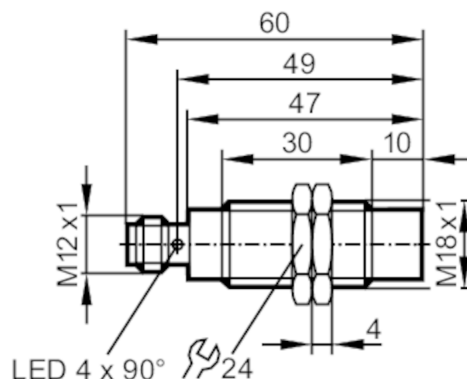




## Inductive AS-Interface sensor

IGK2012-ASI /M/US-104



### Product characteristics

|                   |      |                  |
|-------------------|------|------------------|
| Electrical design |      | AS-i             |
| Sensing range     | [mm] | 12               |
| Housing           |      | Threaded type    |
| Dimensions        | [mm] | M18 x 1 / L = 60 |

### Application

|             |  |                      |
|-------------|--|----------------------|
| System      |  | gold-plated contacts |
| Application |  | Oils and coolants    |

### 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  |

### Monitoring range

|                       |      |           |
|-----------------------|------|-----------|
| Sensing range         | [mm] | 12        |
| Real sensing range Sr | [mm] | 12 ± 10 % |
| Operating distance    | [mm] | 0...9.7   |

### Accuracy / deviations

|                    |           |                                                                              |
|--------------------|-----------|------------------------------------------------------------------------------|
| Correction factor  |           | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.45 / copper: 0.35 |
| Hysteresis         | [% of Sr] | 1...20                                                                       |
| Switch-point drift | [% of Sr] | -10...10                                                                     |

### Operating conditions

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



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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 61000-4-6 HF conducted | 10 V                    |
|                   | EN 55011                  | class B                 |
| MTTF              | [years]                   | 1565                    |
| UL approval       | Ta                        | -25...70 °C             |
|                   | Enclosure type            | Type 1                  |
|                   | voltage supply            | Limited Voltage/Current |
|                   | File number UL            | E174191                 |

| AS-i classification      |             |                                |               |               |               |
|--------------------------|-------------|--------------------------------|---------------|---------------|---------------|
| AS-i version             |             | 2.1                            |               |               |               |
| Extended addressing mode |             | yes                            |               |               |               |
| AS-i I/O configuration   |             | [hex]                          | 0             |               |               |
| AS-i ID code             |             | [hex]                          | A.F           |               |               |
| AS-i certificate         |             | 57301                          |               |               |               |
| Data bits                | Description | 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] 46.4                                                                                           |
| Housing            | Threaded type                                                                                      |
| Mounting           | non-flush mountable                                                                                |
| Dimensions         | [mm] M18 x 1 / L = 60                                                                              |
| Thread designation | M18 x 1                                                                                            |
| Material           | threaded sleeve: stainless steel (1.4404 / 316L);<br>sensing face: LCP uncolored; lock nuts: brass |

| Displays / operating elements |                  |                     |
|-------------------------------|------------------|---------------------|
| Display                       | Switching status | 4 x 90° LED, yellow |
|                               | Function         | 1 x LED, red        |

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

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

## Electrical connection - plug

Connector: 1 x M12; coding: A; Contacts: gold-plated





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### Connection

