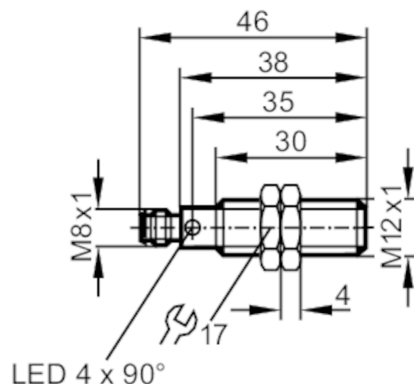


# IFS210



## Inductive sensor

IFB3004BBPKG/M/AS-514-TPS



### Product characteristics

|                    |                  |
|--------------------|------------------|
| Electrical design  | PNP              |
| Output function    | normally open    |
| Sensing range [mm] | 4                |
| Housing            | Threaded type    |
| Dimensions [mm]    | M12 x 1 / L = 46 |

### Application

|             |                                               |
|-------------|-----------------------------------------------|
| System      | gold-plated contacts; Increased sensing range |
| Application | Industrial applications                       |

### Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...36 DC |
| Current consumption [mA]    | 10; (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] | 100                |
| Switching frequency DC [Hz]                          | 700                |
| Short-circuit protection                             | yes                |
| Type of short-circuit protection                     | yes (non-latching) |
| Overload protection                                  | yes                |

### Monitoring range

|                               |               |
|-------------------------------|---------------|
| Sensing range [mm]            | 4             |
| Real sensing range $S_r$ [mm] | $4 \pm 10 \%$ |
| Operating distance [mm]       | 0...3.25      |

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|                         |     |
|-------------------------|-----|
| Increased sensing range | yes |
|-------------------------|-----|

### Accuracy / deviations

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

### Operating conditions

|                     |                        |          |
|---------------------|------------------------|----------|
| Ambient temperature | [°C]                   | -25...70 |
| Protection          | IP 67; (if screwed on) |          |

### Tests / approvals

|             |                           |                   |
|-------------|---------------------------|-------------------|
| EMC         | EN 61000-4-2 ESD          | 4 kV CD / 8 kV AD |
|             | EN 61000-4-3 HF radiated  | 10 V/m            |
|             | EN 61000-4-4 Burst        | 2 kV              |
|             | EN 61000-4-6 HF conducted | 10 V              |
|             | EN 55011                  | class B           |
| MTTF        | [years]                   | 2017              |
| UL approval | Ta                        | -25...70 °C       |
|             | Enclosure type            | Type 1            |
|             | voltage supply            | Class 2           |
|             | File number UL            | E174191           |

### Mechanical data

|                    |                                              |                  |
|--------------------|----------------------------------------------|------------------|
| Weight             | [g]                                          | 27.9             |
| Housing            | Threaded type                                |                  |
| Mounting           | flush mountable                              |                  |
| Dimensions         | [mm]                                         | M12 x 1 / L = 46 |
| Thread designation | M12 x 1                                      |                  |
| Material           | brass white bronze coated; sensing face: PBT |                  |

### Displays / operating elements

|         |                  |                     |
|---------|------------------|---------------------|
| Display | Switching status | 4 x 90° LED, yellow |
|---------|------------------|---------------------|

### Accessories

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

### Remarks

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

### Electrical connection - plug

Connector: 1 x M8; coding: A; Contacts: gold-plated



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### Connection

