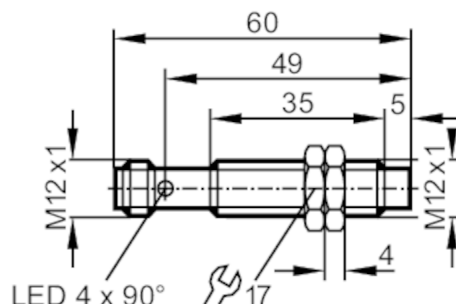




## Inductive AS-Interface sensor

IFK2007-ASI /M/US-104



### Electrical data

|                             |      |                |
|-----------------------------|------|----------------|
| Operating voltage           | [V]  | 26.5...31.6 DC |
| Current consumption         | [mA] | < 30           |
| Protection class            |      | III            |
| Reverse polarity protection |      | yes            |
| Max. power-on delay time    | [ms] | 1000           |

### Outputs

|                        |      |      |
|------------------------|------|------|
| Electrical design      |      | AS-i |
| Switching frequency DC | [Hz] | 100  |

### Detection zone

|                       |      |          |
|-----------------------|------|----------|
| Sensing range         | [mm] | 7        |
| Real sensing range Sr | [mm] | 7 ± 10 % |
| Operating distance    | [mm] | 0...5.7  |

### Accuracy / deviations

|                    |           |                                                                             |
|--------------------|-----------|-----------------------------------------------------------------------------|
| Correction factor  |           | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.5 / copper: 0.4 |
| Hysteresis         | [% of Sr] | 1...20                                                                      |
| Switch point drift | [% of Sr] | -10...10                                                                    |

### Operating conditions

|                     |      |                    |
|---------------------|------|--------------------|
| Ambient temperature | [°C] | -25...70           |
| Protection          |      | IP 68; ("Coolant") |

### 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]                   | 1679                    |
| UL approval | Ta                        | -25...70 °C             |
|             | Enclosure type            | Type 1                  |
|             | voltage supply            | Limited Voltage/Current |
|             | File number UL            | E174191                 |



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| AS-i classification                                                                            |                                                               |                                |                     |               |               |
|------------------------------------------------------------------------------------------------|---------------------------------------------------------------|--------------------------------|---------------------|---------------|---------------|
| AS-i version                                                                                   | 2.1                                                           |                                |                     |               |               |
| Extended addressing mode possible                                                              | yes                                                           |                                |                     |               |               |
| AS-i I/O configuration                                                                         | [hex]                                                         | 0                              |                     |               |               |
| AS-i ID code                                                                                   | [hex]                                                         | A.F                            |                     |               |               |
| AS-i certificate                                                                               | 57101                                                         |                                |                     |               |               |
| Assignment of the data bits                                                                    | Designation                                                   | switching signal               | not used            | not used      | not used      |
|                                                                                                | status = 0                                                    | target outside the active zone | -                   | -             | -             |
|                                                                                                | status = 1                                                    | target within the active zone  | default value       | default value | default value |
| Mechanical data                                                                                |                                                               |                                |                     |               |               |
| Weight                                                                                         | [g]                                                           | 28.2                           |                     |               |               |
| Housing                                                                                        | threaded type                                                 |                                |                     |               |               |
| Mounting                                                                                       | non-flush mountable                                           |                                |                     |               |               |
| Dimensions                                                                                     | [mm]                                                          | M12 x 1 / L = 60               |                     |               |               |
| Thread designation                                                                             | M12 x 1                                                       |                                |                     |               |               |
| Materials                                                                                      | stainless steel (1.4404 / 316L); sensing face: LCP uncoloured |                                |                     |               |               |
| Displays / operating elements                                                                  |                                                               |                                |                     |               |               |
| Display                                                                                        | switching status                                              |                                | 4 x 90° LED, yellow |               |               |
|                                                                                                | function                                                      |                                | 1 x LED, red        |               |               |
| Accessories                                                                                    |                                                               |                                |                     |               |               |
| Accessories (supplied)                                                                         | lock nuts: 2                                                  |                                |                     |               |               |
| Remarks                                                                                        |                                                               |                                |                     |               |               |
| Pack quantity                                                                                  | 1 pcs.                                                        |                                |                     |               |               |
| Electrical connection - plug                                                                   |                                                               |                                |                     |               |               |
| Connector: 1 x M12; Contacts: gold-plated                                                      |                                                               |                                |                     |               |               |
| <div></div> |                                                               |                                |                     |               |               |

# IFC248



## Inductive AS-Interface sensor

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### Connection

