



Inductive sensor

IIK3015BBPKG/V4A/US-104



| Product characteristics                         |      |                       |
|-------------------------------------------------|------|-----------------------|
| Electrical design                               |      | PNP                   |
| Output function                                 |      | normally open         |
| Sensing range                                   | [mm] | 15                    |
| Housing                                         |      | Threaded type         |
| Dimensions                                      | [mm] | M30 x 1.5 / L = 70    |
| Application                                     |      |                       |
| System                                          |      | gold-plated contacts  |
| Application                                     |      | Washdown applications |
| Electrical data                                 |      |                       |
| Operating voltage                               | [V]  | 10...30 DC            |
| Current consumption                             | [mA] | 10                    |
| Protection class                                |      | II                    |
| 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                   |
| Type of short-circuit protection                |      | yes (non-latching)    |
| Overload protection                             |      | yes                   |
| Monitoring range                                |      |                       |
| Sensing range                                   | [mm] | 15                    |
| Real sensing range Sr                           | [mm] | 15 ± 10 %             |
| Operating distance                              | [mm] | 0...12.15             |



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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                  |
|                                                                                                | EN 61000-4-6 HF conducted                                                                                                         | 10 V                    |
|                                                                                                | EN 55011                                                                                                                          | class B                 |
| MTTF                                                                                           | [years]                                                                                                                           | 1134                    |
| UL approval                                                                                    | Ta                                                                                                                                | 0...40 °C               |
|                                                                                                | Enclosure type                                                                                                                    | Type 1                  |
|                                                                                                | voltage supply                                                                                                                    | Limited Voltage/Current |
|                                                                                                | UL approval number                                                                                                                | A001                    |
|                                                                                                | File number UL                                                                                                                    | E174191                 |
| Mechanical data                                                                                |                                                                                                                                   |                         |
| Weight                                                                                         | [g]                                                                                                                               | 121.8                   |
| Housing                                                                                        | Threaded type                                                                                                                     |                         |
| Mounting                                                                                       | flush mountable                                                                                                                   |                         |
| Dimensions                                                                                     | [mm]                                                                                                                              | M30 x 1.5 / L = 70      |
| Thread designation                                                                             | M30 x 1.5                                                                                                                         |                         |
| Material                                                                                       | housing: stainless steel (1.4404 / 316L); sensing face: PEEK natural; LED window: PEI; lock nuts: stainless steel (1.4404 / 316L) |                         |
| Tightening torque                                                                              | [Nm]                                                                                                                              | 80                      |
| Displays / operating elements                                                                  |                                                                                                                                   |                         |
| Display                                                                                        | Switching status                                                                                                                  | 4 x 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                                           |                                                                                                                                   |                         |
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### Connection

