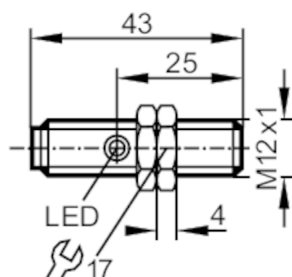


## Inductive sensor

IFB3002-APKG/US-100-DPO



## Product characteristics

|                    |                  |
|--------------------|------------------|
| Electrical design  | PNP              |
| Output function    | normally closed  |
| Sensing range [mm] | 2                |
| Housing            | threaded type    |
| Dimensions [mm]    | M12 x 1 / L = 43 |

## 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 closed |
| Max. voltage drop switching output DC [V]            | 2.5             |
| Permanent current rating of switching output DC [mA] | 150             |
| Switching frequency DC [Hz]                          | 1500            |
| Short-circuit protection                             | yes             |
| Type of short-circuit protection                     | pulsed          |
| Overload protection                                  | yes             |

## Detection zone

|                            |               |
|----------------------------|---------------|
| Sensing range [mm]         | 2             |
| Real sensing range Sr [mm] | $2 \pm 10 \%$ |
| Operating distance [mm]    | 0...1.6       |

## Accuracy / deviations

|                              |                                                                             |
|------------------------------|-----------------------------------------------------------------------------|
| Correction factor            | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2 |
| Hysteresis [% of Sr]         | 3...15                                                                      |
| Switch point drift [% of Sr] | -10...10                                                                    |

# IF5542



## Inductive sensor

IFB3002-APKG/US-100-DPO

### Operating conditions

|                     |      |          |
|---------------------|------|----------|
| Ambient temperature | [°C] | -25...80 |
| Protection          |      | IP 67    |

### Tests / approvals

|      |         |              |         |
|------|---------|--------------|---------|
| EMC  |         | EN 60947-5-2 |         |
|      |         | EN 55011     | class B |
| MTTF | [years] | 2531         |         |

### Mechanical data

|                    |      |                                             |
|--------------------|------|---------------------------------------------|
| Weight             | [g]  | 25.6                                        |
| Housing            |      | threaded type                               |
| Mounting           |      | flush mountable                             |
| Dimensions         | [mm] | M12 x 1 / L = 43                            |
| Thread designation |      | M12 x 1                                     |
| Materials          |      | brass white bronze coated; sensing face: PC |

### Displays / operating elements

|         |                  |                 |
|---------|------------------|-----------------|
| Display | switching status | 1 x LED, yellow |
|---------|------------------|-----------------|

### Accessories

|                        |              |
|------------------------|--------------|
| Accessories (supplied) | lock nuts: 2 |
|------------------------|--------------|

### Remarks

|               |        |
|---------------|--------|
| Pack quantity | 1 pcs. |
|---------------|--------|

### Electrical connection - plug

Connector: 1 x M12



### Connection

