



# AM

## AM1/A0-1A

Ind.M12,2 wires DC-NO,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
Operating distance	0...1,62mm
Standard target	12x12mm FE360
Correction Factor	copper: 0,3 / aluminium: 0,35 / brass: 0,5 / stainless steel: 0,8
Thermal drift of Sr	< 10%
Repeat Accuracy	< 5% (UB 24V Ta=23°C ±5°C)

Hysteresis	1 ... 20%
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## Application

Description	M12 standard 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	1,5kHz
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## Electrical data

Operating Voltage	10...30Vdc
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No-Load supply current	$\leq 10\text{mA}$
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Load current	3...100mA
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Leakage current	$\leq 0, \leq 8\text{mA}$
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Output voltage drop	$\leq 2,8\text{V @}100\text{mA}$
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Max ripple content	$\leq 10\%$
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LED indicators	Yellow LED output state
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Time delay before availability	$\leq 50\text{ms}$
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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

Mounting	Shielded
Dimensions	M12 x 1 / L = 60mm
Weight	70g
Housing Material	Nickel-plated brass
Connections	2m PVC Cable
Active Head Material	PBT
Tightening torque	10Nm
Operating temperature	-25°C...+70°C
Material	Nickel-plated brass
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
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## Generical Data

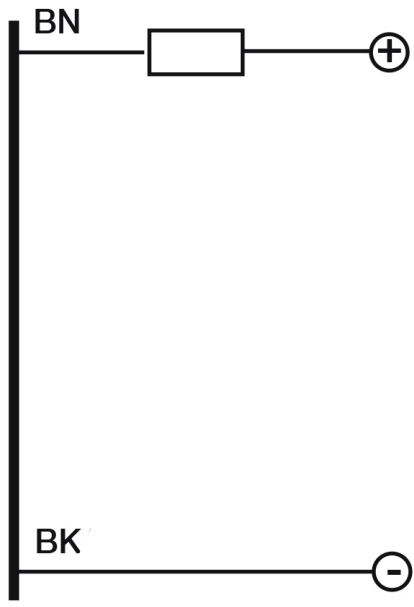
Dimensions	M12 x 1 / L = 60mm
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Operating Temperature	-25°C...+70°C
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Mechanical Protection	IP67
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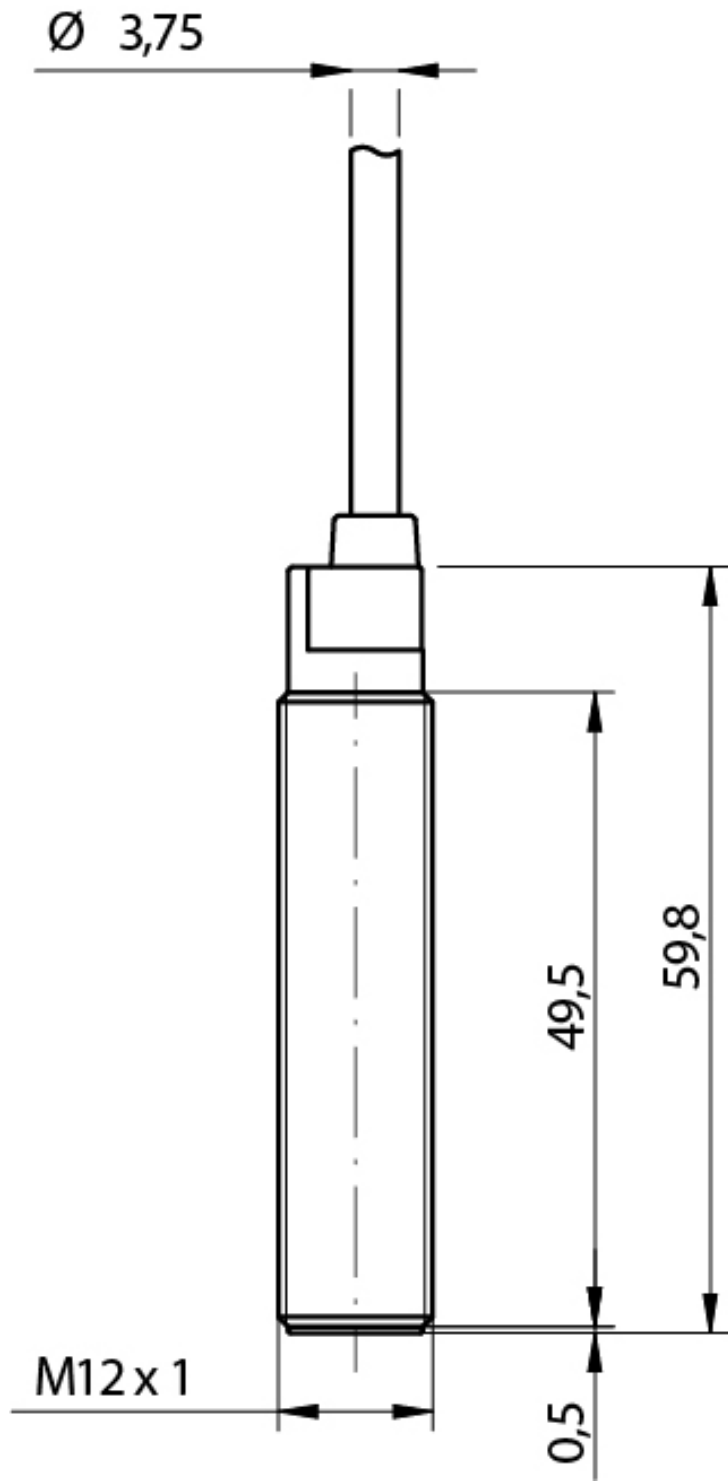
# CONNECTIONS

