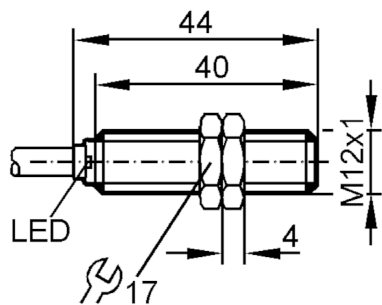




Inductive sensor

IFB3002-BPKG/V2A/10-55V/3M/BH



| Product characteristics                              |                       |
|------------------------------------------------------|-----------------------|
| Electrical design                                    | PNP                   |
| Output function                                      | normally open         |
| Sensing range [mm]                                   | 2                     |
| Housing                                              | threaded type         |
| Dimensions [mm]                                      | M12 x 1               |
| Application                                          |                       |
| Special feature                                      | Halogen-free          |
| Electrical data                                      |                       |
| Operating voltage [V]                                | 10...55 DC            |
| Current consumption [mA]                             | < 15                  |
| Protection class                                     | II                    |
| 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)) |
| Short-time current rating of switching output [mA]   | 150                   |
| Switching frequency DC [Hz]                          | 1000                  |
| Short-circuit protection                             | yes                   |

# IF5955



## Inductive sensor

IFB3002-BPKG/V2A/10-55V/3M/BH

|                                  |                  |                                                                             |
|----------------------------------|------------------|-----------------------------------------------------------------------------|
| 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...1.6                                                                     |
| Accuracy / deviations            |                  |                                                                             |
| Correction factor                |                  | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3 |
| Hysteresis                       | [X01]            | 3...15                                                                      |
| Switch point drift               | [X01]            | -10...10                                                                    |
| Operating conditions             |                  |                                                                             |
| Ambient temperature              | [°C]             | -25...80                                                                    |
| Protection                       |                  | IP 67                                                                       |
| Tests / approvals                |                  |                                                                             |
| EMC                              | EN 60947-5-2     |                                                                             |
|                                  | EN 55011         | class B                                                                     |
| MTTF                             | [ANN]            | 2418                                                                        |
| Mechanical data                  |                  |                                                                             |
| Weight                           | [g]              | 113.8                                                                       |
| Housing                          |                  | threaded type                                                               |
| Mounting                         |                  | flush mountable                                                             |
| Dimensions                       | [mm]             | M12 x 1                                                                     |
| Thread designation               |                  | M12 x 1                                                                     |
| Materials                        |                  | housing: stainless steel (1.4305 / 303); sensing face: PBT; end cap: TPE    |
| Displays / operating elements    |                  |                                                                             |
| Display                          | switching status | 1 x LED, yellow                                                             |
| Аксессуары                       |                  |                                                                             |
| Items supplied                   |                  | lock nuts: 2                                                                |
| Remarks                          |                  |                                                                             |
| Pack quantity                    |                  | 1 pcs.                                                                      |

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## Inductive sensor

IFB3002-BPKG/V2A/10-55V/3M/BH

### Electrical connection

Cable: 3 m, PUR, Halogen-free; 3 x 0.34 mm<sup>2</sup>

### Connection

