



Inductive sensor

IGA2008-ABOA/6M



| 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                                                                     |
| Accuracy / deviations                           |      |                                                                             |
| Correction factor                               |      | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2 |

# IG0054



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|                    |       |          |
|--------------------|-------|----------|
| Hysteresis         | [X01] | 1...15   |
| Switch point drift | [X01] | -10...10 |

### Operating conditions

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

### Tests / approvals

|      |              |         |
|------|--------------|---------|
| EMC  | EN 60947-5-2 |         |
|      | EN 55011     | class B |
| MTTF | [ANN]        | 604     |

### Mechanical data

|                    |      |                                                                                                                                              |
|--------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Weight             | [g]  | 338.5                                                                                                                                        |
| Housing            |      | threaded type                                                                                                                                |
| Mounting           |      | non-flush mountable                                                                                                                          |
| Dimensions         | [mm] | M18 x 1 / L = 80                                                                                                                             |
| Thread designation |      | M18 x 1                                                                                                                                      |
| Materials          |      | brass white bronze coated; sensing face: PBT natural; conduit attachment: TPU; LED window: PBT natural; lock nuts: brass white bronze coated |

### Displays / operating elements

|         |                  |                 |
|---------|------------------|-----------------|
| Display | switching status | 1 x LED, yellow |
|---------|------------------|-----------------|

### Electrical connection

|                     |                                                               |
|---------------------|---------------------------------------------------------------|
| Required protection | miniature fuse to IEC60127-2 sheet 1; $\leq 2$ A; fast acting |
|---------------------|---------------------------------------------------------------|

### Аксессуары

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

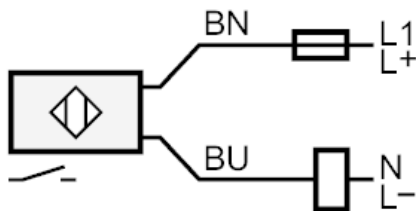
### Remarks

|               |                                                                               |
|---------------|-------------------------------------------------------------------------------|
| Remarks       | Recommendation: Check the safe functioning of the unit after a short circuit. |
| Pack quantity | 1 pcs.                                                                        |

### 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

Core colours :

BN = brown  
BU = blue