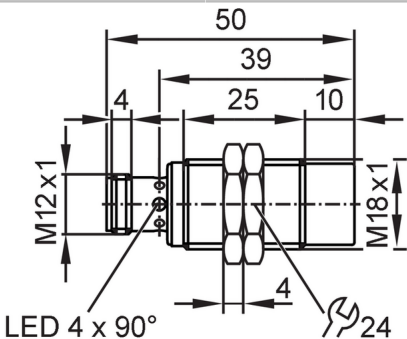


# IGC208



## Inductive sensor

IGB3012-APKG/US-104



### Product characteristics

|                    |                  |
|--------------------|------------------|
| Electrical design  | PNP              |
| Output function    | normally closed  |
| Sensing range [mm] | 12               |
| Housing            | Threaded type    |
| Dimensions [mm]    | M18 x 1 / L = 50 |

### Application

|                 |                                            |
|-----------------|--------------------------------------------|
| Special feature | gold-plated contacts                       |
| Application     | Industrial applications; Oils and coolants |

### 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]                          | 300                |
| Short-circuit protection                             | yes                |
| Type of short-circuit protection                     | yes (non-latching) |
| Overload protection                                  | yes                |

### Monitoring range

|                            |           |
|----------------------------|-----------|
| Sensing range [mm]         | 12        |
| Real sensing range Sr [mm] | 12 ± 10 % |
| Operating distance [mm]    | 0...9.72  |

### Accuracy / deviations

|                      |                                                                            |
|----------------------|----------------------------------------------------------------------------|
| Correction factor    | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.4 / copper: 0.3 |
| Hysteresis [% of Sr] | 1...20                                                                     |

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|                    |           |          |
|--------------------|-----------|----------|
| Switch-point drift | [% of Sr] | -10...10 |
|--------------------|-----------|----------|

### Operating conditions

|                     |      |          |
|---------------------|------|----------|
| Ambient temperature | [°C] | -25...70 |
|---------------------|------|----------|

|            |       |
|------------|-------|
| Protection | IP 68 |
|------------|-------|

### 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    |
|             | UL approval number | A003      |
|             | File number UL     | E174191   |

### Mechanical data

|        |     |      |
|--------|-----|------|
| Weight | [g] | 44.7 |
|--------|-----|------|

|         |               |
|---------|---------------|
| Housing | Threaded type |
|---------|---------------|

|          |                     |
|----------|---------------------|
| Mounting | non-flush mountable |
|----------|---------------------|

|            |      |                  |
|------------|------|------------------|
| Dimensions | [mm] | M18 x 1 / L = 50 |
|------------|------|------------------|

|                    |         |
|--------------------|---------|
| Thread designation | M18 x 1 |
|--------------------|---------|

|          |                                                                                                                       |
|----------|-----------------------------------------------------------------------------------------------------------------------|
| Material | housing: brass white bronze coated; sensing face: LCP white;<br>LED window: PEI; lock nuts: brass white bronze coated |
|----------|-----------------------------------------------------------------------------------------------------------------------|

|                   |      |    |
|-------------------|------|----|
| Tightening torque | [Nm] | 25 |
|-------------------|------|----|

### 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: 3, gold-plated





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### Connection

