

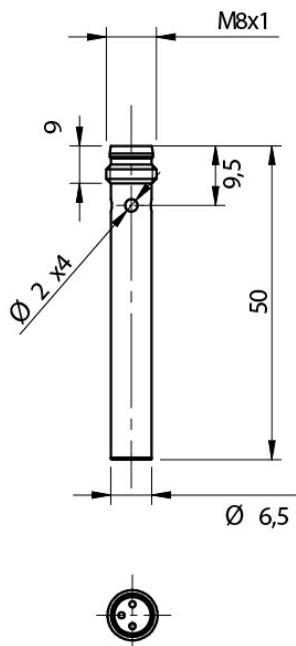


Indicative image



Ø 6.5 MM CYLINDRICAL INDUCTIVE SENSORS

- Extremely reduced dimensions
- Metal housing (stainless steel)
- LED status indicator 360° visible
- IP 67 protection degree
- ATEX models, cat. 3, available on request
- Complete protection against electrical damages
- Standard and long distance models
- Standard and short body housing



Detection properties

Nominal sensing distance	4mm
Operanting distance	0...3,24mm
Standard target	12x12mm FE360
Correction Factor	copper: 0,42 / aluminium: 0,47 / brass: 0,52 / stainless steel: 0,77
Thermal drift of Sr	< 10 %
Repeat Accuracy	5% (UB 24V Ta=23°C ±5°C)
Hysteresis	1 ... 20%

Outputs

Output type	NPN
Output Function	NO
Switching frequency	5kHz

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
Protection against inductive loads	Yes

Mechanical data

Mounting	Unshielded
Dimensions	Ø6,5 / L = 50mm
Weight	5g
Housing Material	Nickel-plated brass
Connections	M8 Plug
Active Head Material	PBT
Operating temperature	-25°C...+70°C
Diameter/Dimension	Ø6,5

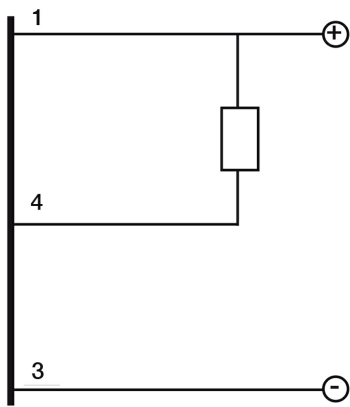
Test/Approvals

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

Generical Data

Dimensions	Ø6,5 / L = 50mm
Operating Temperature	-25°C...+70°C
Mechanical Protection	IP67

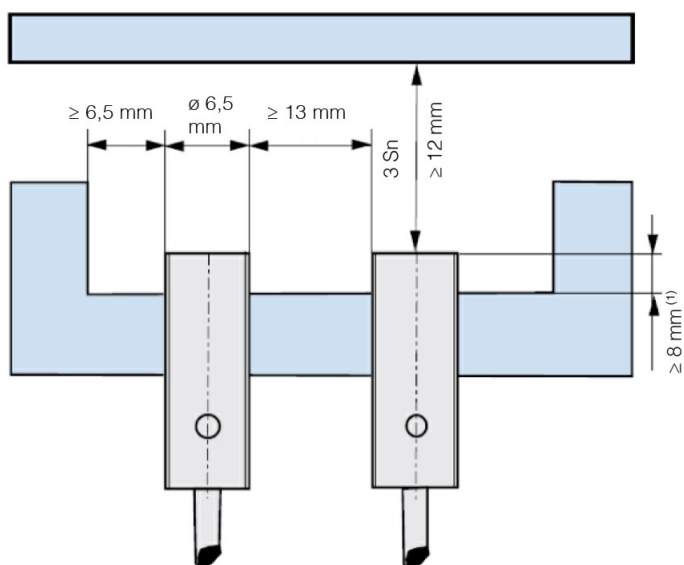
ELECTRICAL DIAGRAMS OF THE CONNECTIONS



CONNECTOR



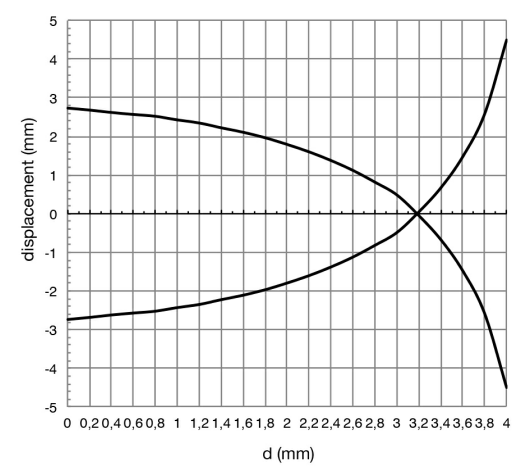
INSTALLATION



⁽¹⁾ $\geq 2,6 \text{ mm}$ for non magnetic materials

RESPONSE CURVES

Parallel offset



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