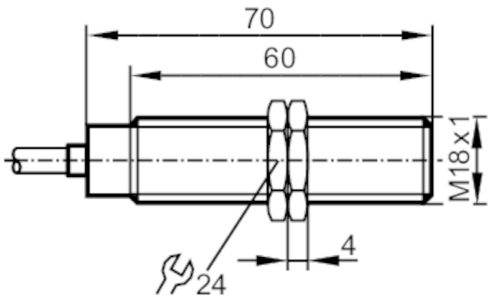


# IG6614



## 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                                                             |
| Monitoring range                                     |                                                                 |
| Sensing range [mm]                                   | 5                                                               |
| Operating distance [mm]                              | 0...4.1                                                         |
| Accuracy / deviations                                |                                                                 |
| Correction factor                                    | stainless steel: 0.6 / brass: 0.3 / aluminum: 0.2 / copper: 0.1 |
| Hysteresis [% of Sr]                                 | 3...15                                                          |
| Switch-point drift [% of Sr]                         | -15...15                                                        |

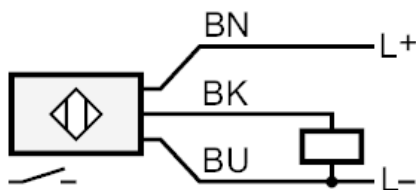
IG6614



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                                             |
| Material                                                    |                           | 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 mm² |                           |                                                     |
| Connection                                                  |                           |                                                     |



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