

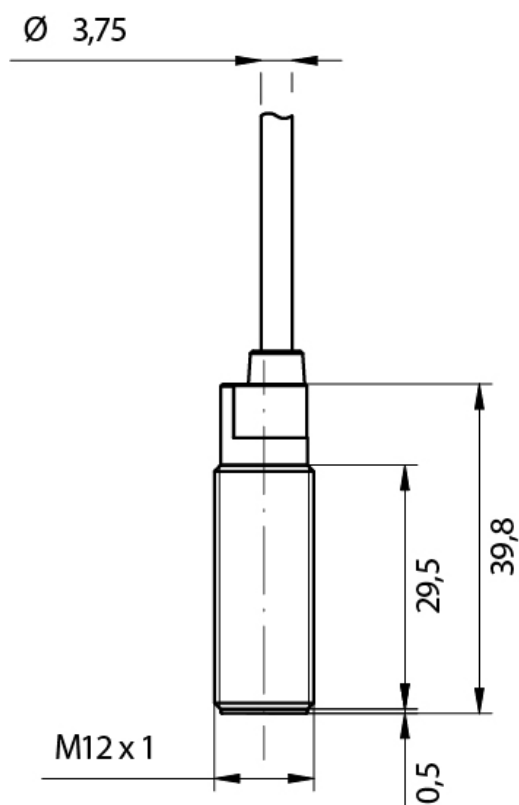
M12 CYLINDRICAL INDUCTIVE SENSORS



Indicative image



- 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



Detection properties

Nominal sensing distance	2mm
Operating 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	PNP
Output Function	NO
Switching frequency	2kHz

Electrical data

Operating Voltage	10...30Vdc
No-Load supply current	$\leq 10\text{mA}$
Load current	$\leq 200\text{mA}$
Leakage current	$\leq 10\mu\text{A}$
Output voltage drop	$\leq 1,8\text{V @}200\text{mA}$
Max ripple content	$\leq 10\%$
LED indicators	Yellow LED output state
Time delay before availability	$\leq 50\text{ms}$
Short-circuit protection	Yes
Reverse Polarity Protection	Yes
Impulsive Overvoltage Protection	Yes
Protection against inductive loads	Yes

Mechanical data

Mounting	Shielded
Dimensions	M12 x 1 / L = 39,8mm
Weight	60g
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

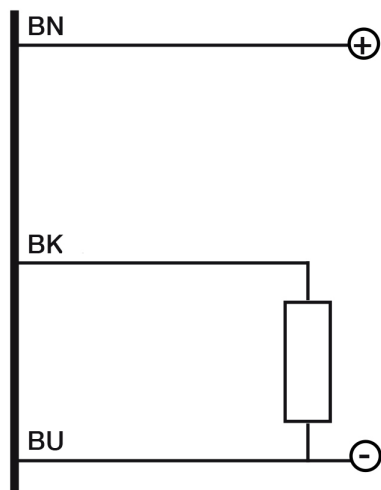
Approvals	CE UR
EMC compatibility	IEC 60947-5-2
Shocks and vibrations	Vibration IEC 60068-2-6 / Shock IEC 60068-2-27
Degree of protection	IP67

Accessories

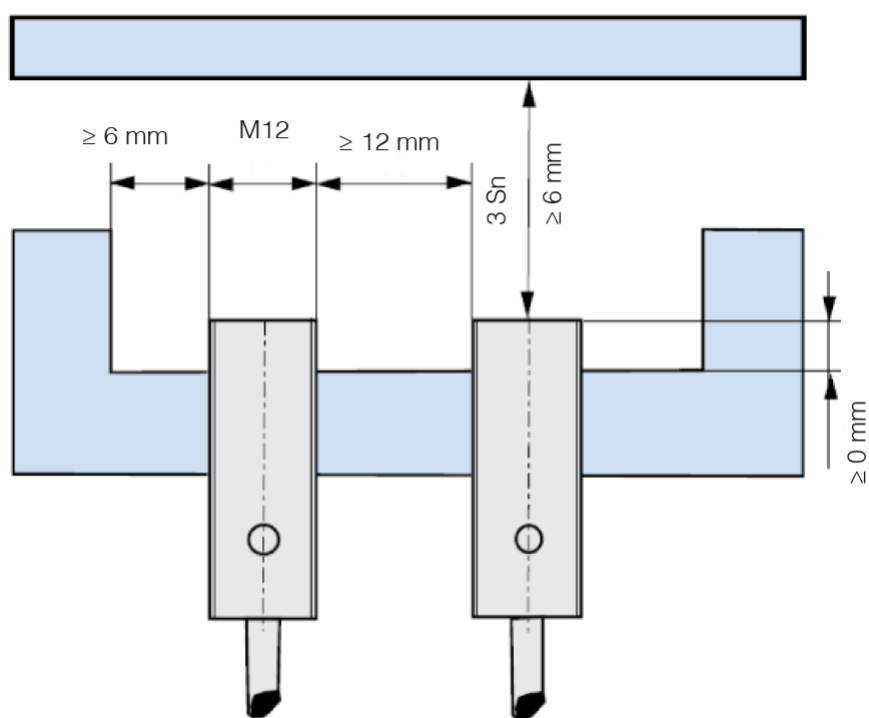
Supplied Accessories	2 nuts M12x1
----------------------	--------------

Generical Data

Dimensions	M12 x 1 / L = 39,8mm
Operating Temperature	-25°C...+70°C
Mechanical Protection	IP67

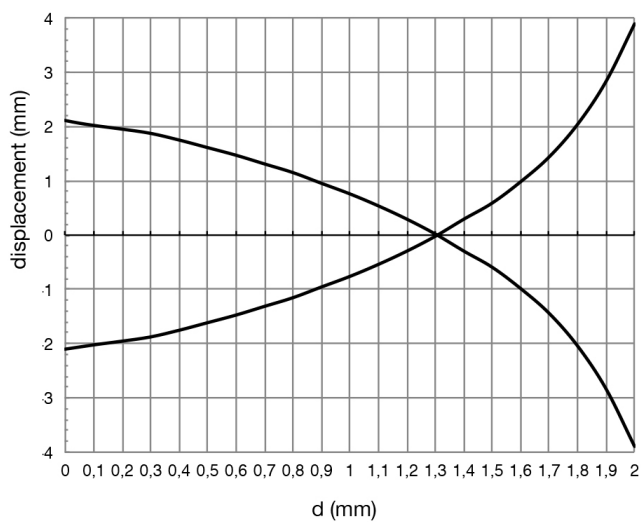


INSTALLATION



RESPONSE CURVES

Parallel offset



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

17/01/2024 09:32:30