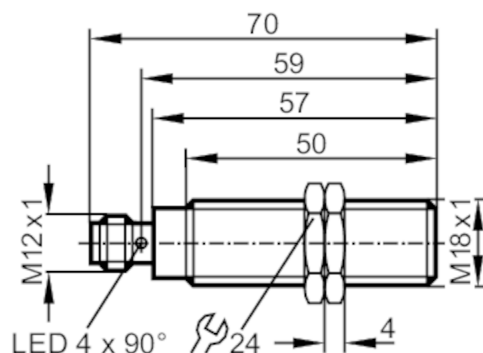


# IG512A



## Inductive full-metal sensor

IGK3005-APKG/AM/US104DPO/3G/3D



### Product characteristics

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

### Application

|                         |                                          |
|-------------------------|------------------------------------------|
| Special feature         | Gold-plated contacts; Full-metal housing |
| Pressure rating [bar]   | 100                                      |
| Note on pressure rating | sensing face                             |

### Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...36 DC |
| Current consumption [mA]    | < 20       |
| Protection class            | III        |
| 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]                          | 100             |
| Short-circuit protection                             | yes             |
| Type of short-circuit protection                     | pulsed          |
| Overload protection                                  | yes             |

### Detection zone

|                         |          |
|-------------------------|----------|
| Sensing range [mm]      | 5        |
| Operating distance [mm] | 0...4.05 |

### Accuracy / deviations

|                   |                                                                             |
|-------------------|-----------------------------------------------------------------------------|
| Correction factor | steel: 1 / stainless steel: 0.7 / brass: 0.6 / aluminium: 0.5 / copper: 0.3 |
|-------------------|-----------------------------------------------------------------------------|

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|            |           |        |
|------------|-----------|--------|
| Hysteresis | [% of Sr] | 1...20 |
|------------|-----------|--------|

### Operating conditions

|                     |                                                                            |          |
|---------------------|----------------------------------------------------------------------------|----------|
| Ambient temperature | [°C]                                                                       | -40...60 |
| Protection          | IP 67; (when used outside the hazardous area: IP 65, IP 67, IP 68, IP 69K) |          |

### Tests / approvals

|              |                                  |                   |
|--------------|----------------------------------|-------------------|
| ATEX marking | II 3G Ex nA IIC T6 Gc X          |                   |
|              | II 3D Ex tc IIIC T85°C Dc IP67 X |                   |
| 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 emission                | class B           |
| MTTF         | [years]                          | 1258              |

### Mechanical data

|                    |                                                                |                  |
|--------------------|----------------------------------------------------------------|------------------|
| Weight             | [g]                                                            | 79.5             |
| Housing            | threaded type                                                  |                  |
| Mounting           | flush mountable                                                |                  |
| Dimensions         | [mm]                                                           | M18 x 1 / L = 70 |
| Thread designation | M18 x 1                                                        |                  |
| Materials          | stainless steel (316L/1.4404); PEI; lock nuts: stainless steel |                  |
| Full-metal housing | yes                                                            |                  |

### 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



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### Connection

