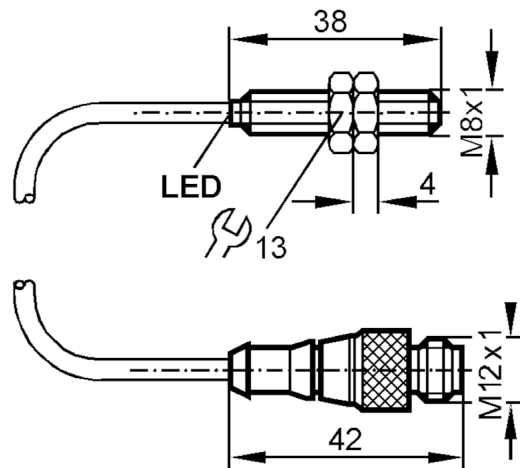


# IE5325



## Inductive sensor

IEB3002BAPKG/0,8M/FH/US100DPOR



| Product characteristics                         |      |                 |
|-------------------------------------------------|------|-----------------|
| Electrical design                               |      | PNP             |
| Output function                                 |      | normally closed |
| Sensing range                                   | [mm] | 2               |
| Housing                                         |      | Threaded type   |
| Dimensions                                      | [mm] | M8 x 1          |
| 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 closed |
| Max. voltage drop switching output DC           | [V]  | 2.5             |
| Permanent current rating of switching output DC | [mA] | 200             |
| Short-time current rating of switching output   | [mA] | 200             |
| Switching frequency DC                          | [Hz] | 1000            |
| Short-circuit protection                        |      | yes             |
| Overload protection                             |      | yes             |

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| Monitoring range                                                                    |                           |                                |
|-------------------------------------------------------------------------------------|---------------------------|--------------------------------|
| Sensing range                                                                       | [mm]                      | 2                              |
| Real sensing range Sr                                                               | [mm]                      | 2 ± 10 %                       |
| Operating distance                                                                  | [mm]                      | 0...1.62                       |
| Accuracy / deviations                                                               |                           |                                |
| Hysteresis                                                                          | [% of Sr]                 | 1...15                         |
| Switch-point drift                                                                  | [% of Sr]                 | -10...10                       |
| Operating conditions                                                                |                           |                                |
| Ambient temperature                                                                 | [°C]                      | -25...70                       |
| Protection                                                                          |                           | IP 67                          |
| 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]                   | 2804                           |
| Mechanical data                                                                     |                           |                                |
| Weight                                                                              | [g]                       | 39.4                           |
| Housing                                                                             |                           | Threaded type                  |
| Mounting                                                                            |                           | flush mountable                |
| Dimensions                                                                          | [mm]                      | M8 x 1                         |
| Thread designation                                                                  |                           | M8 x 1                         |
| Material                                                                            |                           | brass white bronze coated; LCP |
| Tightening torque                                                                   | [Nm]                      | A = 5 mm: 1 Nm; B: 2 Nm        |
| Displays / operating elements                                                       |                           |                                |
| Display                                                                             | Switching status          | 1 x LED, red                   |
| Accessories                                                                         |                           |                                |
| Items supplied                                                                      |                           | lock nuts: 2                   |
| Remarks                                                                             |                           |                                |
| Pack quantity                                                                       |                           | 1 pcs.                         |
| Electrical connection - plug                                                        |                           |                                |
| Cable: 0.8 m, PUR; flame-retardant (FRNC); 3 x 0.14 mm <sup>2</sup>                 |                           |                                |
| Connector: 1 x M12; coding: A; Locking: rotatable                                   |                           |                                |
|  |                           |                                |

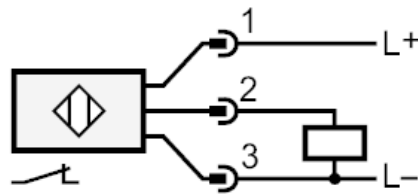
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## Inductive sensor

IEB3002BAPKG/0,8M/FH/US100DPOR

### Connection



### Diagrams and graphs

#### Installation

