



# AK

## AK1/A0-2H

Ind.M18,2 wires DC-NO,M12  
Plug,Nsch-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	8mm
Operanting distance	0...6,48mm
Standard target	24x24mm FE360
Correction Factor	copper: 0,45 / aluminium: 0,53 / brass: 0,56 / stainless steel: 0,77
Thermal drift of Sr	< 10%

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

Description	M18 standard no-flush mount
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Functions	Proximity
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### Outputs

Output type	NPN/PNP
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Output Function	NO
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Switching frequency	300Hz
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### Electrical data

Operating Voltage	10...30Vdc
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No-Load supply current	≤ 20mA
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Load current	3...100mA
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Leakage current	≤ 0, ≤ 8mA
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Output voltage drop	≤ 2,8V @100mA
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Max ripple content	≤ 10%
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LED indicators	Yellow LED output state
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Time delay before availability	≤ 50ms
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Short-circuit protection	Yes
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Reverse Polarity Protection	Yes
Impulsive Overvoltage Protection	Yes
Protection against inductive loads	Yes

#### Mechanical data

Dimensions	M18 x 1 / L = 64mm
Mounting	Unshielded
Material	Nickel-plated brass
Housing material	Nickel-plated brass
Weight	55g
Connections	M12 Plug
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
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#### Accessories

Supplied Accessories	2 nuts M18x1
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#### Generical Data

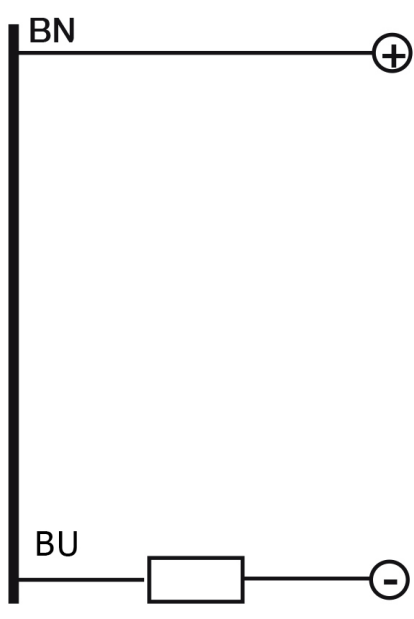
Dimensions	M18 x 1 / L = 64mm
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Operating Temperature	-25°C...+70°C
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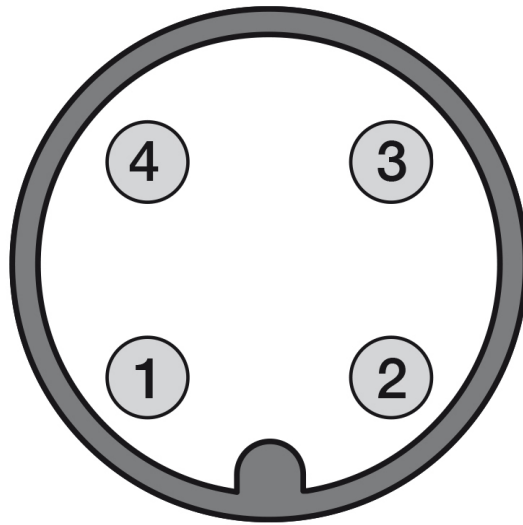
Mechanical Protection	IP67
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## CONNECTIONS

Electrical diagram

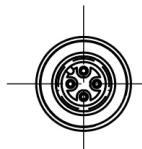
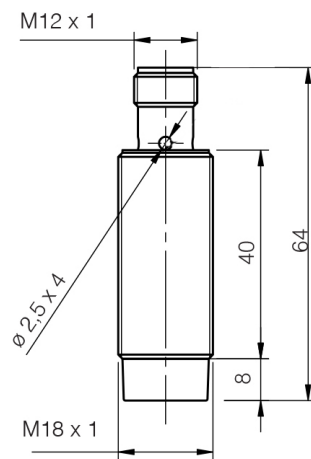


Connector

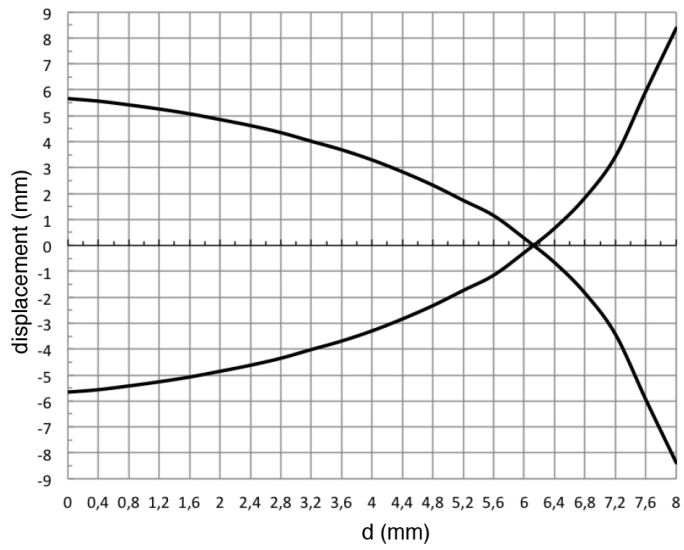


## OTHERS

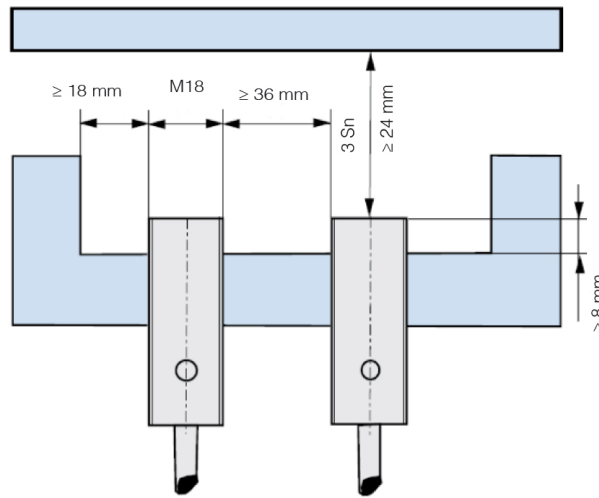
### Dimensions



### Response curves



### Installation



<sup>(1)</sup> ≥ 3,6 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

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