



AES

AES/AP-1F

Ind.M8,PNP-NO,M8 plug,Sch-STD
M8 CYLINDRICAL MINIATURIZED INDUCTIVE SENSORS

OVERVIEW

- Miniaturized dimensions: M8 x 20 mm (cable) / 30 mm (plug) length
- Operating voltage: 10...30 Vcc
- Output current: 100 mA
- LED output indicator
- Totally protected against electrical damages
- Cable and plug M8 output
- Stainless steel housing



TECHNICAL FEATURES

Detection properties

Nominal sensing distance	1,5mm
--------------------------	-------

Operanting distance	0...1,21mm
---------------------	------------

Standard target	8x8mm FE360
-----------------	-------------

Correction Factor	copper: $0,15 \pm 10\%$ / aluminium: $0,10 \pm 10\%$ / brass: $0,15 \pm 10\%$ / stainless steel: $0,55 \pm 10\%$
-------------------	--

Thermal drift of Sr	< 10%
Repeat Accuracy	< 5% (UB 24V Ta=23°C ±5°C)
Hysteresis	1 ... 20%

Application

Description	M8 mini flush mount
Functions	Proximity

Outputs

Output type	PNP
Output Function	NO
Switching frequency	7kHz

Electrical data

Operating Voltage	10...30Vdc
No-Load supply current	≤ 10mA
Load current	≤ 100mA
Leakage current	≤ 10μA
Output voltage drop	≤ 1,5V @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

Mounting	Shielded
Dimensions	M8 x 1 / L = 29,4mm
Weight	4g
Housing Material	AISI 303 Stainless Steel
Connections	M8 Plug
Active Head Material	PBT
Tightening torque	5Nm
Operating temperature	-25°C...+70°C
Material	AISI303 Stainless Steel
Diameter/Dimension	M8

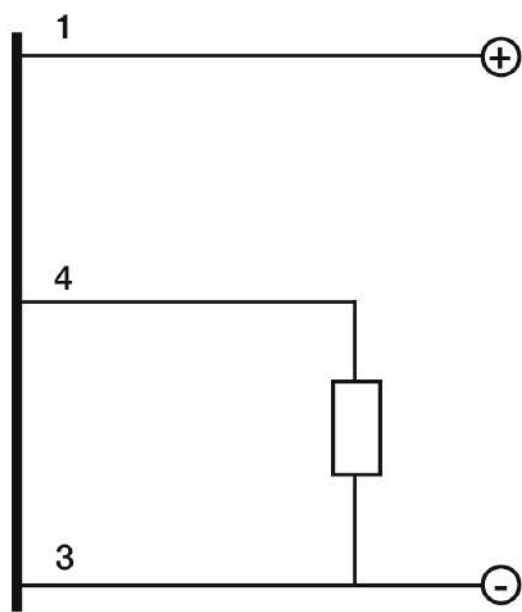
Test/Approvals

Approvals	CE cULus
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 M8x1
Generical Data	
Dimensions	M8 x 1 / L = 29,4mm
Operating Temperature	-25°C...+70°C
Mechanical Protection	IP67

