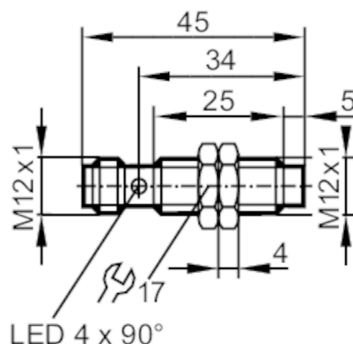


# IF5928



## Inductive sensor

IFB3004-BPKG/US-104



### Product characteristics

|                    |                  |
|--------------------|------------------|
| Electrical design  | PNP              |
| Output function    | normally open    |
| Sensing range [mm] | 4                |
| Housing            | threaded type    |
| Dimensions [mm]    | M12 x 1 / L = 45 |

### Application

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

### Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...30 DC |
| Current consumption [mA]    | < 10       |
| 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] | 200           |
| Switching frequency DC [Hz]                          | 1400          |
| 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 [X01]         | 3...15                                                                      |
| Switch point drift [X01] | -10...10                                                                    |

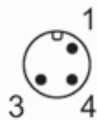
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Inductive sensor

IFB3004-BPKG/US-104

| Operating conditions                                 |                  |                                                                                                                        |
|------------------------------------------------------|------------------|------------------------------------------------------------------------------------------------------------------------|
| Ambient temperature                                  | [°C]             | -25...80                                                                                                               |
| Protection                                           |                  | IP 67                                                                                                                  |
| Tests / approvals                                    |                  |                                                                                                                        |
| EMC                                                  | EN 60947-5-2     |                                                                                                                        |
|                                                      | EN 55011         | class B                                                                                                                |
| MTTF                                                 | [ANN]            | 1083                                                                                                                   |
| Embedded software included                           |                  | no                                                                                                                     |
| Mechanical data                                      |                  |                                                                                                                        |
| Weight                                               | [g]              | 24.2                                                                                                                   |
| Housing                                              |                  | threaded type                                                                                                          |
| Mounting                                             |                  | non-flush mountable                                                                                                    |
| Dimensions                                           | [mm]             | M12 x 1 / L = 45                                                                                                       |
| Thread designation                                   |                  | M12 x 1                                                                                                                |
| Materials                                            |                  | housing: brass white bronze coated; sensing face: PBT orange;<br>LED window: PEI; lock nuts: brass white bronze coated |
| Displays / operating elements                        |                  |                                                                                                                        |
| Display                                              | switching status | 4 x LED, yellow                                                                                                        |
| Аксессуары                                           |                  |                                                                                                                        |
| Items supplied                                       |                  | lock nuts: 2                                                                                                           |
| Remarks                                              |                  |                                                                                                                        |
| Pack quantity                                        |                  | 1 pcs.                                                                                                                 |
| Electrical connection - plug                         |                  |                                                                                                                        |
| Connector: 1 x M12; coding: A; Contacts: gold-plated |                  |                                                                                                                        |



Connection

