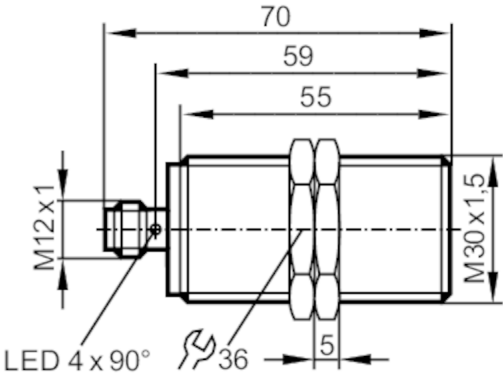


# IIS210



## Inductive sensor

IIK3015BBPKG/US-104



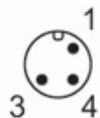
| Product characteristics                         |      |                         |
|-------------------------------------------------|------|-------------------------|
| Electrical design                               |      | PNP                     |
| Output function                                 |      | normally open           |
| Sensing range                                   | [mm] | 15                      |
| Housing                                         |      | Threaded type           |
| Dimensions                                      | [mm] | M30 x 1.5 / L = 70      |
| Application                                     |      |                         |
| System                                          |      | gold-plated contacts    |
| Application                                     |      | Industrial 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]                                                                       | -25...70                                                                                                                  |
| Protection                                                                          |                                                                            | IP 67                                                                                                                     |
| 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]                                                                        | 126.5                                                                                                                     |
| 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: PBT orange; LED window: PEI; lock nuts: brass white bronze coated |
| 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

