



# AK

## AK1/AN-3A

Ind.M18,NPN-NO,Cable,Sch-LD  
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	8mm
Operanting distance	0...6,48mm
Standard target	24x24mm FE360
Correction Factor	copper: 0,40 / aluminium: 0,45 / brass: 0,50 / stainless steel: 0,75
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	NPN
Output Function	NO
Switching frequency	300Hz

### 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

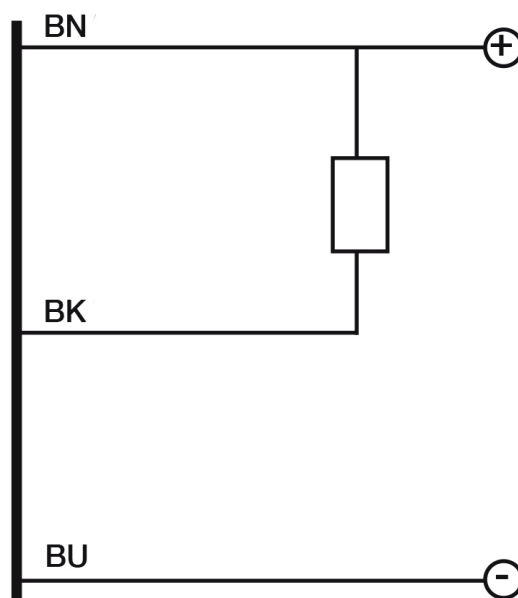
-25°C...+70°C

Mechanical Protection

IP67

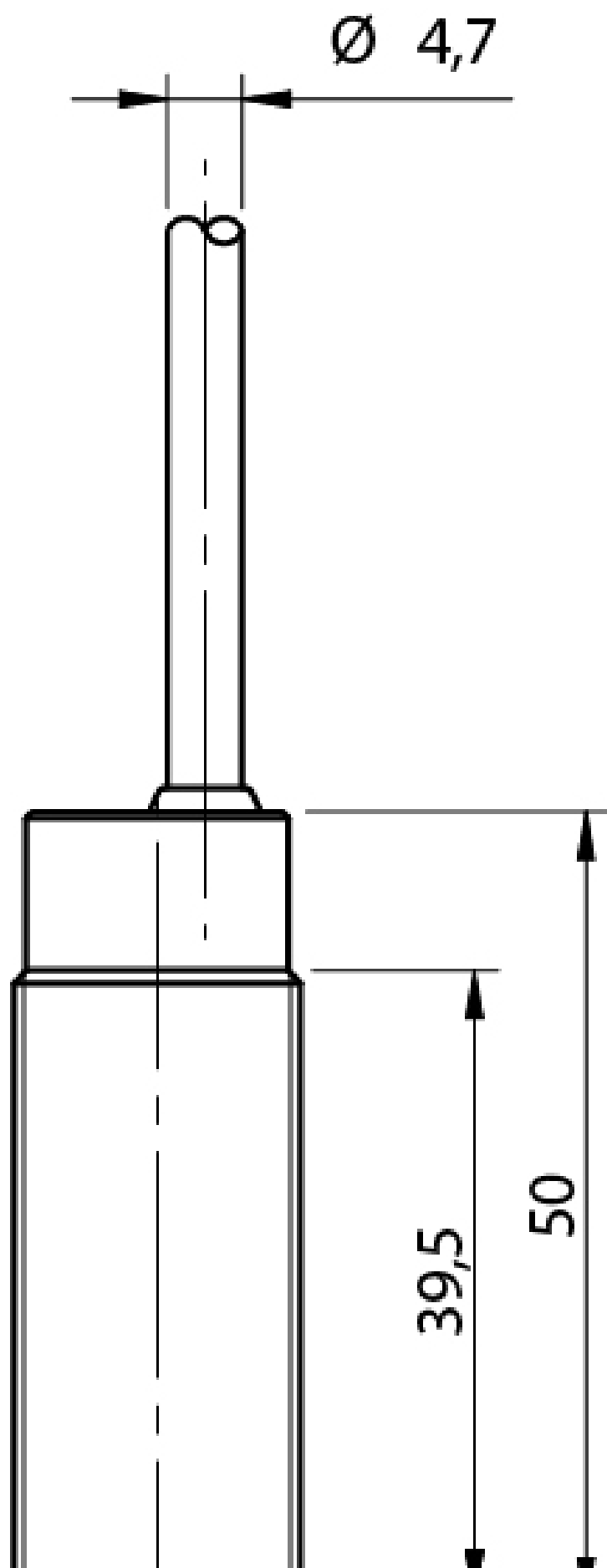
## CONNECTIONS

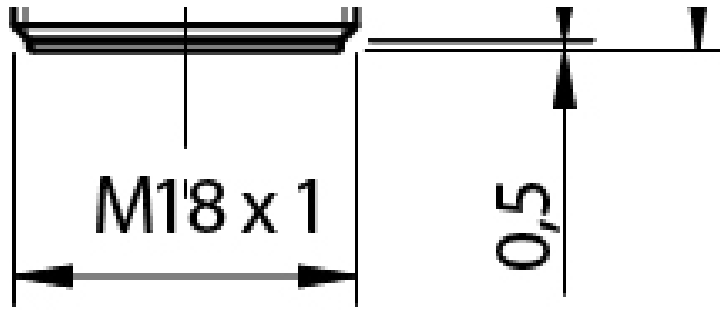
Electrical diagram



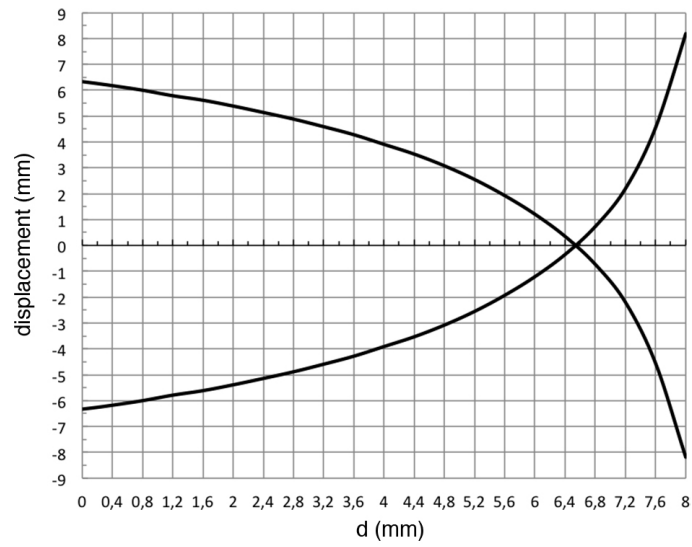
## OTHERS

Dimensions

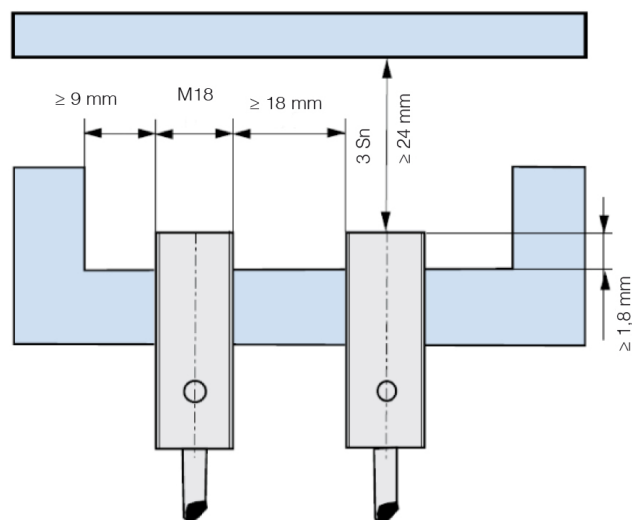




Response curves



Installation



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