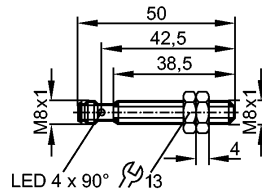


**IE5258**

IEB3001-APKG/AS

Inductive sensors



**Product characteristics**

|   |
|---|
| Inductive sensor                        |
| Metal thread M8 x 1                     |
| Quick disconnect                        |
| Sensing range 1 mm; [f] flush mountable |

**Electrical data**

|                             |  |
|-----------------------------|--|
| Electrical design           | DC PNP   |
| Operating voltage [V]       | 10...36 DC; to PELV; cULus - Class 2 source required |
| Current consumption [mA]    | 15 (24 V)  |
| Protection class            | III  |
| Reverse polarity protection | yes  |

**Outputs**

|                          |                    |
|--------------------------|--------------------|
| Output function          | normally closed    |
| Voltage drop [V]         | < 2.5              |
| Current rating [mA]      | 200                |
| Short-circuit protection | yes (non-latching) |
| Overload protection      | yes                |
| Switching frequency [Hz] | 2000               |

**Monitoring range**

|                              |          |
|------------------------------|----------|
| Sensing range [mm]           | 1        |
| Real sensing range (Sr) [mm] | 1 ± 10 % |
| Operating distance [mm]      | 0...0.8  |

**Accuracy / deviations**

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

**Environment**

|                          |  |
|--------------------------|--|
| Ambient temperature [°C] | -25...80                                       |
| Protection               | IP 65 / IP 67; with ifm socket duly screwed on |

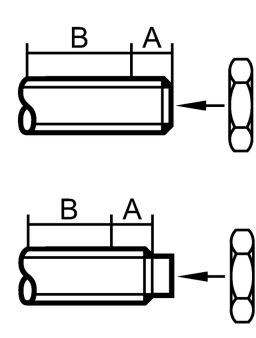
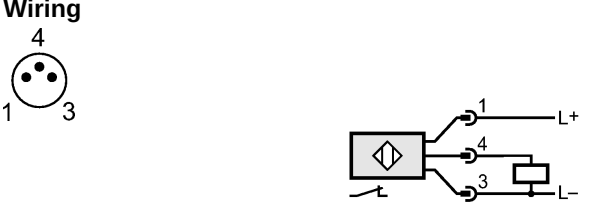
**Tests / approvals**

|              |  |
|--------------|--|
| EMC          | EN 61000-4-2 ESD: 4 kV CD / 8 kV AD<br>EN 61000-4-3 HF radiated: 10 V/m<br>EN 61000-4-4 Burst: 2 kV<br>EN 61000-4-5 Surge: 0.5 kV (line to line, Ri: 20hm)<br>EN 61000-4-6 HF conducted: 10 V<br>EN 60947-5-2<br>EN 55011: class B |
| MTTF [Years] | 2359   |

**IE5258**

IEB3001-APKG/AS

**Inductive sensors**

| Mechanical data               |   |
|-------------------------------|---|
| Mounting                      | flush mountable   |
| Housing materials             | threaded sleeve: brass white bronze coated; active face: LCP; lock nuts: brass      |
| Installation                  |   |
| Tightening torque             | [Nm] 1.5 (A = 5 mm)<br>2 (B)  |
| Weight                        | [kg] 0.021  |
| Displays / operating elements |   |
| Output status indication      | LED yellow (4 x 90°)  |
| Electrical connection         |   |
| Connection                    | M8 connector  |
| <b>Wiring</b>                 |  |
| Accessories                   |   |
| Accessories (included)        | 2 lock nuts   |
| Remarks                       |   |
| Pack quantity                 | [piece] 1   |