CONNECTIONS

Eletrical diagram

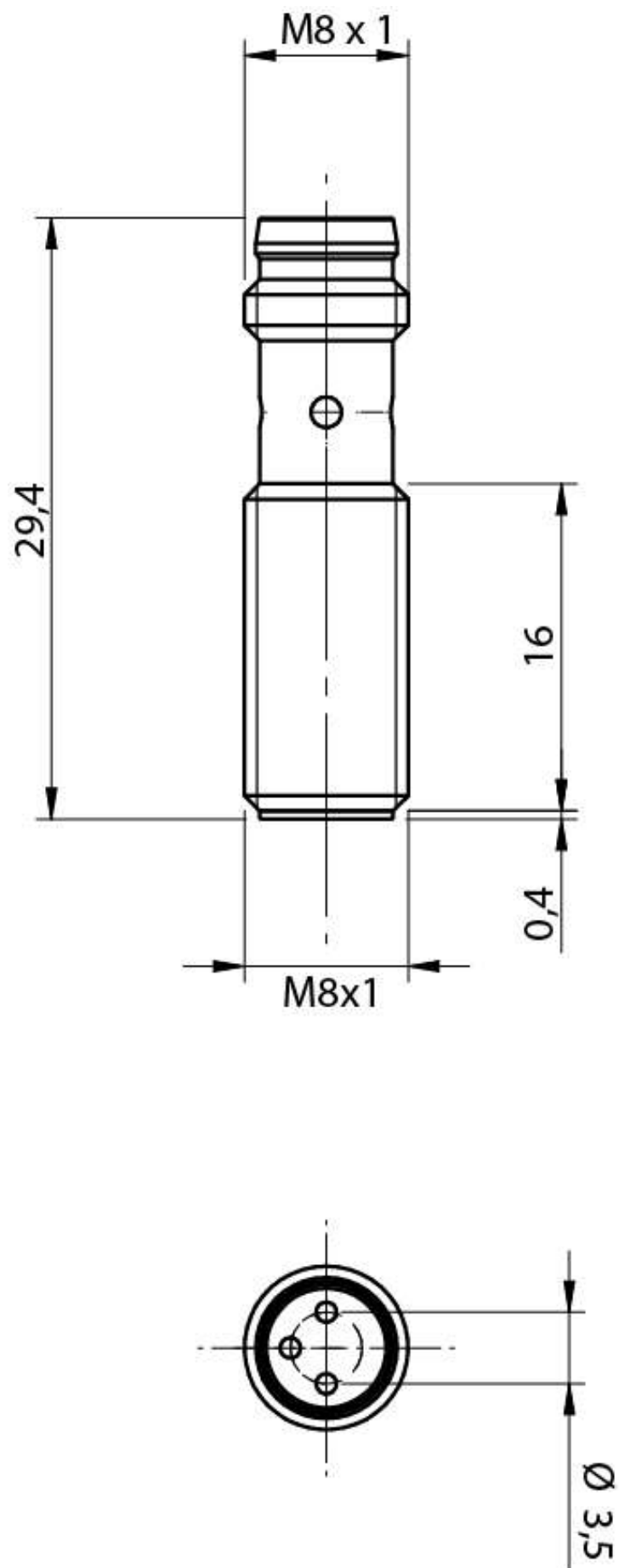


Connector

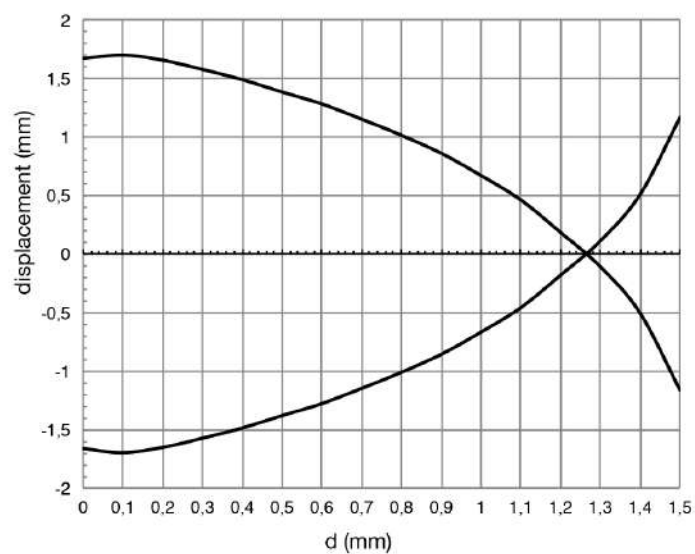


OTHERS

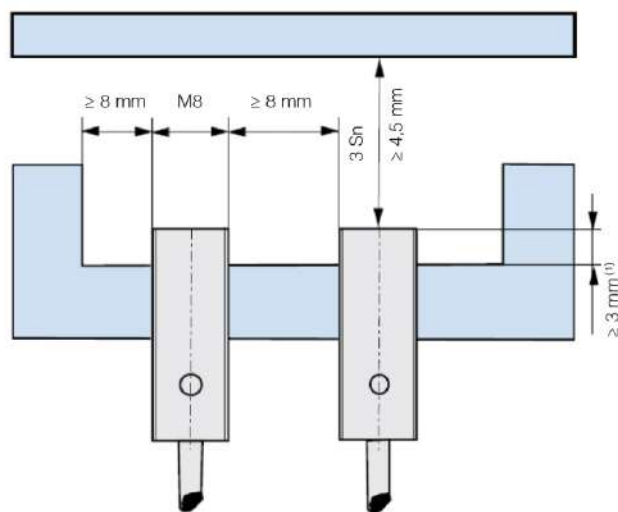
Dimensions



Response curves



Installation



⁽¹⁾ $\geq 3,5$ mm without ferro-magnetic material

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
10:51:07