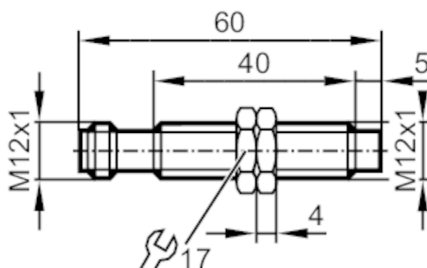


## Inductive sensor

IFK3004-BPKG/US-100



## Product characteristics

|                    |                  |
|--------------------|------------------|
| Electrical design  | PNP              |
| Output function    | normally open    |
| Sensing range [mm] | 4                |
| Housing            | threaded type    |
| Dimensions [mm]    | M12 x 1 / L = 60 |

## Application

|                 |                      |
|-----------------|----------------------|
| Special feature | Gold-plated contacts |
|-----------------|----------------------|

## Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...30 DC |
| Current consumption [mA]    | < 10       |
| Protection class            | II         |
| Reverse polarity protection | no         |

## Outputs

|                                                      |               |
|------------------------------------------------------|---------------|
| Electrical design                                    | PNP           |
| Output function                                      | normally open |
| Max. voltage drop switching output DC [V]            | 1             |
| Permanent current rating of switching output DC [mA] | 200           |
| Switching frequency DC [Hz]                          | 300           |
| Short-circuit protection                             | yes           |
| Overload protection                                  | yes           |

## Detection zone

|                               |               |
|-------------------------------|---------------|
| Sensing range [mm]            | 4             |
| Real sensing range $S_r$ [mm] | $4 \pm 10 \%$ |
| Operating distance [mm]       | 0...3.24      |

## 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                                                                    |

## Operating conditions

|                          |          |
|--------------------------|----------|
| Ambient temperature [°C] | -25...80 |
|--------------------------|----------|

IF5493



Inductive sensor

IFK3004-BPKG/US-100

|            |       |
|------------|-------|
| Protection | IP 67 |
|------------|-------|

Tests / approvals

|                            |              |         |
|----------------------------|--------------|---------|
| EMC                        | EN 60947-5-2 |         |
|                            | EN 55011     | class B |
| MTTF [years]               | 1349         |         |
| Embedded software included | no           |         |

Mechanical data

|                    |                                                                                                    |
|--------------------|----------------------------------------------------------------------------------------------------|
| Weight [g]         | 27.3                                                                                               |
| Housing            | threaded type                                                                                      |
| Mounting           | non-flush mountable                                                                                |
| Dimensions [mm]    | M12 x 1 / L = 60                                                                                   |
| Thread designation | M12 x 1                                                                                            |
| Materials          | housing: brass white bronze coated; sensing face: PBT orange; lock nuts: brass white bronze coated |

Accessories

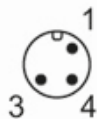
|                |              |
|----------------|--------------|
| Items supplied | lock nuts: 2 |
|----------------|--------------|

Remarks

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

Electrical connection - plug

Connector: 1 x M12; coding: A; Contacts: gold-plated



Connection

