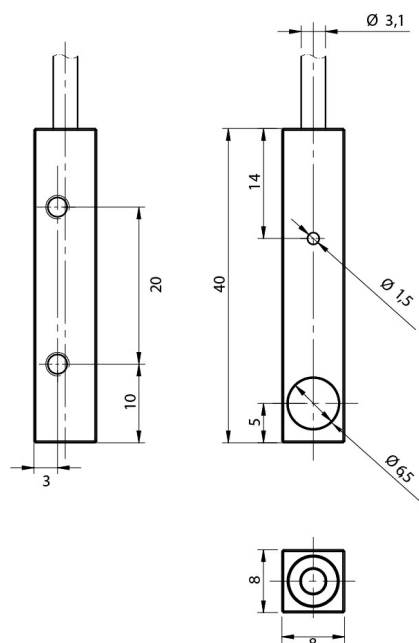




Indicative image

8 X 8 MM CUBIC MINIATURIZED INDUCTIVE SENSORS

- Complete range of cubic inductive sensors:
 - IL8 series: 8x8 mm with sensing head at the top
 - IL9 series: 8x8 mm with sensing head at the centre
- IP67 protection degree



Detection properties

Nominal sensing distance	1,5mm
Operanting distance	0...1,21mm
Standard target	8x8mm FE360
Correction Factor	copper: 0,15 / aluminium: 0,12 / brass: 0,25 / stainless steel: 0,61
Thermal drift of Sr	< 10 %
Repeat Accuracy	5% (UB 24V Ta=23°C ±5°C)
Hysteresis	1 ... 20%

Outputs

Output type	NPN
Output Function	NC
Switching frequency	≤ 5kHz

Electrical data

Operating Voltage	10...30Vdc
No-Load supply current	≤ 10mA

Load current	≤ 200mA
Leakage current	≤ 10μA
Output voltage drop	≤ 1,5V @200mA
Max ripple content	≤10%
LED indicators	Blue LED output state
Time delay before availability	≤ 50ms
Short-circuit protection	Yes
Reverse Polarity Protection	Yes
Protection against inductive loads	Yes

Mechanical data

Mounting	Shielded
Dimensions	8 x 8 / L = 40mm / active head in the top
Weight	35g
Housing Material	AISI 303 Stainless Steel
Connections	2m PUR Cable
Active Head Material	PBT
Operating temperature	-25°C...+70°C
Diameter/Dimension	8x8x40mm

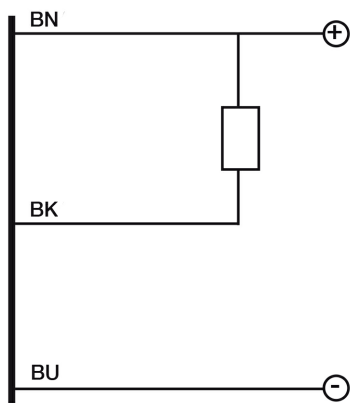
Test/Approvals

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

Generical Data

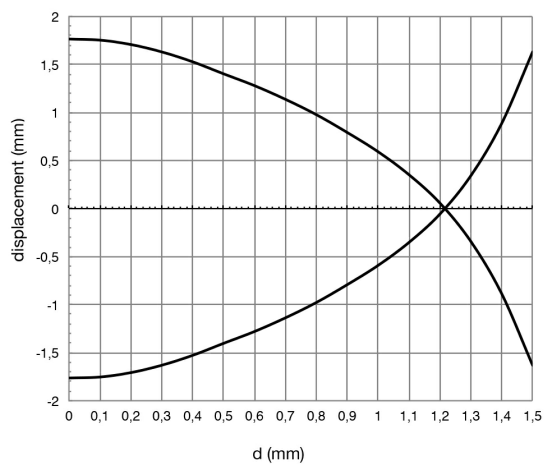
Dimensions	8 x 8 / L = 40mm / active head in the top
Operating Temperature	-25°C...+70°C
Mechanical Protection	IP67

ELECTRICAL DIAGRAMS OF THE CONNECTIONS



RESPONSE CURVES

Parallel offset



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