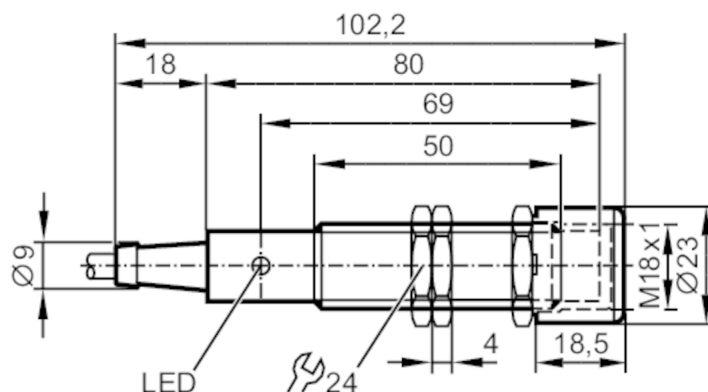


# IG513A



## Inductive sensor

IGA3008-BPKG/3D



### Product characteristics

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

### Application

|              |                                                             |
|--------------|-------------------------------------------------------------|
| Installation | use in hazardous areas only with installed protective cover |
|--------------|-------------------------------------------------------------|

### Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...30 DC |
| Current consumption [mA]    | < 15       |
| Protection class            | III        |
| Reverse polarity protection | yes        |

### Outputs

|                                                      |                    |
|------------------------------------------------------|--------------------|
| Electrical design                                    | PNP                |
| Output function                                      | normally open      |
| Max. voltage drop switching output DC [V]            | 2.5                |
| Permanent current rating of switching output DC [mA] | 150                |
| Switching frequency DC [Hz]                          | 300                |
| Short-circuit protection                             | yes                |
| Type of short-circuit protection                     | yes (non-latching) |
| Overload protection                                  | yes                |

### Monitoring range

|                            |          |
|----------------------------|----------|
| Sensing range [mm]         | 8        |
| Real sensing range Sr [mm] | 8 ± 10 % |
| Operating distance [mm]    | 0...6.48 |

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## Inductive sensor

IGA3008-BPKG/3D

| Accuracy / deviations         |                                                                                                          |                                                                                                               |                                |
|-------------------------------|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|--------------------------------|
| Correction factor             |                                                                                                          | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.2                                    |                                |
| Hysteresis                    | [% of Sr]                                                                                                | 1...20                                                                                                        |                                |
| Switch-point drift            | [% of Sr]                                                                                                | -10...10                                                                                                      |                                |
| Operating conditions          |                                                                                                          |                                                                                                               |                                |
| Ambient temperature           |                                                                                                          | [°C]                                                                                                          | -20...60                       |
| Protection                    |                                                                                                          | IP 67                                                                                                         |                                |
| Tests / approvals             |                                                                                                          |                                                                                                               |                                |
| ATEX marking                  |                                                                                                          |  II 3D Ex tc IIIC T80°C Dc X |                                |
| EMC                           | EN 61000-4-2 ESD                                                                                         |                                                                                                               | 4 kV CD / 8 kV AD              |
|                               | EN 61000-4-3 HF radiated                                                                                 |                                                                                                               | 3 V/m                          |
|                               | EN 61000-4-4 Burst                                                                                       |                                                                                                               | 2 kV                           |
|                               | EN 61000-4-6 HF conducted                                                                                |                                                                                                               | 3 V                            |
|                               | IEC 60255-5                                                                                              |                                                                                                               | 1 kV line to line, Ri: 500 Ohm |
|                               | EN 55011 emission                                                                                        |                                                                                                               | class B                        |
| MTTF                          | [years]                                                                                                  | 1853                                                                                                          |                                |
| Mechanical data               |                                                                                                          |                                                                                                               |                                |
| Weight                        | [g]                                                                                                      | 193.5                                                                                                         |                                |
| Housing                       | Threaded type                                                                                            |                                                                                                               |                                |
| Mounting                      | non-flush mountable                                                                                      |                                                                                                               |                                |
| Dimensions                    | [mm]                                                                                                     | M18 x 1 / L = 80                                                                                              |                                |
| Thread designation            | M18 x 1                                                                                                  |                                                                                                               |                                |
| Material                      | brass white bronze coated; sensing face: PBT; lock nuts: brass white bronze coated; Protective cover: PA |                                                                                                               |                                |
| Displays / operating elements |                                                                                                          |                                                                                                               |                                |
| Display                       | Switching status                                                                                         |                                                                                                               | 1 x LED, yellow                |
| Accessories                   |                                                                                                          |                                                                                                               |                                |
| Items supplied                | lock nuts: 3                                                                                             |                                                                                                               |                                |
|                               | Protective cover: 1                                                                                      |                                                                                                               |                                |
| Remarks                       |                                                                                                          |                                                                                                               |                                |
| Pack quantity                 | 1 pcs.                                                                                                   |                                                                                                               |                                |

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## Inductive sensor

IGA3008-BPKG/3D

### Electrical connection

Cable: 2 m, PUR; 3 x 0.50 mm<sup>2</sup>

### Connection



|      |               |
|------|---------------|
|      | Core colors : |
| BK = | black         |
| BN = | brown         |
| BU = | blue          |