

# IB500A



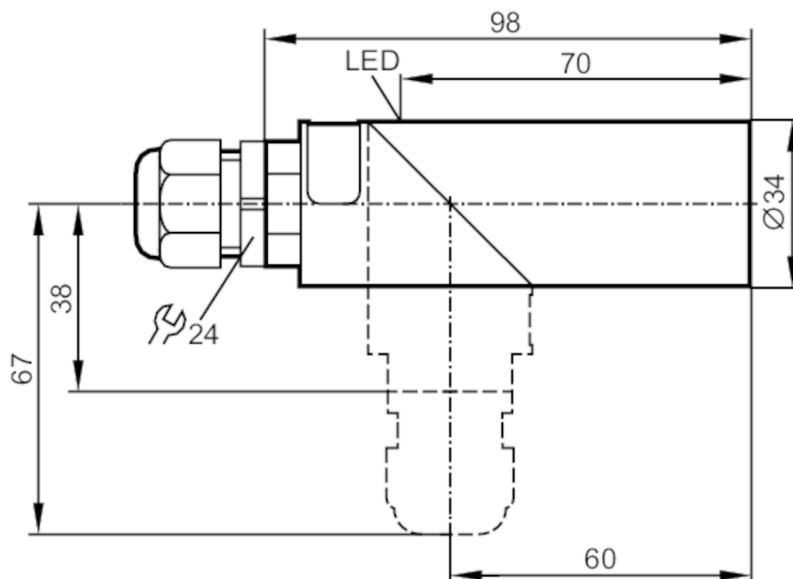
## Inductive sensor

IBE3020-FPKG/3D

Article no longer available - archive entry

Alternative articles: IM506A

When selecting an alternative article and accessories please note that technical data may differ!



### Product characteristics

|                    |                                               |
|--------------------|-----------------------------------------------|
| Electrical design  | PNP                                           |
| Output function    | normally open / normally closed; (selectable) |
| Sensing range [mm] | 20                                            |
| Housing            | cylindrical                                   |
| Dimensions [mm]    | Ø 34 / L = 98                                 |

### Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...36 DC |
| Current consumption [mA]    | 15; (24 V) |
| Protection class            | II         |
| Reverse polarity protection | yes        |

### Outputs

|                                                      |                                               |
|------------------------------------------------------|-----------------------------------------------|
| Electrical design                                    | PNP                                           |
| Output function                                      | normally open / normally closed; (selectable) |
| 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]                          | 350                                           |

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## Inductive sensor

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|                                   |                  |                                                                                                                  |
|-----------------------------------|------------------|------------------------------------------------------------------------------------------------------------------|
| Short-circuit protection          |                  | yes                                                                                                              |
| Type of short-circuit protection  |                  | pulsed                                                                                                           |
| Overload protection               |                  | yes                                                                                                              |
| Detection zone                    |                  |                                                                                                                  |
| Sensing range                     | [mm]             | 20                                                                                                               |
| Real sensing range Sr             | [mm]             | 20 ± 10 %                                                                                                        |
| Operating distance                | [mm]             | 0...16.2                                                                                                         |
| Accuracy / deviations             |                  |                                                                                                                  |
| Correction factor                 |                  | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2                                      |
| Hysteresis                        | [X01]            | 1...15                                                                                                           |
| Switch point drift                | [X01]            | -10...10                                                                                                         |
| Operating conditions              |                  |                                                                                                                  |
| Ambient temperature               | [°C]             | -20...60                                                                                                         |
| Note on ambient temperature       |                  | when used outside the hazardous area: -25...80 °C                                                                |
| Protection                        |                  | IP 54; (when used outside the hazardous area: IP 65)                                                             |
| Tests / approvals                 |                  |                                                                                                                  |
| ATEX marking                      |                  |  II 3D Ex tD A22 IP54 T80°C X |
| EMC                               |                  | EN 60947-5-2                                                                                                     |
| Mechanical data                   |                  |                                                                                                                  |
| Weight                            | [g]              | 0.212                                                                                                            |
| Housing                           |                  | cylindrical                                                                                                      |
| Mounting                          |                  | non-flush mountable                                                                                              |
| Dimensions                        | [mm]             | Ø 34 / L = 98                                                                                                    |
| Materials                         |                  | PBT; end cap: PC                                                                                                 |
| Tightening torque for cable gland | [Nm]             | 3.5                                                                                                              |
| Displays / operating elements     |                  |                                                                                                                  |
| Display                           | switching status | 1 x LED, yellow                                                                                                  |
| Акcesуари                         |                  |                                                                                                                  |
| Items supplied                    |                  | кріпильні хомути: 1                                                                                              |
| Remarks                           |                  |                                                                                                                  |
| Pack quantity                     | 1 pcs.           |                                                                                                                  |

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### Electrical connection

terminals: ...2.5 mm<sup>2</sup>; Cable sheath: Ø 5.5...13 mm

### Connection

