



AM

AM6/BN-1A

Ind.M12,NPN-NO+NC,Cable,Sch-STD
M12 CYLINDRICAL INDUCTIVE SENSORS

OVERVIEW

- Wide range of models: standard, short body, long distance
- Output: cable, M12 and M8 plug cable exit
- Models with 2, 3 wires
- ATEX models, cat. 3, available on request

TECHNICAL FEATURES

Detection properties

Nominal sensing distance	2mm
Operanting distance	0...1,62mm
Standard target	12x12mm FE360
Correction Factor	copper: 0,22 / aluminium: 0,31 / brass: 0,41 / stainless steel: 0,77
Thermal drift of Sr	< 10%
Repeat Accuracy	< 5% (UB 24V Ta=23°C ±5°C)
Hysteresis	1 ... 20%

Application	
Description	M12 short case flush mount
Functions	Proximity
Outputs	
Output type	NPN
Output Function	NO + NC
Switching frequency	2kHz
Electrical data	
Operating Voltage	10...30Vdc
No-Load supply current	≤ 10mA
Load current	≤ 200mA
Leakage current	≤ 10μA
Output voltage drop	≤ 1,8V @200mA
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	M12 x 1 / L = 39,8mm
Mounting	Shielded
Material	Nickel-plated brass
Housing material	Nickel-plated brass
Weight	60g
Connections	2m PVC Cable
Active Head Material	PBT
Tightening torque	10Nm
Operating temperature	-25°C...+70°C
Diameter/Dimension	M12

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 M12x1
----------------------	--------------

Generical Data

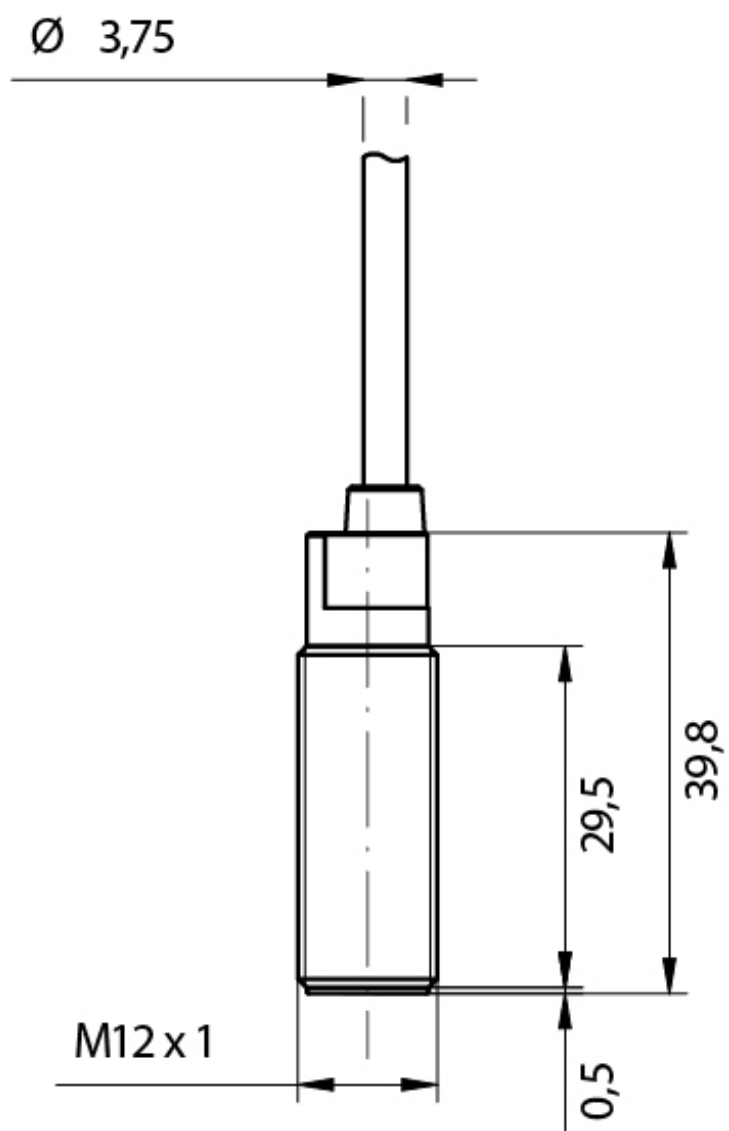
Dimensions	M12 x 1 / L = 39,8mm
------------	----------------------

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

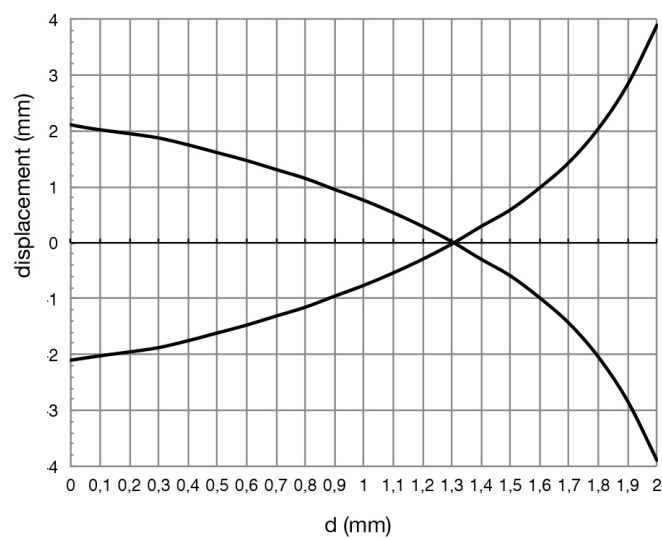
Mechanical Protection	IP67
-----------------------	------

OTHERS

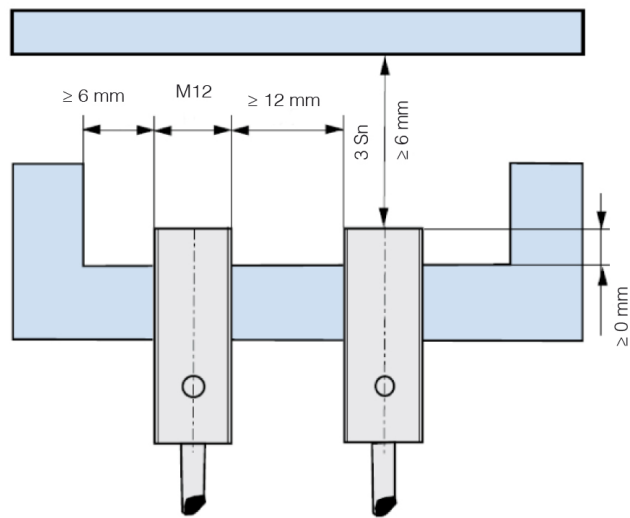
Dimensions



Response curves



Installation



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**
09/08/2026
23:47:17