

# IGT204



## Inductive sensor

IGB3008BAPKG/V4A/US-104



### Product characteristics

|                    |                  |
|--------------------|------------------|
| Electrical design  | PNP              |
| Output function    | normally closed  |
| Sensing range [mm] | 8                |
| Housing            | Threaded type    |
| Dimensions [mm]    | M18 x 1 / L = 45 |

### Application

|             |                            |
|-------------|----------------------------|
| System      | gold-plated contacts       |
| Application | regular cleaning processes |

### 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 closed    |
| Max. voltage drop switching output DC [V]            | 2.5                |
| Permanent current rating of switching output DC [mA] | 100                |
| Switching frequency DC [Hz]                          | 600                |
| 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 |

### Accuracy / deviations

|                   |                                                                            |
|-------------------|----------------------------------------------------------------------------|
| Correction factor | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 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] | 0...100       |
| Protection          |      | IP 68; IP 69K |

### 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]                   | 1134                    |
| UL approval | Ta                        | 0...40 °C               |
|             | Enclosure type            | Type 1                  |
|             | voltage supply            | Limited Voltage/Current |
|             | UL approval number        | A001                    |
|             | File number UL            | E174191                 |

### Mechanical data

|                    |      |                                                                                                                                      |
|--------------------|------|--------------------------------------------------------------------------------------------------------------------------------------|
| Weight             | [g]  | 44.9                                                                                                                                 |
| Housing            |      | Threaded type                                                                                                                        |
| Mounting           |      | flush mountable                                                                                                                      |
| Dimensions         | [mm] | M18 x 1 / L = 45                                                                                                                     |
| Thread designation |      | M18 x 1                                                                                                                              |
| Material           |      | housing: stainless steel (1.4404 / 316L); sensing face: PEEK<br>natural; LED window: PEI; lock nuts: stainless steel (1.4404 / 316L) |
| 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

