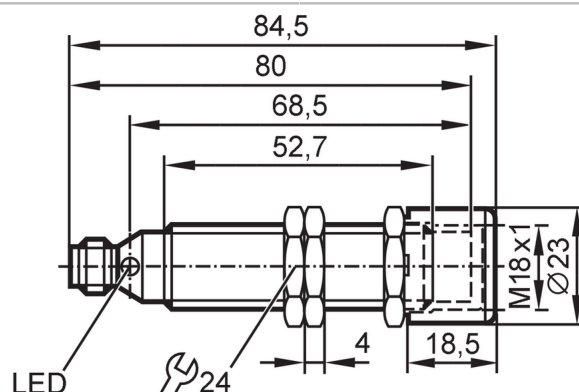


# IG514A



## Inductive sensor

IGA4010-CPKG/V4A/US/3D



### Product characteristics

|                    |                  |
|--------------------|------------------|
| Electrical design  | PNP              |
| Output function    | complementary    |
| Sensing range [mm] | 10               |
| Housing            | Threaded type    |
| Dimensions [mm]    | M18 x 1 / L = 80 |

### Application

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

### Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...30 DC |
| Current consumption [mA]    | < 20       |
| Protection class            | III        |
| Reverse polarity protection | yes        |

### Outputs

|                                                      |                    |
|------------------------------------------------------|--------------------|
| Electrical design                                    | PNP                |
| Output function                                      | complementary      |
| Max. voltage drop switching output DC [V]            | 2.5                |
| Max. leakage current [mA]                            | 0.1                |
| Permanent current rating of switching output DC [mA] | 100                |
| 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]         | 10        |
| Real sensing range Sr [mm] | 10 ± 10 % |
| Operating distance [mm]    | 0...8.1   |

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| 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]                                                                                                               | -15...15          |
| 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               |
|                                                                                     | EN 55011 emission                                                                                                       | class B           |
| MTTF                                                                                | [years]                                                                                                                 | 1326              |
| Mechanical data                                                                     |                                                                                                                         |                   |
| Weight                                                                              | [g]                                                                                                                     | 107.05            |
| Housing                                                                             | Threaded type                                                                                                           |                   |
| Mounting                                                                            | non-flush mountable                                                                                                     |                   |
| Dimensions                                                                          | [mm]                                                                                                                    | M18 x 1 / L = 80  |
| Thread designation                                                                  | M18 x 1                                                                                                                 |                   |
| Material                                                                            | housing: stainless steel (1.4404 / 316L); sensing face: PBT<br>orange; lock nuts: stainless steel; Protective cover: PA |                   |
| Displays / operating elements                                                       |                                                                                                                         |                   |
| Display                                                                             | Switching status                                                                                                        | 4 x LED, yellow   |
| Accessories                                                                         |                                                                                                                         |                   |
| Items supplied                                                                      | lock nuts: 3 x M18                                                                                                      |                   |
|                                                                                     | Protective cover: 1 x (M18 / Ø 23 mm)                                                                                   |                   |
| Remarks                                                                             |                                                                                                                         |                   |
| Pack quantity                                                                       | 1 pcs.                                                                                                                  |                   |
| Electrical connection - plug                                                        |                                                                                                                         |                   |
| Connector: 1 x M12; coding: A; Contacts: 4                                          |                                                                                                                         |                   |
|  |                                                                                                                         |                   |

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### Connection