Electrical diagram

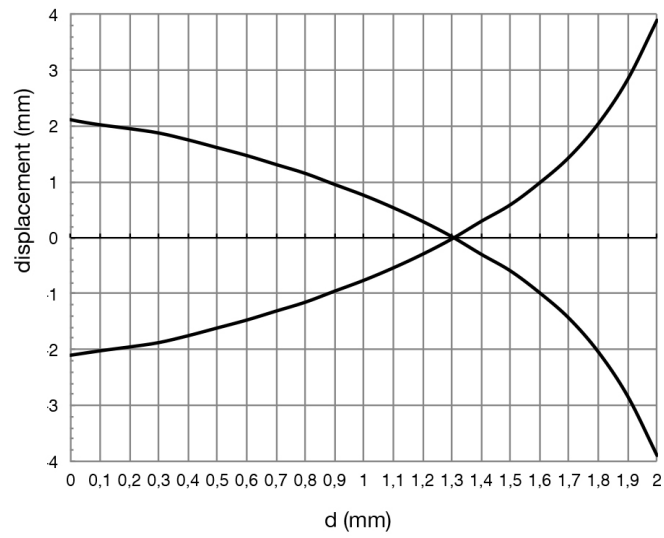


# OTHERS

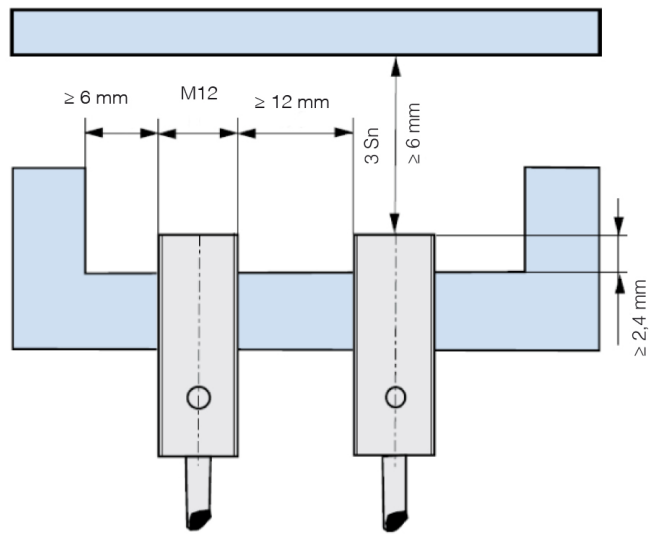
Dimensions



Response curves



### Installation



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