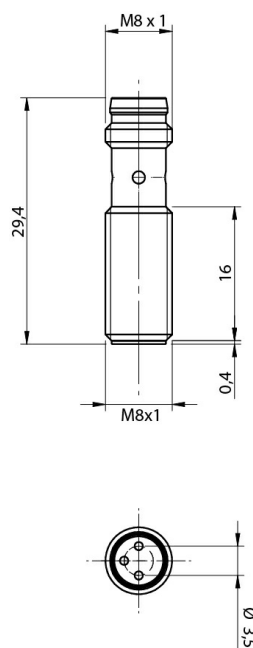




Indicative image

**M8 CYLINDRICAL MINIATURIZED INDUCTIVE SENSORS**

- 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

**Detection properties**

Nominal sensing distance	2mm
Operating distance	0...1,62mm
Standard target	6,5x6,5mm FE360
Correction Factor	copper: $0,15 \pm 10\%$ / aluminium: $0,15 \pm 10\%$ / brass: $0,21 \pm 10\%$ / stainless steel: $0,56 \pm 10\%$
Thermal drift of Sr	< 10 %
Repeat Accuracy	5% (UB 24V Ta=23°C $\pm 5^{\circ}\text{C}$)
Hysteresis	1 ... 20%

Outputs

Output type	NPN
Output Function	NC
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 (auto-reset)
Reverse Polarity 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
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

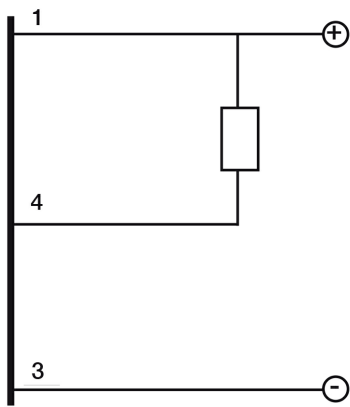
Accessories

Supplied Accessories	2 nuts M8x1
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Generical Data

Dimensions	M8 x 1 / L = 29,4mm
Operating Temperature	-25°C...+70°C
Mechanical Protection	IP67

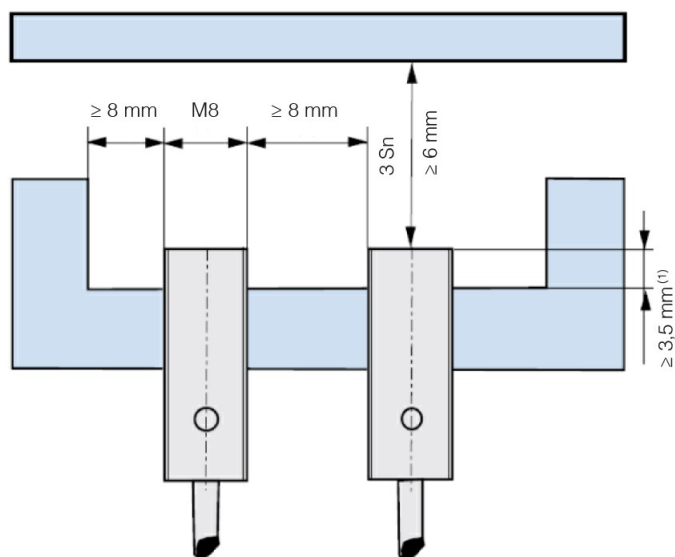
ELECTRICAL DIAGRAMS OF THE CONNECTIONS



CONNECTOR



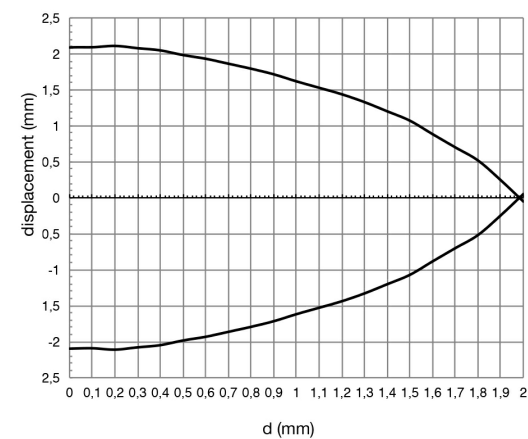
INSTALLATION



⁽¹⁾ $\geq 4 \text{ mm}$ without ferro-magnetic material

RESPONSE CURVES

Parallel offset



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