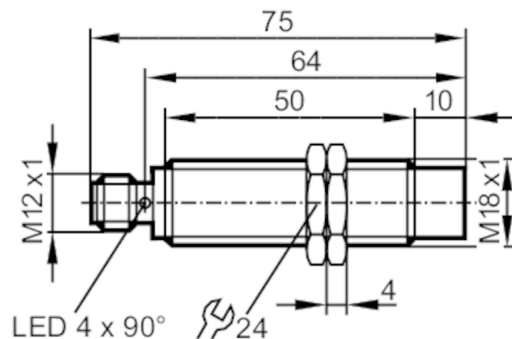


# IG5602



## Inductive sensor

IGA3008-BPKG/V4A/US-104



### Product characteristics

|                    |                  |
|--------------------|------------------|
| Electrical design  | PNP              |
| Output function    | normally open    |
| Sensing range [mm] | 8                |
| Housing            | threaded type    |
| Dimensions [mm]    | M18 x 1 / L = 75 |

### Application

|                 |                                              |
|-----------------|----------------------------------------------|
| Special feature | Gold-plated contacts                         |
| Application     | Industrial applications / factory automation |

### Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...30 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] | 200           |
| Switching frequency DC [Hz]                          | 300           |
| Short-circuit protection                             | yes           |
| Type of short-circuit protection                     | pulsed        |
| Overload protection                                  | yes           |

### Detection zone

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

### Accuracy / deviations

|                   |                                                                             |
|-------------------|-----------------------------------------------------------------------------|
| Correction factor | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3 |
|-------------------|-----------------------------------------------------------------------------|

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|                    |           |          |
|--------------------|-----------|----------|
| Hysteresis         | [% of Sr] | 1...20   |
| 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 61000-4-6 HF conducted | 10 V              |
|      | EN 55011                  | class B           |
| MTTF | [years]                   | 1083              |

### Mechanical data

|                    |      |                                                                                                                               |
|--------------------|------|-------------------------------------------------------------------------------------------------------------------------------|
| Weight             | [g]  | 66.1                                                                                                                          |
| Housing            |      | threaded type                                                                                                                 |
| Mounting           |      | non-flush mountable                                                                                                           |
| Dimensions         | [mm] | M18 x 1 / L = 75                                                                                                              |
| Thread designation |      | M18 x 1                                                                                                                       |
| Materials          |      | housing: stainless steel (316L/1.4404); sensing face: PBT white;<br>LED window: PEI; lock nuts: stainless steel (316L/1.4404) |
| Tightening torque  | [Nm] | 50                                                                                                                            |

### Displays / operating elements

|         |                  |                 |
|---------|------------------|-----------------|
| Display | switching status | 4 x 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



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### Connection

