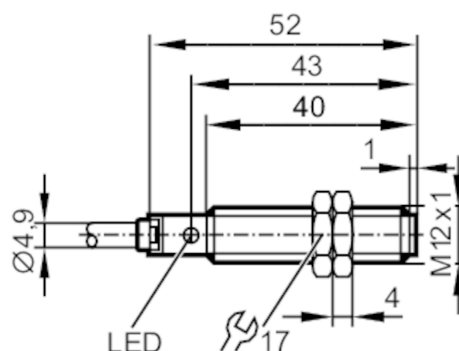




## Inductive sensor

IFK3003BBPKG/V4A



### Product characteristics

|                    |               |
|--------------------|---------------|
| Electrical design  | PNP           |
| Output function    | normally open |
| Sensing range [mm] | 3             |
| 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                                    | PNP           |
| Output function                                      | normally open |
| Max. voltage drop switching output DC [V]            | 2.5           |
| Permanent current rating of switching output DC [mA] | 200           |
| Switching frequency DC [Hz]                          | 400           |
| Short-circuit protection                             | yes           |
| Type of short-circuit protection                     | pulsed        |
| Overload protection                                  | yes           |

### Detection zone

|                               |               |
|-------------------------------|---------------|
| Sensing range [mm]            | 3             |
| Real sensing range $S_r$ [mm] | $3 \pm 10 \%$ |
| Operating distance [mm]       | 0...2.4       |

### Accuracy / deviations

|                                  |                                                                             |
|----------------------------------|-----------------------------------------------------------------------------|
| Correction factor                | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3 |
| Hysteresis [% of $S_r$ ]         | 3...15                                                                      |
| Switch point drift [% of $S_r$ ] | -10...10                                                                    |

# IF5837



## Inductive sensor

IFK3003BBPKG/V4A

| Operating conditions                      |                  |                                      |
|-------------------------------------------|------------------|--------------------------------------|
| Ambient temperature                       | [°C]             | -25...80                             |
| Protection                                |                  | IP 67                                |
| Tests / approvals                         |                  |                                      |
| EMC                                       | EN 60947-5-2     |                                      |
|                                           | EN 55011         | class B                              |
| MTTF                                      | [years]          | 1874                                 |
| Mechanical data                           |                  |                                      |
| Weight                                    | [g]              | 98.5                                 |
| Housing                                   |                  | threaded type                        |
| Mounting                                  |                  | flush mountable                      |
| Dimensions                                | [mm]             | M12 x 1                              |
| Thread designation                        |                  | M12 x 1                              |
| Materials                                 |                  | stainless steel (1.4571/316Ti ); PBT |
| Displays / operating elements             |                  |                                      |
| Display                                   | switching status | 1 x LED, yellow                      |
| Accessories                               |                  |                                      |
| Accessories (supplied)                    |                  | lock nuts: 2                         |
| Remarks                                   |                  |                                      |
| Pack quantity                             |                  | 1 pcs.                               |
| Electrical connection                     |                  |                                      |
| Cable: 2 m, PVC; 3 x 0.34 mm <sup>2</sup> |                  |                                      |
| Connection                                |                  |                                      |



Core colours :

BK = black  
BN = brown  
BU = blue