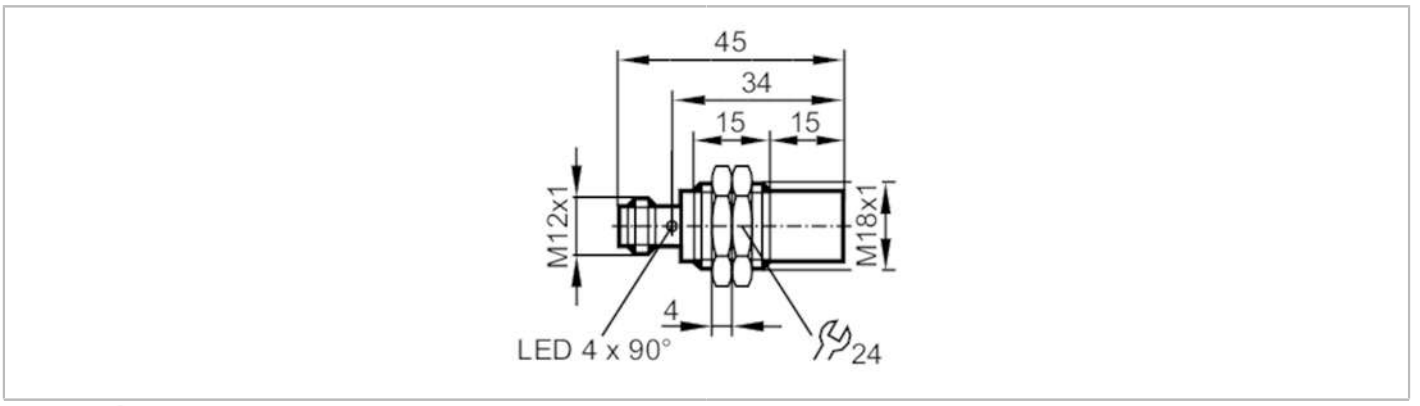
# IGT262

## Inductive full-metal sensor

IGB3012-BPKG/AM/P/US-104




EC 1935/2004

| | | |
|---|---|---|
| **Product characteristics** | | |
| Electrical design | | PNP |
| Output function | | normally open |
| Sensing range | [mm] | 12 |
| Dimensions | [mm] | M18 x 1 / L = 45 |
| **Application** | | |
| Special feature | | Gold-plated contacts; Increased sensing range |
| Application | | constant cleaning with aggressive cleaning agents; regular cleaning processes |
| Pressure rating | [bar] | 100 |
| Note on pressure rating | | sensing face |
| **Electrical data** | | |
| Operating voltage | [V] | 10...30 DC |
| Current consumption | [mA] | < 20 |
| Protection class | | III |
| Reverse polarity protection | | yes |
| **Outputs** | | |
| Electrical design | | PNP |
| Output function | | normally open |
| Max. voltage drop switching output DC | [V] | 2.5 |
| Permanent current rating of switching output DC | [mA] | 100 |
| Switching frequency DC | [Hz] | 250 |
| Short-circuit protection | | yes |
| Overload protection | | yes |
| **Detection zone** | | |
| Sensing range | [mm] | 12 |
| Real sensing range Sr | [mm] | 12 ± 10 % |
| Operating distance | [mm] | 0...9.72 |
| Increased sensing range | | yes |
| **Accuracy / deviations** | | |
| Correction factor | | steel: 1 / stainless steel: 1 / brass: 0.9 / aluminium: 0.8 / copper: 0.5 |

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| | | | |
|---|---|---|---|
| Hysteresis | [% of Sr] | 3...15 | |
| Switch point drift | [% of Sr] | -10...10 | |
| **Operating conditions** | | | |
| Ambient temperature | [°C] | 0...100 | |
| Protection | | IP 65; IP 66; IP 67; 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 61000-4-6 HF conducted | 10 V |
| | | EN 55011 | class B |
| Impact resistance | | | 1 J |
| Vibration resistance | | EN 60068-2-6 Fc | 20 g (10...3000 Hz) / 50 sweep cycles, 1 octave per minute, in 3 axes |
| Shock resistance | | EN 60068-2-27 Ea | 100 g 11 ms half-sine; 3 shocks each in every direction of the 3 coordinate axes |
| Continuous shock resistance | | EN 60068-2-27 | 40 g 6 ms; 4000 shocks each in every direction of the 3 coordinate axes |
| Fast temperature change | | EN 60068-2-14 Nc | TA = 0°C; TB = 100°C; t1 = 30 min; t2 = < 10 s 50 cycles |
| MTTF | [years] | 1386 | |
| Embedded software included | | yes | |
| UL approval | | Ta | 0...70 °C |
| | | Enclosure type | Type 1 |
| | | power supply | Limited Voltage/Current |
| | | UL Approval no. | A012 |
| | | File number UL | E174191 |
| **Mechanical data** | | | |
| Weight | [g] | 38.6 | |
| Mounting | | non-flush mountable | |
| Dimensions | [mm] | M18 x 1 / L = 45 | |
| Thread designation | | M18 x 1 | |
| Materials | | stainless steel (1.4404 / 316L); sensing face: stainless steel (1.4404 / 316L); LED window: PEI; lock nuts: stainless steel (1.4404 / 316L) | |
| Tightening torque | [Nm] | 50 | |
| **Displays / operating elements** | | | |
| Display | | switching status | 4 x LED, yellow |
| **Accessories** | | | |
| Items supplied | | lock nuts: 2 | |
| **Remarks** | | | |
| Pack quantity | | 1 pcs. | |

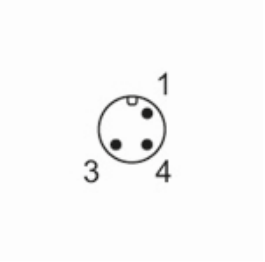
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## Inductive full-metal sensor

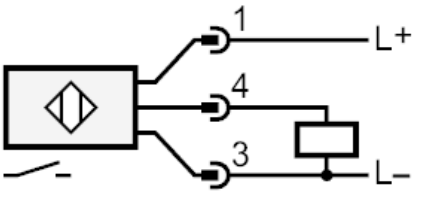
IGB3012-BPKG/AM/P/US-104

## Electrical connection

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




### Connection




## Diagrams and graphs

