

# IG502A



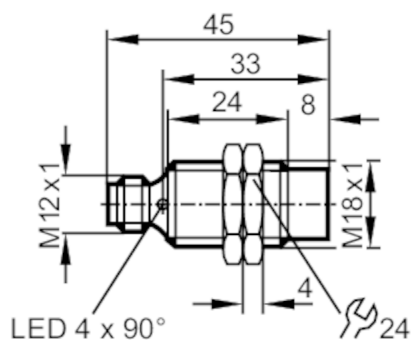
## Inductive sensor

IGB4010-CPKG/V4A/US/3D

Article no longer available - archive entry

Alternative articles: IG514A

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



### Product characteristics

|                    |                  |
|--------------------|------------------|
| Electrical design  | PNP              |
| Output function    | complementary    |
| Sensing range [mm] | 10               |
| Housing            | threaded type    |
| Dimensions [mm]    | M18 x 1 / L = 45 |

### Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...30 DC |
| Current consumption [mA]    | 15; (24 V) |
| Protection class            | III        |
| Reverse polarity protection | yes        |

### Outputs

|                                                      |               |
|------------------------------------------------------|---------------|
| Electrical design                                    | PNP           |
| Output function                                      | complementary |
| Max. voltage drop switching output DC [V]            | 2.5           |
| Permanent current rating of switching output DC [mA] | 100           |
| Switching frequency DC [Hz]                          | 300           |
| Short-circuit protection                             | yes           |
| Type of short-circuit protection                     | pulsed        |
| Overload protection                                  | yes           |

### Detection zone

|                               |                |
|-------------------------------|----------------|
| Sensing range [mm]            | 10             |
| Real sensing range $S_r$ [mm] | $10 \pm 10 \%$ |
| Operating distance [mm]       | 0...8.1        |

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| Accuracy / deviations                                                               |                                                                                                                               |                                                                             |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Correction factor                                                                   |                                                                                                                               | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3 |
| Hysteresis                                                                          | [X01]                                                                                                                         | 3...15                                                                      |
| Switch point drift                                                                  | [X01]                                                                                                                         | -10...10                                                                    |
| Operating conditions                                                                |                                                                                                                               |                                                                             |
| Ambient temperature                                                                 | [°C]                                                                                                                          | -20...60                                                                    |
| Protection                                                                          |                                                                                                                               | IP 67                                                                       |
| Tests / approvals                                                                   |                                                                                                                               |                                                                             |
| ATEX marking                                                                        |  II 3D Ex tD A22 IP67 T80°C X Ta: -20...60°C |                                                                             |
| EMC                                                                                 | EN 60947-5-2                                                                                                                  |                                                                             |
| Mechanical data                                                                     |                                                                                                                               |                                                                             |
| Weight                                                                              | [g]                                                                                                                           | 0.07                                                                        |
| Housing                                                                             | threaded type                                                                                                                 |                                                                             |
| Mounting                                                                            | non-flush mountable                                                                                                           |                                                                             |
| Dimensions                                                                          | [mm]                                                                                                                          | M18 x 1 / L = 45                                                            |
| Thread designation                                                                  | M18 x 1                                                                                                                       |                                                                             |
| Materials                                                                           | stainless steel (1.4571/316Ti ); sensing face: PBT                                                                            |                                                                             |
| Displays / operating elements                                                       |                                                                                                                               |                                                                             |
| Display                                                                             | switching status                                                                                                              | 4 x LED, yellow                                                             |
| Аксессуары                                                                          |                                                                                                                               |                                                                             |
| Items supplied                                                                      | lock nuts: 2                                                                                                                  |                                                                             |
| Remarks                                                                             |                                                                                                                               |                                                                             |
| Pack quantity                                                                       | 1 pcs.                                                                                                                        |                                                                             |
| Electrical connection - plug                                                        |                                                                                                                               |                                                                             |
| Connector: 1 x M12; coding: A                                                       |                                                                                                                               |                                                                             |
|  |                                                                                                                               |                                                                             |

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### Connection

