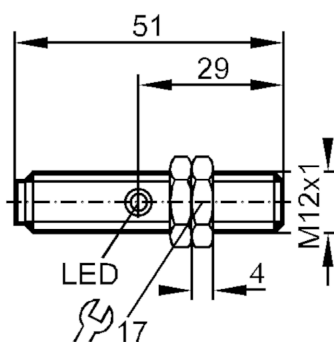




## Inductive sensor

IFB3002-BPKG

Article no longer available - archive entry



## Product characteristics

|                    |               |
|--------------------|---------------|
| Electrical design  | PNP           |
| Output function    | normally open |
| Sensing range [mm] | 2             |
| Housing            | Threaded type |
| Dimensions [mm]    | M12 x 1       |

## Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 18...36 DC |
| Current consumption [mA]    | 15; (24 V) |
| Protection class            | I          |
| 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] | 125; (150 (...50 °C)) |
| Switching frequency DC [Hz]                          | 800                   |
| Short-circuit protection                             | yes                   |
| Type of short-circuit protection                     | yes (non-latching)    |
| Overload protection                                  | yes                   |

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## Inductive sensor

IFB3002-BPKG

| Monitoring range              |                  |                                                                            |
|-------------------------------|------------------|----------------------------------------------------------------------------|
| Sensing range                 | [mm]             | 2                                                                          |
| Real sensing range Sr         | [mm]             | 2 ± 10 %                                                                   |
| Operating distance            | [mm]             | 0...1.6                                                                    |
| Accuracy / deviations         |                  |                                                                            |
| Correction factor             |                  | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.4 / copper: 0.3 |
| Hysteresis                    | [% of Sr]        | 3...15                                                                     |
| Switch-point drift            | [% of Sr]        | -10...10                                                                   |
| Operating conditions          |                  |                                                                            |
| Ambient temperature           | [°C]             | -25...80                                                                   |
| Protection                    |                  | IP 65                                                                      |
| Tests / approvals             |                  |                                                                            |
| EMC                           | EN 60947-5-2     |                                                                            |
|                               | EN 55011         | class B                                                                    |
| Mechanical data               |                  |                                                                            |
| Housing                       |                  | Threaded type                                                              |
| Mounting                      |                  | flush mountable                                                            |
| Dimensions                    | [mm]             | M12 x 1                                                                    |
| Thread designation            |                  | M12 x 1                                                                    |
| Material                      |                  | brass nickel-plated; PBT                                                   |
| Displays / operating elements |                  |                                                                            |
| Display                       | Switching status | 1 x LED, yellow                                                            |
| Remarks                       |                  |                                                                            |
| Pack quantity                 |                  | 1 pcs.                                                                     |
| Electrical connection - plug  |                  |                                                                            |
| Connector: 1 x M12; coding: A |                  |                                                                            |
|                               |                  |                                                                            |



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## Inductive sensor

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### Connection

