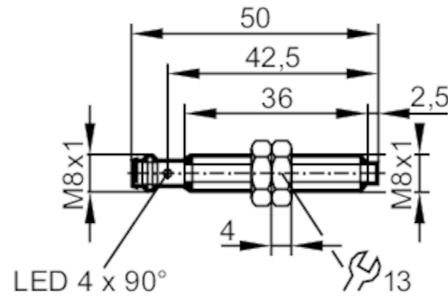


IE5282



Inductive sensor

IEB3002-BPKG/V4A/AS



Product characteristics

| | | |
|-------------------|------|-----------------|
| Electrical design | | PNP |
| Output function | | normally open |
| Sensing range | [mm] | 2 |
| Housing | | threaded type |
| Dimensions | [mm] | M8 x 1 / L = 50 |

Electrical data

| | | |
|-----------------------------|------|------------|
| Operating voltage | [V] | 10...36 DC |
| Current consumption | [mA] | 15; (24 V) |
| Protection class | | III |
| Reverse polarity protection | | yes |

Outputs

| | | |
|---|------|---------------|
| Electrical design | | PNP |
| Output function | | normally open |
| Max. voltage drop switching output DC | [V] | 2.5 |
| Permanent current rating of switching output DC | [mA] | 200 |
| Switching frequency DC | [Hz] | 1200 |
| Short-circuit protection | | yes |
| Overload protection | | yes |

Detection zone

| | | |
|-----------------------|------|----------|
| Sensing range | [mm] | 2 |
| Real sensing range Sr | [mm] | 2 ± 10 % |
| Operating distance | [mm] | 0...1.6 |

Accuracy / deviations

| | | |
|--------------------|-----------|---|
| Correction factor | | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3 |
| Hysteresis | [% of Sr] | 1...20 |
| Switch point drift | [% of Sr] | -10...10 |

Operating conditions

| | | |
|---------------------|------|--|
| Ambient temperature | [°C] | 0...80 |
| Protection | | IP 65; (with ifm socket duly screwed on: IP67) |

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| Tests / approvals | | |
|-------------------|---------------------------|-------------------|
| EMC | EN 61000-4-2 ESD | 4 kV CD / 8 kV AD |
| | EN 61000-4-3 HF radiated | 3 V/m |
| | EN 61000-4-4 Burst | 2 kV |
| | EN 61000-4-6 HF conducted | 3 V |
| | EN 55011 | class B |
| MTTF | [years] | 2428 |
| UL approval | Ta | -25...80 °C |
| | Enclosure type | Type 1 |
| | voltage supply | Class 2 |
| | File number UL | E174191 |

| Mechanical data | | |
|--------------------|------|---|
| Weight | [g] | 18.4 |
| Housing | | threaded type |
| Mounting | | non-flush mountable |
| Dimensions | [mm] | M8 x 1 / L = 50 |
| Thread designation | | M8 x 1 |
| Materials | | threaded sleeve: stainless steel; Sensing face: LCP black; potting: oil resistant |
| Tightening torque | [Nm] | A = 5 mm: 2 Nm; B: 6 Nm |

| Displays / operating elements | | |
|-------------------------------|------------------|---------------------|
| Display | switching status | 4 x 90° LED, yellow |

| Accessories | | |
|------------------------|--|--------------|
| Accessories (supplied) | | lock nuts: 2 |

| Remarks | | |
|---------------|--|--------|
| Pack quantity | | 1 pcs. |

Electrical connection - plug

Connector: 1 x M8



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Connection



Diagrams and graphs

Installation

