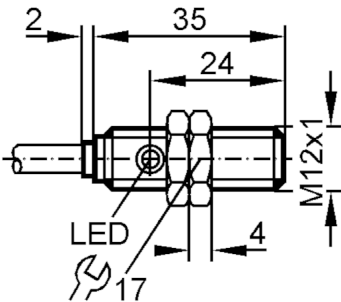


# IF5998



## Inductive sensor

IFB3002-ANKG



| Product characteristics                              |                    |
|------------------------------------------------------|--------------------|
| Electrical design                                    | NPN                |
| Output function                                      | normally open      |
| Sensing range [mm]                                   | 2                  |
| Housing                                              | Threaded type      |
| Dimensions [mm]                                      | M12 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                                    | NPN                |
| Output function                                      | normally open      |
| Max. voltage drop switching output DC [V]            | 2.5                |
| Permanent current rating of switching output DC [mA] | 250                |
| Switching frequency DC [Hz]                          | 1000               |
| Short-circuit protection                             | yes                |
| Type of short-circuit protection                     | yes (non-latching) |
| Overload protection                                  | yes                |

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| Monitoring range              |                  |                                                                            |
|-------------------------------|------------------|----------------------------------------------------------------------------|
| Sensing range                 | [mm]             | 2                                                                          |
| Real sensing range Sr         | [mm]             | 2 ± 10 %                                                                   |
| Operating distance            | [mm]             | 0...1.6                                                                    |
| Accuracy / deviations         |                  |                                                                            |
| Correction factor             |                  | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.2 |
| Hysteresis                    | [% of Sr]        | 1...15                                                                     |
| Switch-point drift            | [% of Sr]        | -10...10                                                                   |
| Operating conditions          |                  |                                                                            |
| Ambient temperature           | [°C]             | -25...80                                                                   |
| Protection                    |                  | IP 67                                                                      |
| Tests / approvals             |                  |                                                                            |
| EMC                           | EN 60947-5-2     |                                                                            |
|                               | EN 55011         | class B                                                                    |
| MTTF                          | [years]          | 2519                                                                       |
| Mechanical data               |                  |                                                                            |
| Weight                        | [g]              | 95.6                                                                       |
| Housing                       |                  | Threaded type                                                              |
| Mounting                      |                  | flush mountable                                                            |
| Dimensions                    | [mm]             | M12 x 1                                                                    |
| Thread designation            |                  | M12 x 1                                                                    |
| Material                      |                  | brass white bronze coated; PC                                              |
| Displays / operating elements |                  |                                                                            |
| Display                       | Switching status | 1 x LED, yellow                                                            |
| Accessories                   |                  |                                                                            |
| Items supplied                |                  | lock nuts: 2                                                               |
| Remarks                       |                  |                                                                            |
| Pack quantity                 |                  | 1 pcs.                                                                     |

# IF5998



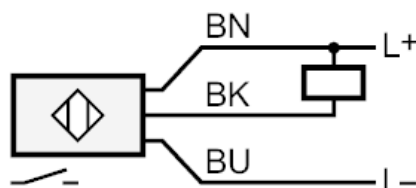
## Inductive sensor

IFB3002-ANKG

### Electrical connection

Cable: 2 m, PVC; 3 x 0.34 mm<sup>2</sup>

### Connection



BN = Core colors :  
brown  
BU = blue  
BK = black