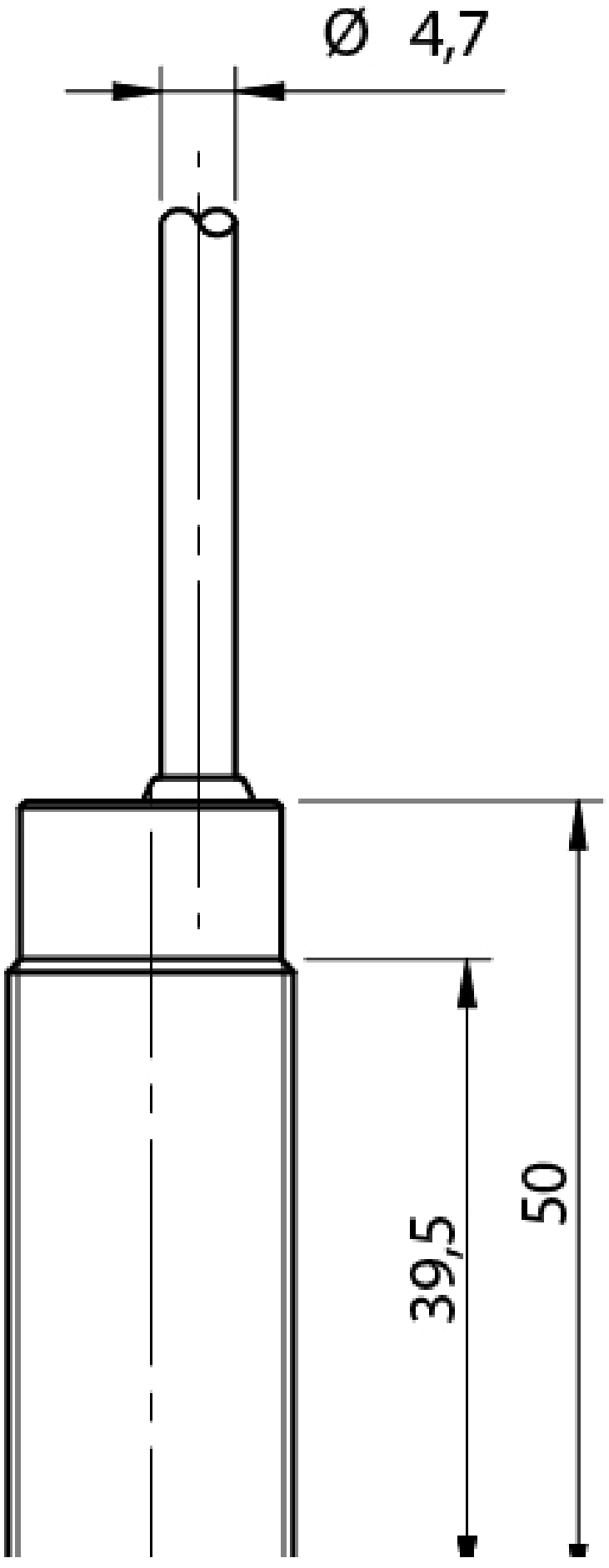
CONNECTIONS

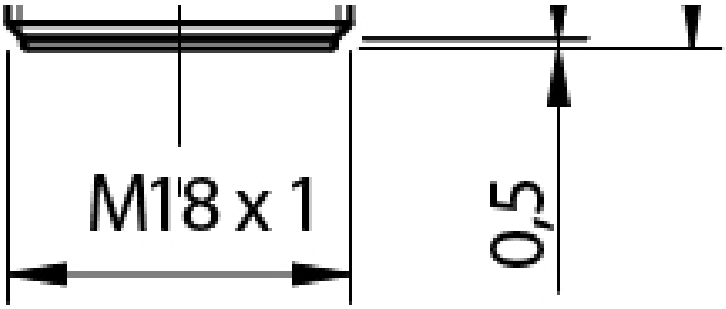
Eletrical diagram



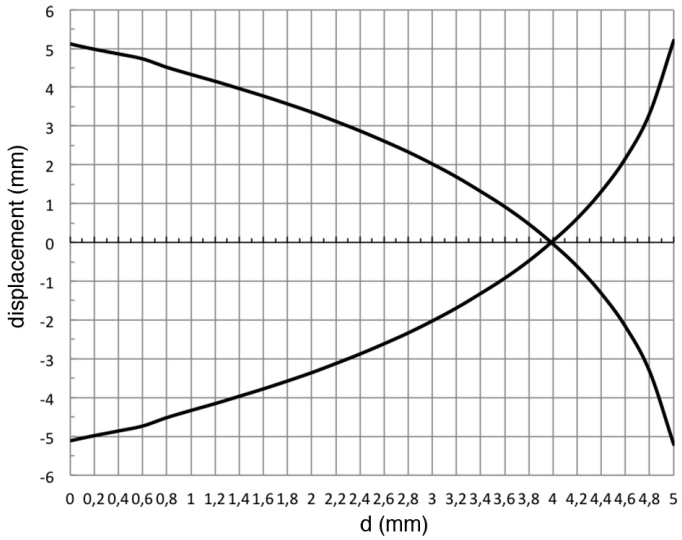
OTHERS

Dimensions

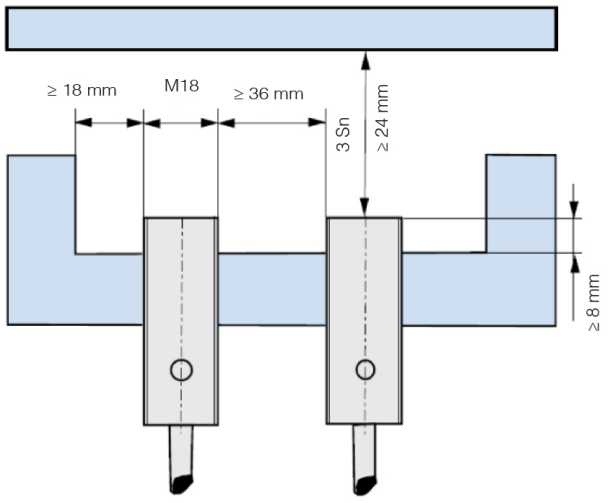

Ø 4,7
39,5
50



Response curves



Installation



(1) ≥ 3,6 mm for non magnetic materials

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