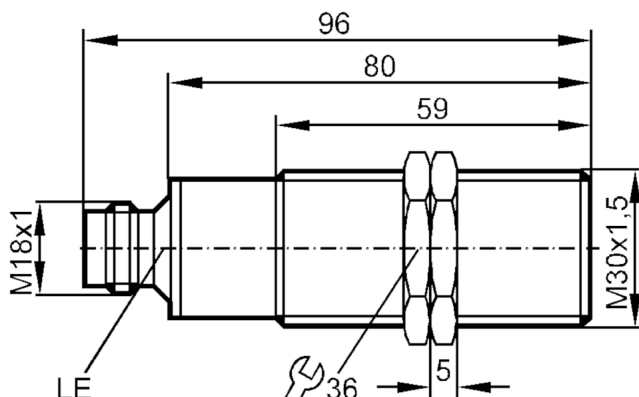


## Inductive sensor

IIA2010-BBOA/V4A/BS-301-A

Article no longer available - archive entry



## Product characteristics

|                 |      |                 |
|-----------------|------|-----------------|
| Output function |      | normally closed |
| Sensing range   | [mm] | 10              |
| Housing         |      | threaded type   |
| Dimensions      | [mm] | M30 x 1.5       |

## Electrical data

|                             |     |                |
|-----------------------------|-----|----------------|
| Operating voltage           | [V] | 20...250 AC/DC |
| Protection class            |     | II             |
| Reverse polarity protection |     | no             |

## Outputs

|                                                 |      |                                                 |
|-------------------------------------------------|------|-------------------------------------------------|
| Output function                                 |      | normally closed                                 |
| Max. voltage drop switching output DC           | [V]  | 6.5                                             |
| Max. voltage drop switching output AC           | [V]  | 6.5                                             |
| Minimum load current                            | [mA] | 5                                               |
| Max. leakage current                            | [mA] | 2.5 (250 V AC) / 1.3 (110 V AC) / 0.8 (24 V DC) |
| Permanent current rating of switching output AC | [mA] | 100; (350 (...50 °C))                           |
| Permanent current rating of switching output DC | [mA] | 100                                             |
| Short-time current rating of switching output   | [mA] | 2200; (20 ms / 0,5 Hz)                          |
| Switching frequency AC                          | [Hz] | 25                                              |



## Inductive sensor

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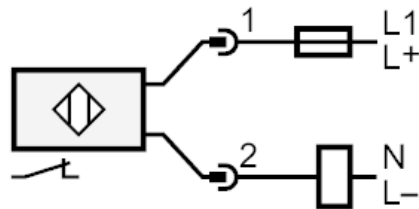
|                                      |                  |                                                                               |
|--------------------------------------|------------------|-------------------------------------------------------------------------------|
| Switching frequency DC               | [Hz]             | 50                                                                            |
| Short-circuit proof                  |                  | no                                                                            |
| Overload protection                  |                  | no                                                                            |
| <b>Detection zone</b>                |                  |                                                                               |
| Sensing range                        | [mm]             | 10                                                                            |
| Real sensing range Sr                | [mm]             | 10 ± 10 %                                                                     |
| Operating distance                   | [mm]             | 0...8.1                                                                       |
| <b>Accuracy / deviations</b>         |                  |                                                                               |
| Correction factor                    |                  | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3   |
| Hysteresis                           | [% of Sr]        | 3...15                                                                        |
| Switch point drift                   | [% of Sr]        | -10...10                                                                      |
| <b>Operating conditions</b>          |                  |                                                                               |
| Ambient temperature                  | [°C]             | -25...80                                                                      |
| Protection                           |                  | IP 67                                                                         |
| <b>Tests / approvals</b>             |                  |                                                                               |
| EMC                                  | EN 60947-5-2     |                                                                               |
|                                      | EN 55011         | class B                                                                       |
| <b>Mechanical data</b>               |                  |                                                                               |
| Weight                               | [g]              | 172                                                                           |
| Housing                              |                  | threaded type                                                                 |
| Mounting                             |                  | flush mountable                                                               |
| Dimensions                           | [mm]             | M30 x 1.5                                                                     |
| Thread designation                   |                  | M30 x 1.5                                                                     |
| Materials                            |                  | stainless steel (316Ti/1.4571); PBT uncoloured                                |
| <b>Displays / operating elements</b> |                  |                                                                               |
| Display                              | switching status | 1 x LED, yellow                                                               |
| <b>Electrical connection</b>         |                  |                                                                               |
| Required protection                  |                  | miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting                      |
| <b>Accessories</b>                   |                  |                                                                               |
| Items supplied                       |                  | lock nuts: 2                                                                  |
| <b>Remarks</b>                       |                  |                                                                               |
| Remarks                              |                  | Recommendation: Check the safe functioning of the unit after a short circuit. |
| Pack quantity                        |                  | 1 pcs.                                                                        |

## Inductive sensor

IIA2010-BBOA/V4A/BS-301-A

### Electrical connection - plug

Connector: 1 x M18; coding: A



Note miniature fuse to IEC60127-2 sheet 1  $\leq 2$  A fast acting