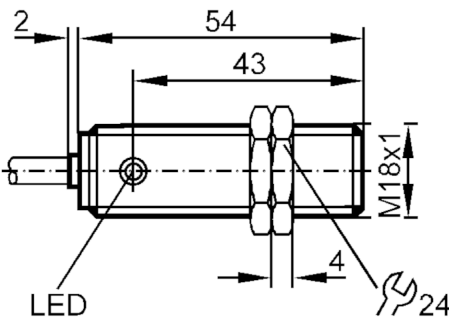




Inductive sensor

IGC2008-BBOA



| Product characteristics                         |      |                                |
|-------------------------------------------------|------|--------------------------------|
| Output function                                 |      | normally closed                |
| Sensing range                                   | [mm] | 8                              |
| Housing                                         |      | Threaded type                  |
| Dimensions                                      | [mm] | M18 x 1                        |
| 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) / 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                             |



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|                     |    |
|---------------------|----|
| Overload protection | no |
|---------------------|----|

## Monitoring range

|                          |      |               |
|--------------------------|------|---------------|
| Sensing range            | [mm] | 8             |
| Real sensing range $S_r$ | [mm] | $8 \pm 10 \%$ |
| Operating distance       | [mm] | 0...6.5       |

## Accuracy / deviations

|                    |                                                                            |          |
|--------------------|----------------------------------------------------------------------------|----------|
| Correction factor  | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 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]        | 604               |
| UL approval | Ta             | 0...40 °C         |
|             | Enclosure type | Type 1            |
|             | voltage supply | Hazardous voltage |
|             | File number UL | E174191           |

## Mechanical data

|                    |      |                     |
|--------------------|------|---------------------|
| Weight             | [g]  | 110                 |
| Housing            |      | Threaded type       |
| Mounting           |      | non-flush mountable |
| Dimensions         | [mm] | M18 x 1             |
| Thread designation |      | M18 x 1             |
| Material           |      | PBT                 |

## 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 |
|---------------------|---------------------------------------------------------------|

## Accessories

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

## Remarks

|               |                                                                             |
|---------------|-----------------------------------------------------------------------------|
| Remarks       | Recommendation: check the unit for reliable function after a short circuit. |
| Pack quantity | 1 pcs.                                                                      |

# IG0363



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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  $\leq$  2 A fast acting

Core colors :

BN =

brown

BU =

blue