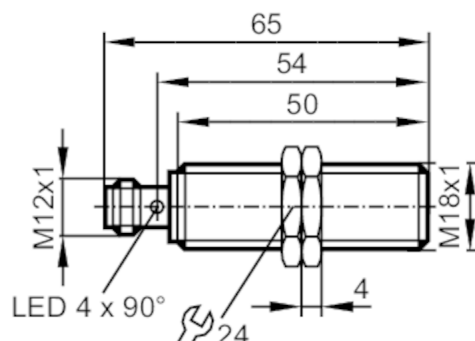


## Inductive sensor

IGK3008UBPKG/K1/SC/US-104



## Product characteristics

|                    |                  |
|--------------------|------------------|
| Electrical design  | PNP              |
| Output function    | normally open    |
| Sensing range [mm] | 8                |
| Housing            | threaded type    |
| Dimensions [mm]    | M18 x 1 / L = 65 |

## Application

|                                   |                                                                                                             |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------|
| Special feature                   | Gold-plated contacts; Increased sensing range; Correction factor K = 1; Magnetic-field immune; anti-spatter |
| Application                       | Use in welding applications                                                                                 |
| Magnetic-field immune             | yes                                                                                                         |
| Max. magnetic field immunity [mT] | 300                                                                                                         |

## Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...30 DC |
| Current consumption [mA]    | < 20       |
| Protection class            | II         |
| 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] | 100           |
| Switching frequency DC [Hz]                          | 2000          |
| Short-circuit protection                             | yes           |
| Overload protection                                  | yes           |

## Detection zone

|                            |          |
|----------------------------|----------|
| Sensing range [mm]         | 8        |
| Real sensing range Sr [mm] | 8 ± 10 % |
| Operating distance [mm]    | 0...6.48 |
| Increased sensing range    | yes      |



## Inductive sensor

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| Accuracy / deviations                                                                          |                                                                                             |                         |
|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-------------------------|
| Correction factor                                                                              | steel: 1 / stainless steel: 1 / brass: 1 / aluminium: 1 / copper: 1                         |                         |
| Hysteresis                                                                                     | [X01]                                                                                       | 3...15                  |
| Switch point drift                                                                             | [X01]                                                                                       | -10...10                |
| Correction factor K = 1                                                                        | yes                                                                                         |                         |
| Operating conditions                                                                           |                                                                                             |                         |
| Ambient temperature                                                                            | [°C]                                                                                        | -40...85                |
| Protection                                                                                     | IP 65; IP 66; IP 67; 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 emission                                                                           | class B                 |
| MTTF                                                                                           | [ANN]                                                                                       | 464                     |
| Embedded software included                                                                     | yes                                                                                         |                         |
| UL approval                                                                                    | Ta                                                                                          | -25...70 °C             |
|                                                                                                | Enclosure type                                                                              | Type 1                  |
|                                                                                                | подача напруги                                                                              | Limited Voltage/Current |
|                                                                                                | UL Approval no.                                                                             | A005                    |
|                                                                                                | File number UL                                                                              | E174191                 |
| Mechanical data                                                                                |                                                                                             |                         |
| Weight                                                                                         | [g]                                                                                         | 49.3                    |
| Housing                                                                                        | threaded type                                                                               |                         |
| Mounting                                                                                       | flush mountable                                                                             |                         |
| Dimensions                                                                                     | [mm]                                                                                        | M18 x 1 / L = 65        |
| Thread designation                                                                             | M18 x 1                                                                                     |                         |
| Materials                                                                                      | brass anti-spatter; sensing face: LCP black; LED window: PEI; lock nuts: brass anti-spatter |                         |
| Displays / operating elements                                                                  |                                                                                             |                         |
| Display                                                                                        | switching status                                                                            | 4 x LED, yellow         |
| Аксессуары                                                                                     |                                                                                             |                         |
| Items supplied                                                                                 | lock nuts: 2                                                                                |                         |
| Remarks                                                                                        |                                                                                             |                         |
| Pack quantity                                                                                  | 1 pcs.                                                                                      |                         |
| Electrical connection - plug                                                                   |                                                                                             |                         |
| Connector: 1 x M12; coding: A; Contacts: gold-plated                                           |                                                                                             |                         |
| <div></div> |                                                                                             |                         |



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### Connection

