

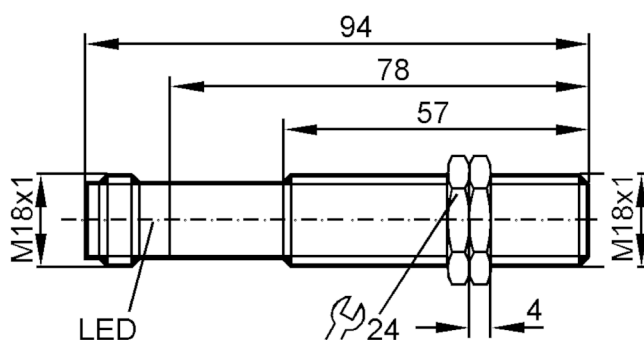
## Inductive sensor

IGA2005-ABOA/BS-201-A/94/RT

Article no longer available - archive entry

Alternative articles: IG0231

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



### Product characteristics

|                    |               |
|--------------------|---------------|
| Output function    | normally open |
| Sensing range [mm] | 5             |
| 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 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                                             |



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|                                               |      |                        |
|-----------------------------------------------|------|------------------------|
| Short-time current rating of switching output | [mA] | 2200; (20 ms / 0,5 Hz) |
| Switching frequency AC                        | [Hz] | 25                     |
| Switching frequency DC                        | [Hz] | 25                     |
| Short-circuit proof                           |      | no                     |
| Overload protection                           |      | no                     |

| Detection zone        |      |          |
|-----------------------|------|----------|
| Sensing range         | [mm] | 5        |
| Real sensing range Sr | [mm] | 5 ± 10 % |
| Operating distance    | [mm] | 0...4.05 |

| Accuracy / deviations |           |                                                                             |
|-----------------------|-----------|-----------------------------------------------------------------------------|
| 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                                                                    |

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

| Tests / approvals |                           |                                |
|-------------------|---------------------------|--------------------------------|
| EMC               | EN 61000-4-2 ESD          | 4 kV CD / 8 kV AD              |
|                   | EN 61000-4-3 HF radiated  | 10 V/m                         |
|                   | EN 61000-4-4 Burst        | 2 kV                           |
|                   | EN 61000-4-5 Surge        | 0,5 kV line to line, Ri: 2 Ohm |
|                   | EN 61000-4-6 HF conducted | 10 V                           |
|                   | EN 55011 emission         | class B                        |

| Mechanical data    |      |                                                                        |
|--------------------|------|------------------------------------------------------------------------|
| Weight             | [g]  | 0.076                                                                  |
| Housing            |      | threaded type                                                          |
| Mounting           |      | flush mountable                                                        |
| Dimensions         | [mm] | M18 x 1                                                                |
| Thread designation |      | M18 x 1                                                                |
| Materials          |      | housing: brass white bronze coated; sensing face: PC; lock nuts: brass |

| Displays / operating elements |                  |              |
|-------------------------------|------------------|--------------|
| Display                       | switching status | 1 x LED, red |

| Electrical connection |  |                                                          |
|-----------------------|--|----------------------------------------------------------|
| Required protection   |  | miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting |

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

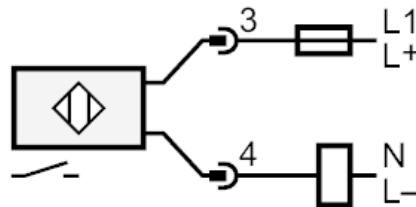
| Remarks       |  |                                                                               |
|---------------|--|-------------------------------------------------------------------------------|
| Remarks       |  | Recommendation: Check the safe functioning of the unit after a short circuit.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

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### Electrical connection - plug

Connector: 1 x M18; coding: A



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