

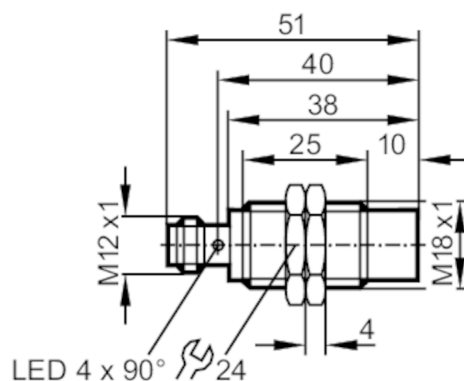
## Inductive sensor

IGB3012-BPKG/M/US/3D

Article no longer available - archive entry

Alternative articles: IG511A

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



### Product characteristics

|                    |                  |
|--------------------|------------------|
| Electrical design  | PNP              |
| Output function    | normally open    |
| Sensing range [mm] | 12               |
| Housing            | threaded type    |
| Dimensions [mm]    | M18 x 1 / L = 51 |

### Application

|                 |                                               |
|-----------------|-----------------------------------------------|
| Special feature | Gold-plated contacts; Increased sensing range |
| Application     | Industrial applications / factory automation  |

### Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...36 DC |
| Current consumption [mA]    | < 10       |
| Protection class            | II         |
| 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] | 100           |
| Switching frequency DC [Hz]                          | 300           |
| Short-circuit protection                             | yes           |
| Type of short-circuit protection                     | pulsed        |
| Overload protection                                  | yes           |



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| Detection zone                                                                      |                  |                                                                                                                |
|-------------------------------------------------------------------------------------|------------------|----------------------------------------------------------------------------------------------------------------|
| Sensing range                                                                       | [mm]             | 12                                                                                                             |
| Real sensing range Sr                                                               | [mm]             | 12 ± 10 %                                                                                                      |
| Operating distance                                                                  | [mm]             | 0...9.7                                                                                                        |
| Increased sensing range                                                             |                  | yes                                                                                                            |
| 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]             | -20...60                                                                                                       |
| Protection                                                                          |                  | IP 67                                                                                                          |
| Tests / approvals                                                                   |                  |                                                                                                                |
| ATEX marking                                                                        |                  |  II 3D Ex tD A22 IP67 T80°C X |
| EMC                                                                                 |                  | EN 60947-5-2                                                                                                   |
| Mechanical data                                                                     |                  |                                                                                                                |
| Weight                                                                              | [g]              | 0.065                                                                                                          |
| Housing                                                                             |                  | threaded type                                                                                                  |
| Mounting                                                                            |                  | non-flush mountable                                                                                            |
| Dimensions                                                                          | [mm]             | M18 x 1 / L = 51                                                                                               |
| Thread designation                                                                  |                  | M18 x 1                                                                                                        |
| Materials                                                                           |                  | brass white bronze coated; sensing face: PBT; LED window: PEI                                                  |
| Displays / operating elements                                                       |                  |                                                                                                                |
| Display                                                                             | switching status | 4 x 90° LED, yellow                                                                                            |
| Accessories                                                                         |                  |                                                                                                                |
| Items supplied                                                                      |                  | lock nuts: 2                                                                                                   |
| Remarks                                                                             |                  |                                                                                                                |
| Pack quantity                                                                       |                  | 1 pcs.                                                                                                         |
| Electrical connection - plug                                                        |                  |                                                                                                                |
| Connector: 1 x M12; coding: A; Contacts: gold-plated                                |                  |                                                                                                                |
|  |                  |                                                                                                                |

# IGS21A

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### Connection

