



Inductive sensor

IIB3010-ANKG/US-100-DNS



| Product characteristics                         |      |                       |
|-------------------------------------------------|------|-----------------------|
| Electrical design                               |      | NPN                   |
| Output function                                 |      | normally open         |
| Sensing range                                   | [mm] | 10                    |
| Housing                                         |      | threaded type         |
| Dimensions                                      | [mm] | M30 x 1.5             |
| Electrical data                                 |      |                       |
| Operating voltage                               | [V]  | 18...36 DC            |
| Current consumption                             | [mA] | 15; (24 V)            |
| Protection class                                |      | III                   |
| Reverse polarity protection                     |      | yes                   |
| Outputs                                         |      |                       |
| Electrical design                               |      | NPN                   |
| Output function                                 |      | normally open         |
| Max. voltage drop switching output DC           | [V]  | 2.5                   |
| Permanent current rating of switching output DC | [mA] | 125; (150 (...50 °C)) |
| Switching frequency DC                          | [Hz] | 300                   |
| Short-circuit protection                        |      | yes                   |



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|                                  |        |
|----------------------------------|--------|
| Type of short-circuit protection | pulsed |
| Overload protection              | yes    |

| Detection zone                |                |
|-------------------------------|----------------|
| Sensing range [mm]            | 10             |
| Real sensing range $S_r$ [mm] | $10 \pm 10 \%$ |
| Operating distance [mm]       | 0...8.1        |

| Accuracy / deviations            |                                                                             |
|----------------------------------|-----------------------------------------------------------------------------|
| Correction factor                | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2 |
| Hysteresis [% of $S_r$ ]         | 1...15                                                                      |
| Switch point drift [% of $S_r$ ] | -10...10                                                                    |

| Operating conditions     |          |
|--------------------------|----------|
| Ambient temperature [°C] | -25...80 |
| Protection               | IP 67    |

| Tests / approvals |              |         |
|-------------------|--------------|---------|
| EMC               | EN 60947-5-2 |         |
|                   | EN 55011     | class B |
| MTTF [years]      | 901          |         |

| Mechanical data    |                          |
|--------------------|--------------------------|
| Weight [g]         | 135.5                    |
| Housing            | threaded type            |
| Mounting           | flush mountable          |
| Dimensions [mm]    | M30 x 1.5                |
| Thread designation | M30 x 1.5                |
| Materials          | brass nickel-plated; PBT |

| Displays / operating elements |                  |                 |
|-------------------------------|------------------|-----------------|
| Display                       | switching status | 1 x LED, yellow |

| Accessories    |              |
|----------------|--------------|
| Items supplied | lock nuts: 2 |

| Remarks       |        |
|---------------|--------|
| Pack quantity | 1 pcs. |

## Electrical connection - plug

Connector: 1 x M12; coding: A



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### Connection

