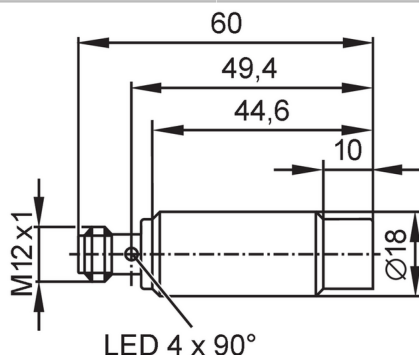




## Inductive sensor

IGGC012-ASKG/2LED/V4A/US-104



### Product characteristics

|                    |               |
|--------------------|---------------|
| Electrical design  | PNP/NPN       |
| Output function    | normally open |
| Sensing range [mm] | 12            |
| Housing            | tubular       |
| Dimensions [mm]    | Ø 18 / L = 70 |

### Application

|                 |                                                                    |
|-----------------|--------------------------------------------------------------------|
| Special feature | gold-plated contacts; Increased sensing range; optical setting aid |
| Application     | Use in hygienic areas / regular cleaning processes                 |

### Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...30 DC |
| Current consumption [mA]    | < 15       |
| Protection class            | II         |
| Reverse polarity protection | yes        |

### Outputs

|                                                      |                               |
|------------------------------------------------------|-------------------------------|
| Electrical design                                    | PNP/NPN                       |
| Output function                                      | normally open                 |
| Max. voltage drop switching output DC [V]            | 2.8                           |
| Minimum load current [mA]                            | 2; (only in 2-wire operation) |
| Max. leakage current [mA]                            | 0.6                           |
| Permanent current rating of switching output DC [mA] | 100                           |
| Switching frequency DC [Hz]                          | 300                           |
| Short-circuit protection                             | yes                           |
| Type of short-circuit protection                     | yes (non-latching)            |
| Overload protection                                  | yes                           |

### Monitoring range

|                            |           |
|----------------------------|-----------|
| Sensing range [mm]         | 12        |
| Real sensing range Sr [mm] | 12 ± 10 % |
| Operating distance [mm]    | 0...9.72  |
| Increased sensing range    | yes       |



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| Accuracy / deviations                                                               |                           |                                                                                                                                   |
|-------------------------------------------------------------------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Correction factor                                                                   |                           | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.4 / copper: 0.3                                                        |
| Hysteresis                                                                          | [% of Sr]                 | 1...20                                                                                                                            |
| Switch-point drift                                                                  | [% of Sr]                 | -10...10                                                                                                                          |
| Operating conditions                                                                |                           |                                                                                                                                   |
| Ambient temperature                                                                 |                           | [°C] 0...100                                                                                                                      |
| Protection                                                                          |                           | IP 68; IP 69K                                                                                                                     |
| 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 mains line to line                                                                                                         |
|                                                                                     | EN 61000-4-6 HF conducted | 10 V                                                                                                                              |
|                                                                                     | EN 55011                  | class B                                                                                                                           |
| MTTF                                                                                | [years]                   | 1058                                                                                                                              |
| UL approval                                                                         | Ta                        | 0...40 °C                                                                                                                         |
|                                                                                     | Enclosure type            | Type 1                                                                                                                            |
|                                                                                     | voltage supply            | Limited Voltage/Current                                                                                                           |
|                                                                                     | UL approval number        | A039                                                                                                                              |
|                                                                                     | File number UL            | E174191                                                                                                                           |
| Mechanical data                                                                     |                           |                                                                                                                                   |
| Weight                                                                              | [g]                       | 42.1                                                                                                                              |
| Housing                                                                             |                           | tubular                                                                                                                           |
| Mounting                                                                            |                           | non-flush mountable                                                                                                               |
| Dimensions                                                                          | [mm]                      | Ø 18 / L = 70                                                                                                                     |
| Material                                                                            |                           | housing: stainless steel (1.4404 / 316L); sensing face: PEEK natural; LED window: PEI; lock nuts: stainless steel (1.4404 / 316L) |
| Tightening torque                                                                   | [Nm]                      | 50                                                                                                                                |
| Displays / operating elements                                                       |                           |                                                                                                                                   |
| Display                                                                             | Switching status          | 4 x 90° LED, yellow                                                                                                               |
|                                                                                     | Setting aid               | 1 x LED, red                                                                                                                      |
| Optical setting aid                                                                 |                           | yes                                                                                                                               |
| Remarks                                                                             |                           |                                                                                                                                   |
| Remarks                                                                             |                           | suitable for PLC type 1 according to IEC 61131-2                                                                                  |
| Pack quantity                                                                       |                           | 1 pcs.                                                                                                                            |
| Electrical connection - plug                                                        |                           |                                                                                                                                   |
| Connector: 1 x M12; coding: A; Contacts: 3, gold-plated                             |                           |                                                                                                                                   |
|  |                           |                                                                                                                                   |



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### Connection

