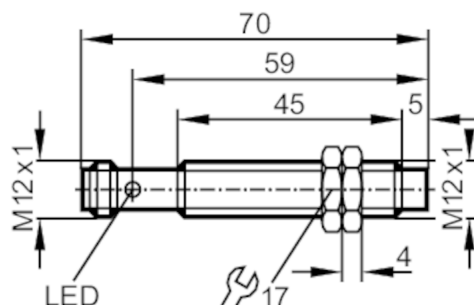




## Inductive sensor

IFKC004-ASKG/M/V4A/US-104-DRS

Status Archive



## Electrical data

|                             |      |                                  |
|-----------------------------|------|----------------------------------|
| Operating voltage           | [V]  | 10...36 DC                       |
| Current consumption         | [mA] | < 10; (only in 3-wire operation) |
| Protection class            |      | II                               |
| Reverse polarity protection |      | yes                              |

## Outputs

|                                                 |      |                                 |
|-------------------------------------------------|------|---------------------------------|
| Electrical design                               |      | PNP/NPN                         |
| Output function                                 |      | normally open                   |
| Max. voltage drop switching output DC           | [V]  | 2.5                             |
| Minimum load current                            | [mA] | 2; (only in 2-wire operation)   |
| Max. leakage current                            | [mA] | 0.6; (only in 2-wire operation) |
| Permanent current rating of switching output DC | [mA] | 100                             |
| Switching frequency DC                          | [Hz] | 700                             |
| Short-circuit protection                        |      | yes                             |
| Type of short-circuit protection                |      | pulsed                          |
| 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: 0.4 / copper: 0.3 |
| Hysteresis         | [% of $S_r$ ] | 1...20                                                                      |
| Switch point drift | [% of $S_r$ ] | -10...10                                                                    |

## Operating conditions

|                     |      |               |
|---------------------|------|---------------|
| Ambient temperature | [°C] | 0...100       |
| Protection          |      | IP 68; IP 69K |



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## 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 61000-4-5 Surge        | 0,5 kV line to line, Ri: 2 Ohm |
|      | EN 61000-4-6 HF conducted | 10 V                           |
|      | EN 55011                  | class B                        |
| MTTF | [years]                   | 2330                           |

## Mechanical data

|                    |      |                                                     |
|--------------------|------|-----------------------------------------------------|
| Weight             | [g]  | 35.1                                                |
| Housing            |      | threaded type                                       |
| Mounting           |      | non-flush mountable                                 |
| Dimensions         | [mm] | M12 x 1 / L = 70                                    |
| Thread designation |      | M12 x 1                                             |
| Materials          |      | stainless steel (1.4404 / 316L); sensing face: PEEK |

## Displays / operating elements

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

## Accessories

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

## Remarks

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

## Electrical connection - plug

Connector: 1 x M12; Contacts: gold-plated

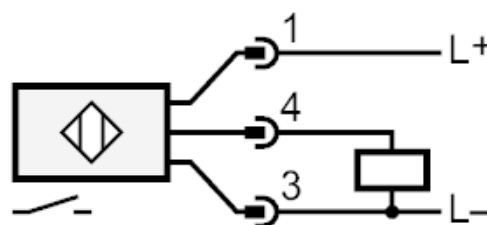
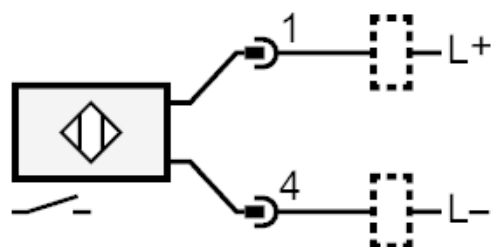




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### 2-wire



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