

# II000A



## Inductive sensor

IIA2015-ABOA/6M/3D

Article no longer available - archive entry

Alternative articles: II001A

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



### Product characteristics

|                 |      |                    |
|-----------------|------|--------------------|
| Output function |      | normally open      |
| Sensing range   | [mm] | 15                 |
| Housing         |      | Threaded type      |
| Dimensions      | [mm] | M30 x 1.5 / L = 81 |

### Electrical data

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

### Outputs

|                                                 |      |                                                 |
|-------------------------------------------------|------|-------------------------------------------------|
| Output function                                 |      | normally open                                   |
| Max. voltage drop switching output DC           | [V]  | 6                                               |
| 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] | 200                                             |
| 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                                              |
| Switching frequency DC                          | [Hz] | 50                                              |
| Short-circuit proof                             |      | no                                              |
| Overload protection                             |      | no                                              |

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| Monitoring range              |                  |                                                                                                                |
|-------------------------------|------------------|----------------------------------------------------------------------------------------------------------------|
| Sensing range                 | [mm]             | 15                                                                                                             |
| Real sensing range Sr         | [mm]             | 15 ± 10 %                                                                                                      |
| Operating distance            | [mm]             | 0...12.1                                                                                                       |
| Accuracy / deviations         |                  |                                                                                                                |
| Correction factor             |                  | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.2                                     |
| Hysteresis                    | [% of Sr]        | 1...15                                                                                                         |
| Switch-point drift            | [% of Sr]        | -10...10                                                                                                       |
| Operating conditions          |                  |                                                                                                                |
| Ambient temperature           | [°C]             | -20...60                                                                                                       |
| Protection                    |                  | IP 67                                                                                                          |
| Tests / approvals             |                  |                                                                                                                |
| ATEX marking                  |                  |  II 3D Ex tD A22 IP67 T80°C X |
| EMC                           |                  | EN 60947-5-2                                                                                                   |
| Mechanical data               |                  |                                                                                                                |
| Weight                        | [g]              | 0.412                                                                                                          |
| Housing                       |                  | Threaded type                                                                                                  |
| Mounting                      |                  | non-flush mountable                                                                                            |
| Dimensions                    | [mm]             | M30 x 1.5 / L = 81                                                                                             |
| Thread designation            |                  | M30 x 1.5                                                                                                      |
| Material                      |                  | brass white bronze coated; sensing face: PBT; end cap: TPE-U                                                   |
| Displays / operating elements |                  |                                                                                                                |
| Display                       | Switching status | 1 x LED, yellow                                                                                                |
| Electrical connection         |                  |                                                                                                                |
| Required protection           |                  | miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting; Place the fuse outside the hazardous area.           |
| Accessories                   |                  |                                                                                                                |
| Items supplied                |                  | lock nuts: 2                                                                                                   |
| Remarks                       |                  |                                                                                                                |
| Remarks                       |                  | Recommendation: check the unit for reliable function after a short circuit.                                    |
| Pack quantity                 |                  | 1 pcs.                                                                                                         |

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### Electrical connection

Cable: 6 m, PVC; 2 x 0.5 mm<sup>2</sup>

### Connection



Note miniature fuse to IEC60127-2 sheet 1  $\leq 2$  A fast acting  
Place the fuse outside the hazardous area.

Core colors :

BN = brown  
BU = blue