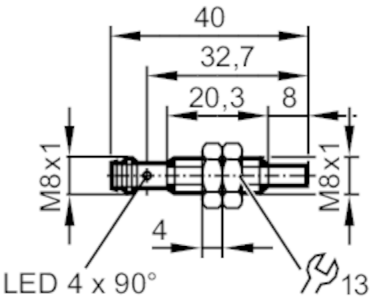
# IE5340

## Inductive sensor

IEBC005-ASKG/V4A/AS




| | | |
|---|---|---|
| **Product characteristics** | | |
| Electrical design | | PNP/NPN |
| Output function | | normally open |
| Sensing range | [mm] | 5 |
| Housing | | threaded type |
| Dimensions | [mm] | M8 x 1 / L = 40 |
| **Electrical data** | | |
| Operating voltage | [V] | 10...30 DC |
| Protection class | | III |
| Reverse polarity protection | | yes |
| **Outputs** | | |
| Electrical design | | PNP/NPN |
| Output function | | normally open |
| Max. voltage drop switching output DC | [V] | 3.5 |
| Minimum load current | [mA] | 2;  (only in 2-wire operation) |
| Max. leakage current | [mA] | 0.5;  (only in 2-wire operation) |
| Permanent current rating of switching output DC | [mA] | 100 |
| Switching frequency DC | [Hz] | 600 |
| Short-circuit protection | | yes |
| Overload protection | | yes |
| **Detection zone** | | |
| Sensing range | [mm] | 5 |
| Real sensing range Sr | [mm] | 5 ± 10 % |
| Operating distance | [mm] | 0...4.05 |
| **Accuracy / deviations** | | |
| Correction factor | | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.5 / copper: 0.4 |
| Hysteresis | [% of Sr] | 1...20 |
| Switch point drift | [% of Sr] | -10...10 |
| **Operating conditions** | | |
| Ambient temperature | [°C] | 0...60 |

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| | | | |
|---|---|---|---|
| Protection | | IP 65; IP 67; (with ifm socket duly screwed on) | |
| **Tests / approvals** | | | |
| EMC | | EN 61000-4-2 ESD | 4 kV CD / 8 kV AD |
| | | EN 61000-4-3 HF radiated | 10 V/m |
| | | EN 61000-4-4 Burst | 2 kV |
| | | EN 61000-4-6 HF conducted | 10 V |
| | | EN 55011 | class B |
| MTTF | [years] | 1864 | |
| Embedded software included | | yes | |
| UL approval | | Ta | 0...60 °C |
| | | Enclosure type | Type 1 |
| | | power supply | Limited Voltage/Current |
| | | UL Approval no. | A017 |
| | | File number UL | E174191 |
| **Mechanical data** | | | |
| Weight | [g] | 13.8 | |
| Housing | | threaded type | |
| Mounting | | non-flush mountable | |
| Dimensions | [mm] | M8 x 1 / L = 40 | |
| Thread designation | | M8 x 1 | |
| Materials | | stainless steel (316 / 1.4401); sensing face: LCP orange;<br>LED window: PPSU; lock nuts: stainless steel (316 / 1.4401) | |
| Tightening torque | [Nm] | A = 5 mm: 2 Nm; B = 5 Nm | |
| **Displays / operating elements** | | | |
| Display | | switching status | 4 LED, yellow |
| **Accessories** | | | |
| Items supplied | | lock nuts: 2 | |
| **Remarks** | | | |
| Pack quantity | | 1 pcs. | |

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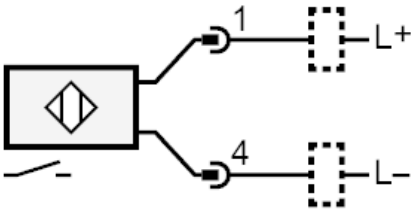
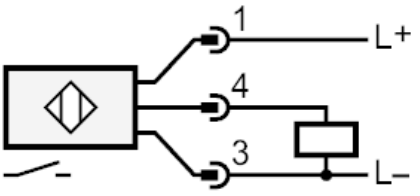
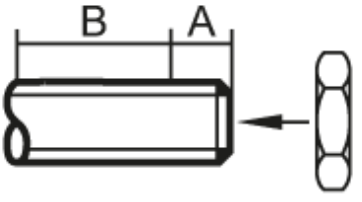
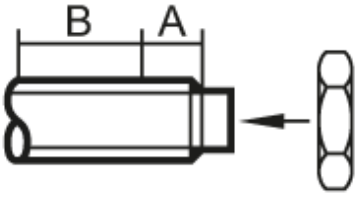
## Electrical connection - plug

Connector: 1 x M8; coding: A




## Diagrams and graphs

Installation