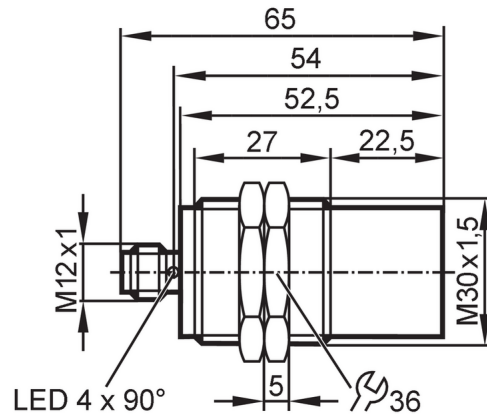




Inductive full-metal sensor

IIK3025-BPKG/AM/P/US



| Product characteristics | |
|--|---|
| Electrical design | PNP |
| Output function | normally open |
| Sensing range [mm] | 25 |
| Housing | threaded type |
| Dimensions [mm] | M30 x 1.5 / L = 65 |
| Application | |
| Special feature | Gold-plated contacts; Increased sensing range; Full-metal housing |
| Application | Use in hygienic areas / regular cleaning processes |
| Pressure rating | 100 bar / 10 MPa |
| Note on pressure rating | sensing face |
| Electrical data | |
| Operating voltage [V] | 10...30 DC |
| Current consumption [mA] | < 25 |
| 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] | 100 |
| Short-circuit protection | yes |
| Overload protection | yes |
| Detection zone | |
| Sensing range [mm] | 25 |
| Real sensing range Sr [mm] | 25 ± 10 % |
| Operating distance [mm] | 0...20.3 |
| Increased sensing range | yes |



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| Accuracy / deviations | | |
|--|---|-------------------------|
| Correction factor | steel: 1 / stainless steel: 1 / brass: 0.9 / aluminium: 0.6 / copper: 0.5 | |
| Hysteresis [% of Sr] | 1...20 | |
| Switch point drift [% of Sr] | -10...10 | |
| Operating conditions | | |
| Ambient temperature [°C] | 0...100 | |
| Protection | IP 65; 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 emission | class B |
| Impact resistance | EN 60068-2-75 Ehc | 1 J |
| MTTF [years] | 1262 | |
| 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] | 165.043 | |
| Housing | threaded type | |
| Mounting | non-flush mountable | |
| Dimensions [mm] | M30 x 1.5 / L = 65 | |
| Thread designation | M30 x 1.5 | |
| Materials | housing: stainless steel (316L/1.4404); sensing face: stainless steel (316L/1.4404); lock nuts: stainless steel (316L/1.4404) | |
| Tightening torque [Nm] | 80 | |
| Full-metal housing | yes | |
| Displays / operating elements | | |
| Display | switching status | 4 x 90° LED, yellow |
| Accessories | | |
| Items supplied | lock nuts: 2 | |
| Remarks | | |
| Pack quantity | 1 pcs. | |
| Electrical connection - plug | | |
| Connector: 1 x M12; coding: A; Contacts: gold-plated | | |
| | | |



Inductive full-metal sensor

IHK3025-BPKG/AM/P/US

Connection



Diagrams and graphs

