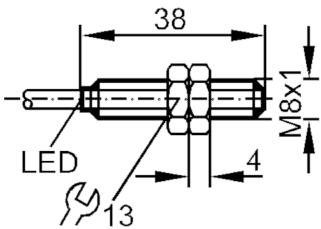




Inductive sensor

IEB3002BBPKG/0,185M/PH/AS610RT



| Electrical data                                 |      |                                         |
|-------------------------------------------------|------|-----------------------------------------|
| Operating voltage                               | [V]  | 10...36 DC; ("supply class 2" to cULus) |
| 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] | 250                                     |
| Short-time current rating of switching output   | [mA] | 250                                     |
| Switching frequency DC                          | [Hz] | 1000                                    |
| Short-circuit protection                        |      | yes                                     |
| Type of short-circuit protection                |      | pulsed                                  |
| Overload protection                             |      | yes                                     |
| Detection zone                                  |      |                                         |
| Sensing range                                   | [mm] | 2                                       |
| Real sensing range Sr                           | [mm] | 2 ± 10 %                                |
| Operating distance                              | [mm] | 0...1.62                                |

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## Inductive sensor

IEB3002BBPKG/0,185M/PH/AS610RT

| Accuracy / deviations                                                               |                                                                             |              |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------|
| Correction factor                                                                   | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3 |              |
| 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 60947-5-2                                                                |              |
|                                                                                     | EN 55011                                                                    | class B      |
| MTTF                                                                                | [years]                                                                     | 3502         |
| UL approval                                                                         | Ta                                                                          | -25...70 °C  |
|                                                                                     | Enclosure type                                                              | Type 1       |
|                                                                                     | voltage supply                                                              | Class 2      |
|                                                                                     | File number UL                                                              | E174191      |
| Mechanical data                                                                     |                                                                             |              |
| Weight                                                                              | [g]                                                                         | 25.2         |
| Housing                                                                             | threaded type                                                               |              |
| Mounting                                                                            | flush mountable                                                             |              |
| Dimensions                                                                          | [mm]                                                                        | M8 x 1       |
| Thread designation                                                                  | M8 x 1                                                                      |              |
| Materials                                                                           | brass white bronze coated; LCP                                              |              |
| Displays / operating elements                                                       |                                                                             |              |
| Display                                                                             | switching status                                                            | 1 x LED, red |
| Electrical connection                                                               |                                                                             |              |
| Connection                                                                          | plug                                                                        |              |
| Accessories                                                                         |                                                                             |              |
| Accessories (supplied)                                                              | lock nuts: 2                                                                |              |
| Remarks                                                                             |                                                                             |              |
| Pack quantity                                                                       | 1 pcs.                                                                      |              |
| Electrical connection - plug                                                        |                                                                             |              |
| Cable: 0.185 m, PUR; 3 x 0.14 mm²                                                   |                                                                             |              |
| Connector: 1 x M8; Locking: snap-fit                                                |                                                                             |              |
|  |                                                                             |              |

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### Connection

