



## Inductive sensor

IGA2008-ABOA/V4A



### Product characteristics

|                    |                  |
|--------------------|------------------|
| Output function    | normally open    |
| Sensing range [mm] | 8                |
| Housing            | threaded type    |
| Dimensions [mm]    | M18 x 1 / L = 80 |

### 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] | 250; (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                                              |
| Switching frequency DC [Hz]                          | 50                                              |
| Short-circuit proof                                  | no                                              |
| Overload protection                                  | no                                              |

### Detection zone

|                            |          |
|----------------------------|----------|
| Sensing range [mm]         | 8        |
| Real sensing range Sr [mm] | 8 ± 10 % |
| Operating distance [mm]    | 0...6.5  |



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| Accuracy / deviations         |                                                                               |                  |
|-------------------------------|-------------------------------------------------------------------------------|------------------|
| Correction factor             | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2   |                  |
| Hysteresis                    | [% of Sr]                                                                     | 1...15           |
| Switch point drift            | [% of Sr]                                                                     | -10...10         |
| Operating conditions          |                                                                               |                  |
| Ambient temperature           | [°C]                                                                          | -25...80         |
| Protection                    | IP 67                                                                         |                  |
| Tests / approvals             |                                                                               |                  |
| EMC                           | EN 60947-5-2                                                                  | class B          |
|                               | EN 55011                                                                      |                  |
| MTTF                          | [years]                                                                       | 604              |
| Mechanical data               |                                                                               |                  |
| Weight                        | [g]                                                                           | 151.2            |
| Housing                       | threaded type                                                                 |                  |
| Mounting                      | non-flush mountable                                                           |                  |
| Dimensions                    | [mm]                                                                          | M18 x 1 / L = 80 |
| Thread designation            | M18 x 1                                                                       |                  |
| Materials                     | stainless steel (1.4571/316Ti) ; PBT uncoloured                               |                  |
| 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                      |                  |
| Accessories                   |                                                                               |                  |
| Accessories (supplied)        | lock nuts: 2                                                                  |                  |
| Remarks                       |                                                                               |                  |
| Remarks                       | Recommendation: Check the safe functioning of the unit after a short circuit. |                  |
| Pack quantity                 | 1 pcs.                                                                        |                  |

# IG0062



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### Electrical connection

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

### Connection



Note miniature fuse to IEC60127-2 sheet 1 ≤ 2 A fast acting