



AK

AK1/A0-1A

Ind.M18,2 wires DC-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	NPN/PNP
Output Function	NO
Switching frequency	300Hz
Electrical data	
Operating Voltage	10...30Vdc
No-Load supply current	≤ 20mA
Load current	3...100mA
Leakage current	≤ 0, ≤ 8mA
Output voltage drop	≤ 2,8V @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	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

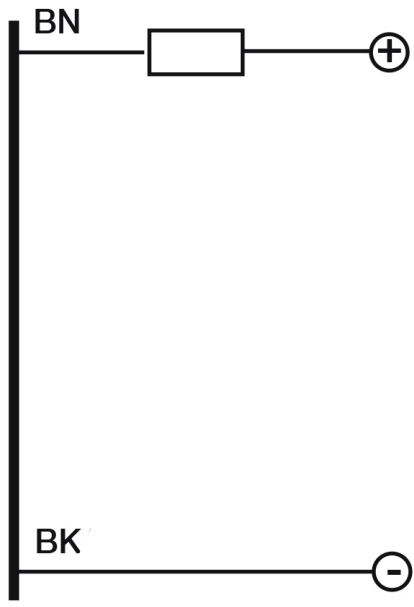
Dimensions	M18 x 1 / L = 50mm
------------	--------------------

Operating Temperature	-25°C...+70°C
-----------------------	---------------

Mechanical Protection	IP67
-----------------------	------

CONNECTIONS

Electrical diagram

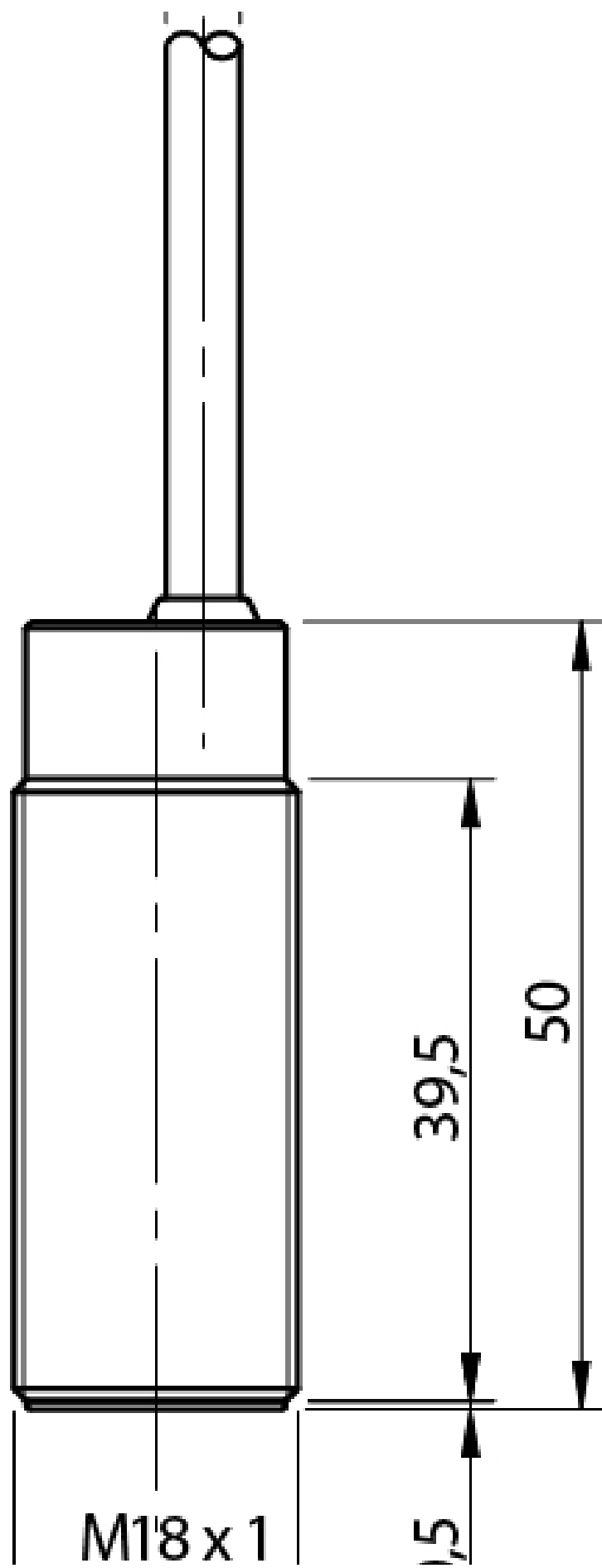


OTHERS

Dimensions

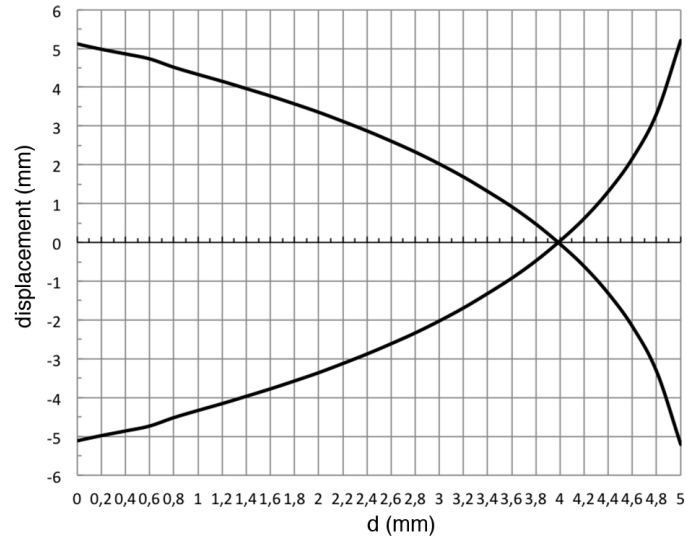
\varnothing 4,7



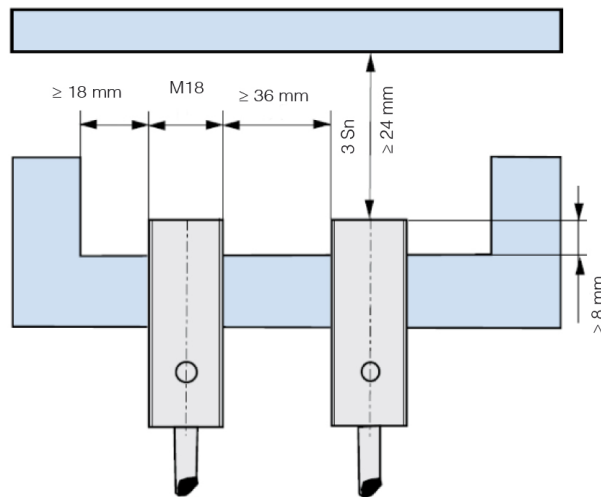




Response curves



Installation



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

Datasensing S.r.l.

Strada S.Caterina, 235
41122 Modena (MO)
Tel. 059 420411
Fax 059 253973

date of
printing
13/06/2026
13:49:48

E-mail
info@datasensing.com