



AK

AK1/AP-2H

**Ind.M18,PNP-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	0â€¦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)
Hysteresis	1 %± 20%

Application

Description	M18 standard no-flush mount
Functions	Proximity

Outputs

Output type	PNP
Output Function	NO
Switching frequency	600Hz

Electrical data

Operating Voltage	10...30Vdc
No-Load supply current	â‰‰± 20mA
Load current	â‰‰± 400mA
Leakage current	â‰‰± 10¼A
Output voltage drop	â‰‰± 1V @400mA
Max ripple content	â‰‰± 10%
LED indicators	Yellow LED output state
Time delay before availability	â‰‰± 50ms

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

Mechanical data

Mounting	Unshielded
Dimensions	M18 x 1 / L = 64mm
Weight	55g
Housing Material	Nickel-plated brass
Connections	M12 Plug
Active Head Material	PBT
Tightening torque	25Nm
Operating temperature	-25°Câ€¦+70°C
Material	Nickel-plated brass
Diameter/Dimension	M18

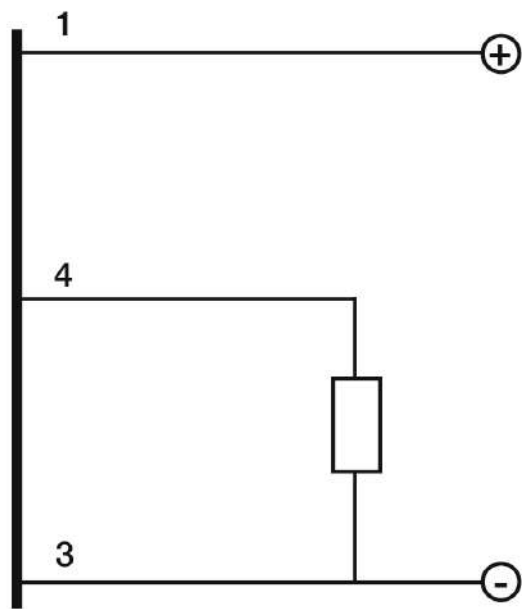
Test/Approvals

Approvals	CE UR
EMC compatibility	IEC 60947-5-2
Shocks and vibrations	Vibration IEC 60068-2-6 / Shock IEC 60068-2-27

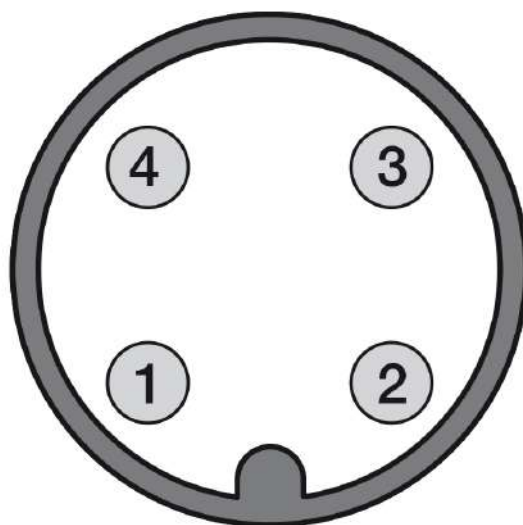
Degree of protection	IP67
Accessories	
Supplied Accessories	2 nuts M18x1
Generical Data	
Dimensions	M18 x 1 / L = 64mm
Operating Temperature	-25°Câ€¦+70°C
Mechanical Protection	IP67

CONNECTIONS

Eletrical diagram

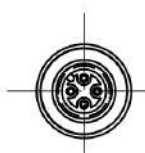
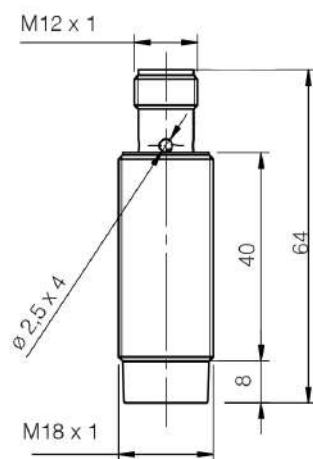


Connector

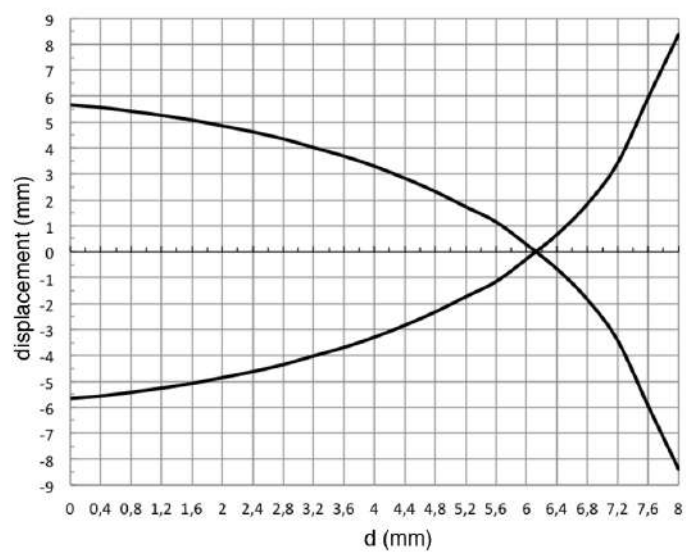


OTHERS

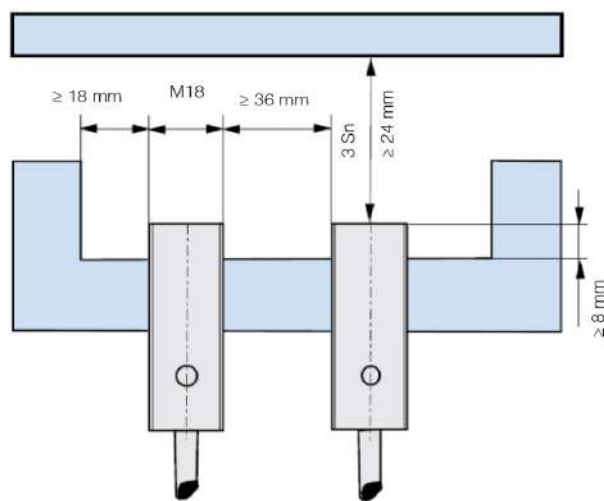
Dimensions



Response curves



Installation



⁽¹⁾ $\geq 3,6$ mm for non magnetic materials

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