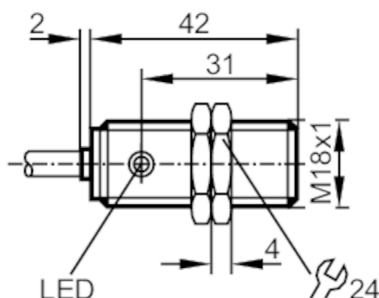


# IG5717



## Inductive sensor

IGB2005-ARKG/UP



### Product characteristics

|                    |                  |
|--------------------|------------------|
| Electrical design  | PNP/NPN          |
| Output function    | normally open    |
| Sensing range [mm] | 5                |
| Housing            | Threaded type    |
| Dimensions [mm]    | M18 x 1 / L = 42 |

### Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...36 DC |
| Protection class            | II         |
| Reverse polarity protection | yes        |

### Outputs

|                                                      |                    |
|------------------------------------------------------|--------------------|
| Electrical design                                    | PNP/NPN            |
| Output function                                      | normally open      |
| Max. voltage drop switching output DC [V]            | 4.6                |
| Minimum load current [mA]                            | 4                  |
| Max. leakage current [mA]                            | 0.6                |
| Permanent current rating of switching output DC [mA] | 150                |
| Switching frequency DC [Hz]                          | 720                |
| Short-circuit protection                             | yes                |
| Type of short-circuit protection                     | yes (non-latching) |
| Overload protection                                  | yes                |

### Monitoring range

|                            |          |
|----------------------------|----------|
| Sensing range [mm]         | 5        |
| Real sensing range Sr [mm] | 5 ± 10 % |
| Operating distance [mm]    | 0...4.05 |

### Accuracy / deviations

|                              |                                                                            |
|------------------------------|----------------------------------------------------------------------------|
| Correction factor            | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.2 |
| Hysteresis [% of Sr]         | 1...15                                                                     |
| Switch-point drift [% of Sr] | -10...10                                                                   |

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### Operating conditions

|                     |      |          |
|---------------------|------|----------|
| Ambient temperature | [°C] | -25...80 |
| Protection          |      | IP 67    |

### Tests / approvals

|      |         |              |         |
|------|---------|--------------|---------|
| EMC  |         | EN 60947-5-2 |         |
|      |         | EN 55011     | class B |
| MTTF | [years] | 2642         |         |

### Mechanical data

|                    |      |                                |
|--------------------|------|--------------------------------|
| Weight             | [g]  | 146.5                          |
| Housing            |      | Threaded type                  |
| Mounting           |      | flush mountable                |
| Dimensions         | [mm] | M18 x 1 / L = 42               |
| Thread designation |      | M18 x 1                        |
| Material           |      | brass white bronze coated; PBT |

### Displays / operating elements

|         |                  |                 |
|---------|------------------|-----------------|
| Display | Switching status | 1 x LED, yellow |
|---------|------------------|-----------------|

### Accessories

|                |              |
|----------------|--------------|
| Items supplied | lock nuts: 2 |
|----------------|--------------|

### Remarks

|               |        |
|---------------|--------|
| Pack quantity | 1 pcs. |
|---------------|--------|

### Electrical connection

Cable: 2 m, PVC; 2 x 0.5 mm<sup>2</sup>

### Connection

