



AK

AK1/AP-1H

Ind.M18,PNP-NO,M12 plug,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

Mounting	Shielded
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°C...+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

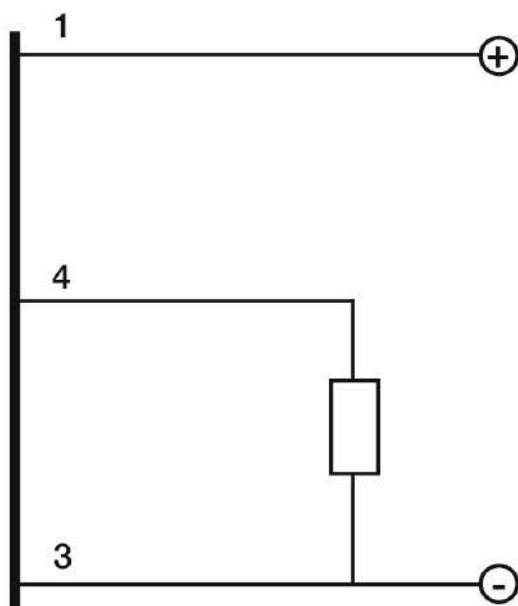
-25°C...+70°C

Mechanical Protection

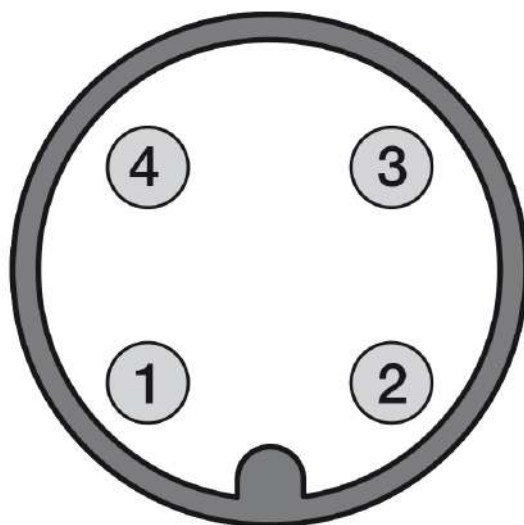
IP67

CONNECTIONS

Eletrical diagram

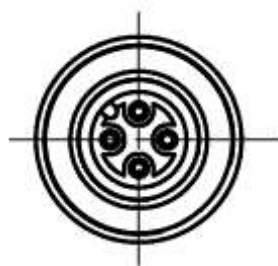
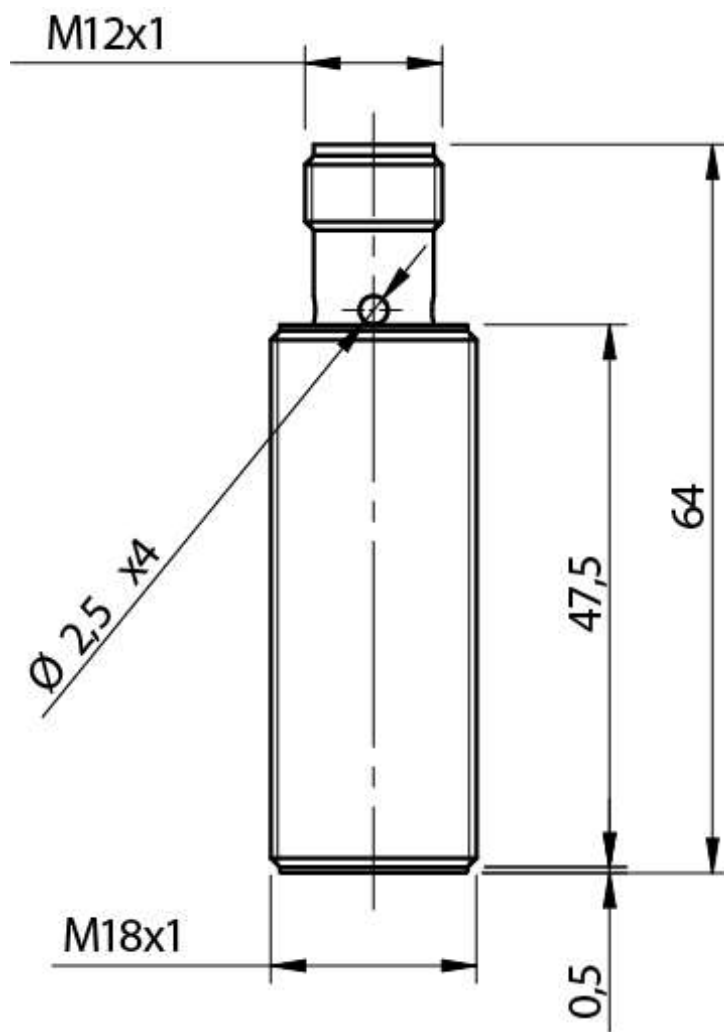


Connector

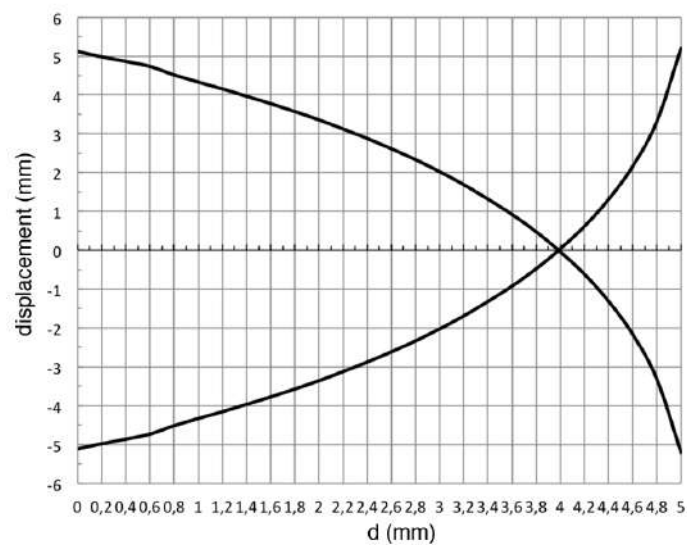


OTHERS

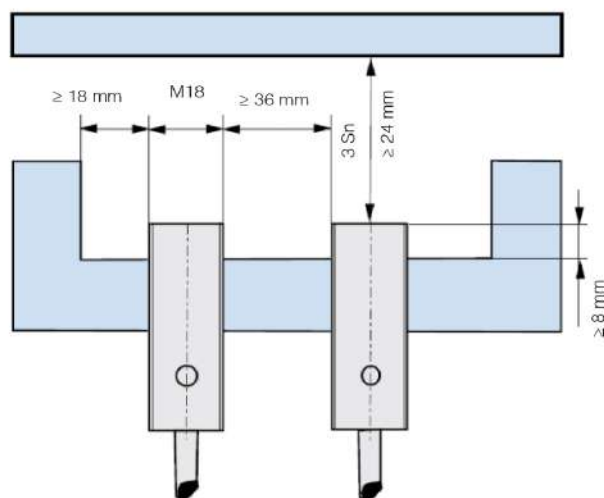
Dimensions



Response curves



Installation



⁽¹⁾ $\geq 3,6$ 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

**date of
printing**
02/07/2024
11:37:57