

# IL5

## IL5/CN-3A

**Ind.5x5,NPN-NC,Cable,Sch-LD**

**5 X 5 MM CUBIC MINIATURIZED INDUCTIVE SENSORS**

# OVERVIEW

- Complete range of cubic inductive sensors IL8 series: 5x5x25 mm
- IP67 protection degree

# TECHNICAL FEATURES

Detection properties

| | |
|---|---|
| Nominal sensing distance | 1,5mm |
| Operanting distance | 0…1,21mm |
| Standard target | 5x5mm FE360 |
| Correction Factor | copper: 0,37 ± 10% / aluminium: 0,30 ± 10% / brass: 0,40 ± 10% / stainless steel: 0,67 ± 10% |
| Thermal drift of Sr | < 10% |
| Repeat Accuracy | < 5% (UB 24V Ta=23°C ±5°C) |

| | |
|---|---|
| Hysteresis | 1 … 20% |

Application

| | |
|---|---|
| Description | 5x5x25mm cubic flush mount |
| Functions | Proximity |

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 | Blue 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

| | |
|---|---|
| Dimensions | 5 x 5 / L = 25mm |
| Mounting | Shielded |
| Material | AISI303 Stainless Steel |
| Housing material | AISI303 Stainless Steel |
| Weight | 35g |
| Connections | 2m PUR Cable |
| Active Head Material | PBT |
| Operating temperature | -25°C…+70°C |
| Diameter/Dimension | 5x5x25mm |

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

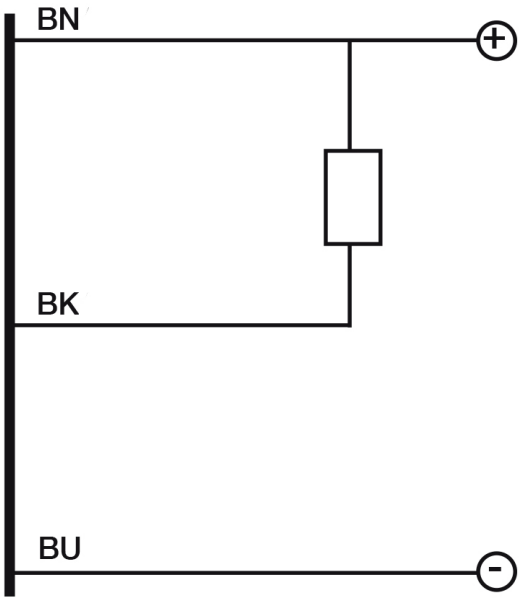
| | |
|---|---|
| Supplied Accessories | 2 screws 1.6x0.35 L10mm |

Generical Data

| | |
|---|---|
| Dimensions | 5 x 5 / L = 25mm |
| Operating Temperature | -25°C…+70°C |
| Mechanical Protection | IP67 |

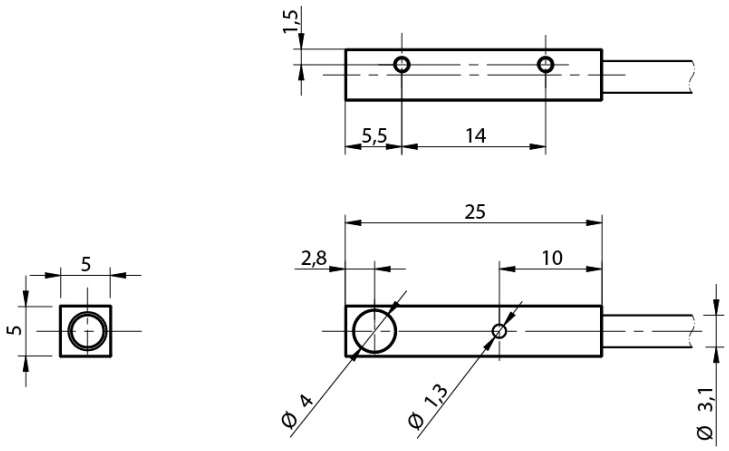
# CONNECTIONS

Eletrical diagram

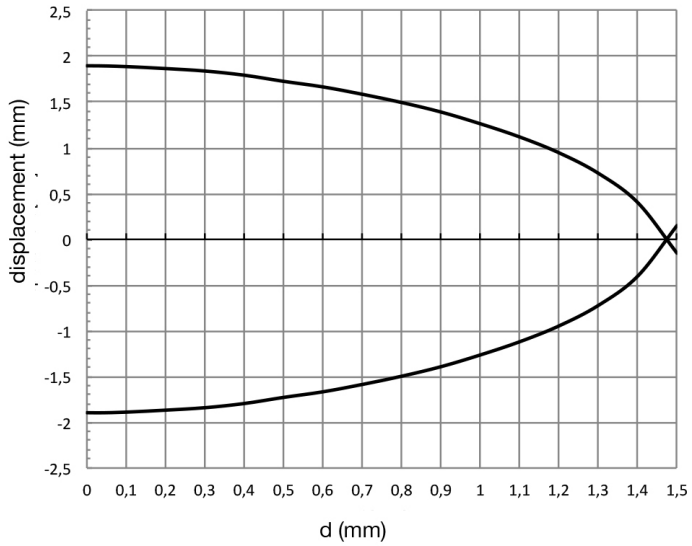



# OTHERS

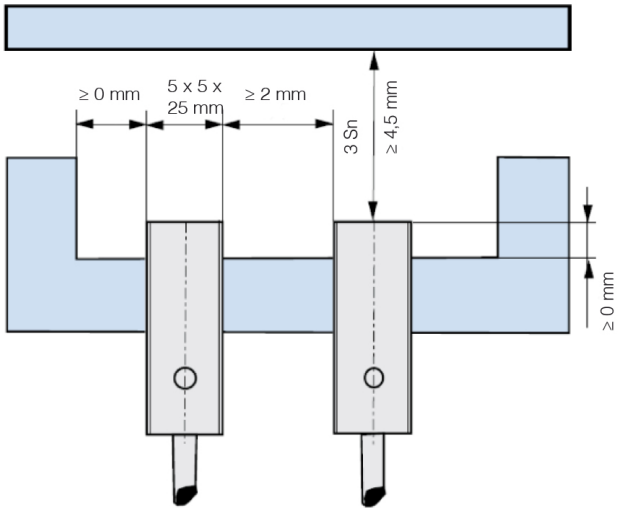
Dimensions




Response curves




Installation




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