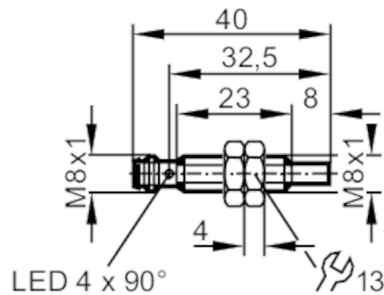


IE5350



Inductive sensor

IEBC005-BSKG/V4A/IAS



| Electrical data | | |
|---|-----------|---|
| Operating voltage | [V] | 10...30 DC; (to PELV; "supply class 2" to cULus) |
| Current consumption | [mA] | < 15; (only in 3-wire operation) |
| Protection class | | III |
| Reverse polarity protection | | yes |
| Outputs | | |
| Electrical design | | PNP/NPN |
| Output function | | normally closed |
| 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 |
| Type of short-circuit protection | | pulsed |
| 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: 0.4 / copper: 0.3 |
| Hysteresis | [% of Sr] | 1...20 |
| Switch point drift | [% of Sr] | -10...10 |
| Operating conditions | | |
| Ambient temperature | [°C] | 0...60 |
| Protection | | IP 65; IP 67; (with ifm socket duly screwed on) |

IE5350



Inductive sensor

IEBC005-BSKG/V4A/AS

| 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 61000-4-5 Surge | 0,5 kV line to line, Ri: 2 Ohm |
| | EN 61000-4-6 HF conducted | 10 V |
| | EN 55011 | class B |
| MTTF | [years] | 2046 |
| UL approval | Ta | -25...80 °C |
| | Enclosure type | Type 1 |
| | voltage supply | Class 2 |
| | File number UL | E174191 |

| Mechanical data | | |
|--------------------|------|---|
| Weight | [g] | 17.6 |
| Housing | | threaded type |
| Mounting | | non-flush mountable |
| Dimensions | [mm] | M8 x 1 / L = 40 |
| Thread designation | | M8 x 1 |
| Materials | | stainless steel; sensing face: LCP orange |
| Tightening torque | [Nm] | A = 5 mm: 2 Nm; B: 6 Nm |

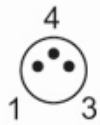
| Displays / operating elements | | |
|-------------------------------|------------------|---------------------|
| Display | switching status | 4 x 90° LED, yellow |

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

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

Electrical connection - plug

Connector: 1 x M8



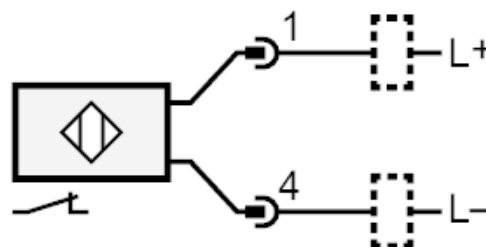
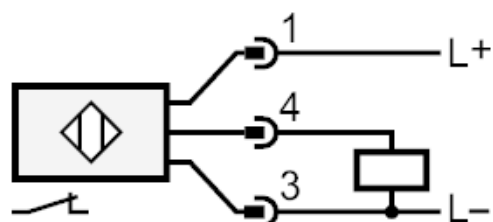
IE5350



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IEBC005-BSKG/V4A/AS

3-wire



Diagrams and graphs

Installation

