

# II501A



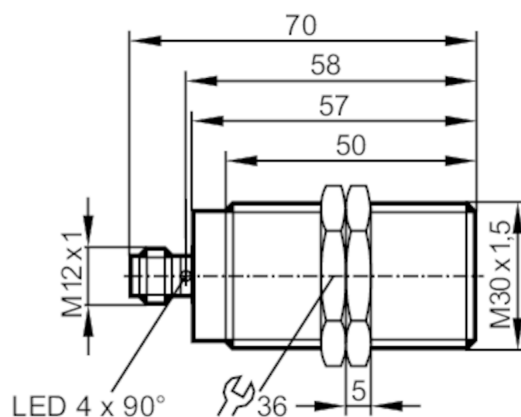
## Inductive full-metal sensor

IIK3010-BPKG/AM/US104DPS/3G/3D

Article no longer available - archive entry

Alternative articles: II502A

When selecting an alternative article and accessories please note that technical data may differ!



### Product characteristics

|                    |                    |
|--------------------|--------------------|
| Electrical design  | PNP                |
| Output function    | normally open      |
| Sensing range [mm] | 10                 |
| Housing            | Threaded type      |
| Dimensions [mm]    | M30 x 1.5 / L = 70 |

### Application

|        |                                          |
|--------|------------------------------------------|
| System | gold-plated contacts; Full-metal housing |
|--------|------------------------------------------|

### Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...36 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]                          | 50                 |
| Short-circuit protection                             | yes                |
| Type of short-circuit protection                     | yes (non-latching) |
| Overload protection                                  | yes                |

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| Monitoring range                                                                    |                           |                                                                                                                |
|-------------------------------------------------------------------------------------|---------------------------|----------------------------------------------------------------------------------------------------------------|
| Sensing range                                                                       | [mm]                      | 10                                                                                                             |
| Operating distance                                                                  | [mm]                      | 0...8.1                                                                                                        |
| Accuracy / deviations                                                               |                           |                                                                                                                |
| Correction factor                                                                   |                           | steel: 1 / stainless steel: 0.7                                                                                |
| Hysteresis                                                                          | [% of Sr]                 | 1...20                                                                                                         |
| Operating conditions                                                                |                           |                                                                                                                |
| Ambient temperature                                                                 | [°C]                      | 0...60                                                                                                         |
| Protection                                                                          |                           | IP 67                                                                                                          |
| Tests / approvals                                                                   |                           |                                                                                                                |
| ATEX marking                                                                        |                           |  II 3G Ex nA II T6 X          |
|                                                                                     |                           |  II 3D Ex tD A22 IP67 T80°C X |
| 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                                                                                                        |
| Mechanical data                                                                     |                           |                                                                                                                |
| Weight                                                                              | [g]                       | 0.161                                                                                                          |
| Housing                                                                             |                           | Threaded type                                                                                                  |
| Mounting                                                                            |                           | flush mountable                                                                                                |
| Dimensions                                                                          | [mm]                      | M30 x 1.5 / L = 70                                                                                             |
| Thread designation                                                                  |                           | M30 x 1.5                                                                                                      |
| Material                                                                            |                           | housing: stainless steel; sensing face: stainless steel; LED window: PEI                                       |
| 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                                |                           |                                                                                                                |
|  |                           |                                                                                                                |

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### Connection

