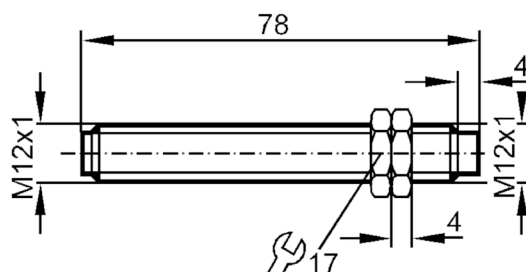


## Inductive sensor

IFA3004UBPKG/US-100-DPS

Article no longer available - archive entry



## Product characteristics

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

## Application

|                       |                       |
|-----------------------|-----------------------|
| Special feature       | Magnetic-field immune |
| Magnetic-field immune | yes                   |

## Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...36 DC |
| Current consumption [mA]    | 15; (24 V) |
| Reverse polarity protection | yes        |

## Outputs

|                                                      |               |
|------------------------------------------------------|---------------|
| Electrical design                                    | PNP           |
| Output function                                      | normally open |
| Max. voltage drop switching output DC [V]            | 1.5           |
| Permanent current rating of switching output DC [mA] | 250           |
| Switching frequency DC [Hz]                          | 1400          |
| Short-circuit protection                             | yes           |
| Type of short-circuit protection                     | pulsed        |

# IF5797



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|                     |     |
|---------------------|-----|
| Overload protection | yes |
|---------------------|-----|

### Detection zone

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

### Accuracy / deviations

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

### Operating conditions

|                     |      |          |
|---------------------|------|----------|
| Ambient temperature | [°C] | -25...70 |
| Protection          |      | IP 65    |

### Tests / approvals

|     |              |         |
|-----|--------------|---------|
| EMC | EN 60947-5-2 |         |
|     | EN 55011     | class B |

### Mechanical data

|                    |      |                          |
|--------------------|------|--------------------------|
| Housing            |      | threaded type            |
| Mounting           |      | non-flush mountable      |
| Dimensions         | [mm] | M12 x 1                  |
| Thread designation |      | M12 x 1                  |
| Materials          |      | brass nickel-plated; PBT |

### Accessories

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

### Remarks

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

### Electrical connection - plug

Connector: 1 x M12; coding: A



# IF5797



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### Connection

