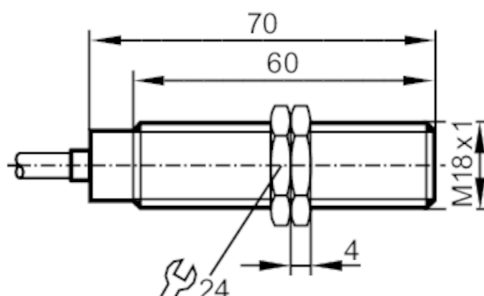


## Inductive high-temperature sensor

IGA3005ZBPKG/5M/SH



## Product characteristics

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

## Application

|             |                               |
|-------------|-------------------------------|
| Application | high-temperature applications |
|-------------|-------------------------------|

## Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...35 DC |
| Current consumption [mA]    | < 15       |
| Protection class            | III        |
| Reverse polarity protection | yes        |

## Outputs

|                                                      |               |
|------------------------------------------------------|---------------|
| Electrical design                                    | PNP           |
| Output function                                      | normally open |
| Max. voltage drop switching output DC [V]            | 2             |
| Max. leakage current [mA]                            | 0.5           |
| Permanent current rating of switching output DC [mA] | 150           |
| Switching frequency DC [Hz]                          | 400           |
| Short-circuit proof                                  | yes           |
| Overload protection                                  | yes           |

## Detection zone

|                         |         |
|-------------------------|---------|
| Sensing range [mm]      | 5       |
| Operating distance [mm] | 0...4.1 |

## Accuracy / deviations

|                              |                                                                  |
|------------------------------|------------------------------------------------------------------|
| Correction factor            | stainless steel: 0.6 / brass: 0.3 / aluminium: 0.2 / copper: 0.1 |
| Hysteresis [% of Sr]         | 3...15                                                           |
| Switch point drift [% of Sr] | -15...15                                                         |

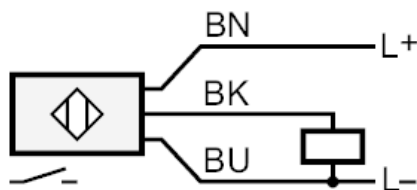
# IG6614



## Inductive high-temperature sensor

IGA3005ZBPKG/5M/SH

| Operating conditions                                                    |                           |                                                     |
|-------------------------------------------------------------------------|---------------------------|-----------------------------------------------------|
| Ambient temperature                                                     | [°C]                      | 0...180                                             |
| Protection                                                              |                           | IP 65                                               |
| Tests / approvals                                                       |                           |                                                     |
| EMC                                                                     | EN 61000-4-2 ESD          | 2 kV CD / 4 kV AD                                   |
|                                                                         | EN 61000-4-3 HF radiated  | 3 V/m                                               |
|                                                                         | EN 61000-4-4 Burst        | 2 kV                                                |
|                                                                         | EN 61000-4-6 HF conducted | 3 V                                                 |
| MTTF                                                                    | [years]                   | 682                                                 |
| Mechanical data                                                         |                           |                                                     |
| Weight                                                                  | [g]                       | 263                                                 |
| Housing                                                                 |                           | threaded type                                       |
| Mounting                                                                |                           | flush mountable                                     |
| Dimensions                                                              | [mm]                      | M18 x 1 / L = 70                                    |
| Thread designation                                                      |                           | M18 x 1                                             |
| Materials                                                               |                           | threaded sleeve: stainless steel; sensing face: LCP |
| Accessories                                                             |                           |                                                     |
| Items supplied                                                          |                           | lock nuts: 2                                        |
| Remarks                                                                 |                           |                                                     |
| Pack quantity                                                           |                           | 1 pcs.                                              |
| Electrical connection                                                   |                           |                                                     |
| Cable: 5 m, silicone, Ø 5 mm; highly flexible; 3 x 0.22 mm <sup>2</sup> |                           |                                                     |
| Connection                                                              |                           |                                                     |



Core colours :  
BK = black  
BN = brown  
BU = blue