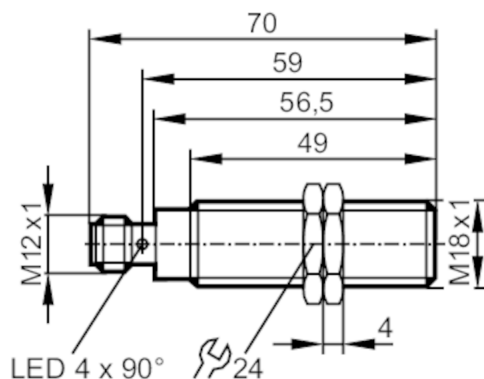


## Inductive sensor

IGK3005-BPKG/M/US-104-DPS/K0



### Product characteristics

|                    |                  |
|--------------------|------------------|
| Electrical design  | PNP              |
| Output function    | normally open    |
| Sensing range [mm] | 5                |
| Housing            | threaded type    |
| Dimensions [mm]    | M18 x 1 / L = 70 |

### Application

|                 |                                               |
|-----------------|-----------------------------------------------|
| Special feature | Gold-plated contacts                          |
| Application     | Use in machine tools, coolants and lubricants |
| Media           | ferrous only; aluminium chip immune           |

### Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...30 DC |
| Current consumption [mA]    | < 10       |
| Protection class            | III        |
| 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]                          | 25            |
| Short-circuit protection                             | yes           |
| Type of short-circuit protection                     | pulsed        |
| Overload protection                                  | yes           |

### Detection zone

|                            |          |
|----------------------------|----------|
| Sensing range [mm]         | 5        |
| Real sensing range Sr [mm] | 5 ± 10 % |



## Inductive sensor

IGK3005-BPKG/M/US-104-DPS/K0

|                    |      |          |
|--------------------|------|----------|
| Operating distance | [mm] | 0...4.05 |
|--------------------|------|----------|

### Operating conditions

|                     |      |        |
|---------------------|------|--------|
| Ambient temperature | [°C] | 0...60 |
|---------------------|------|--------|

|            |                    |
|------------|--------------------|
| Protection | IP 68; ("Coolant") |
|------------|--------------------|

### 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] | 1514 |
|------|---------|------|

|             |                |           |
|-------------|----------------|-----------|
| UL approval | Ta             | 0...60 °C |
|             | Enclosure type | Type 1    |
|             | power supply   | Class 2   |
|             | File number UL | E174191   |

### Mechanical data

|        |     |      |
|--------|-----|------|
| Weight | [g] | 63.5 |
|--------|-----|------|

|         |               |
|---------|---------------|
| Housing | threaded type |
|---------|---------------|

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

|            |      |                  |
|------------|------|------------------|
| Dimensions | [mm] | M18 x 1 / L = 70 |
|------------|------|------------------|

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

|           |                                                                                |
|-----------|--------------------------------------------------------------------------------|
| Materials | housing: brass white bronze coated; sensing face: stainless steel (303/1.4305) |
|-----------|--------------------------------------------------------------------------------|

### 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



## Inductive sensor

IGK3005-BPKG/M/US-104-DPS/K0

### Connection

