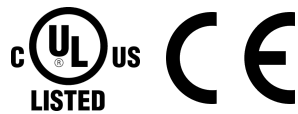


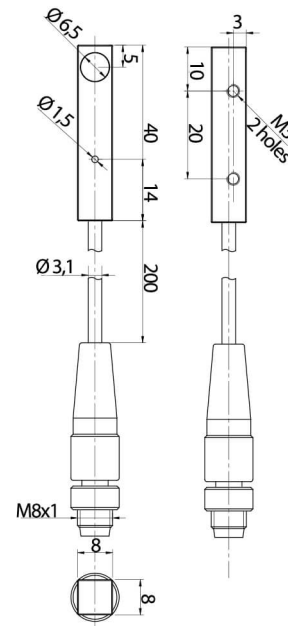


Indicative image



8 X 8 MM CUBIC MINIATURIZED INDUCTIVE SENSORS

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



Detection properties

| | |
|--------------------------|--|
| Nominal sensing distance | 2,5mm |
| Operanting distance | 0...2,02mm |
| 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 | PNP |
| 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 | ≤ 1,5V @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 | 10g |
| Housing Material | AISI 303 Stainless Steel |
| Connections | 200mm PUR Cable + M8 Plug |
| Active Head Material | PBT |
| Operating temperature | -25°C...+70°C |
| Diameter/Dimension | 8x8x40mm |

Test/Approvals

| | |
|-----------------------|--|
| Approvals | CE |
| 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



CONNECTOR



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

22/08/2022 11:24:30