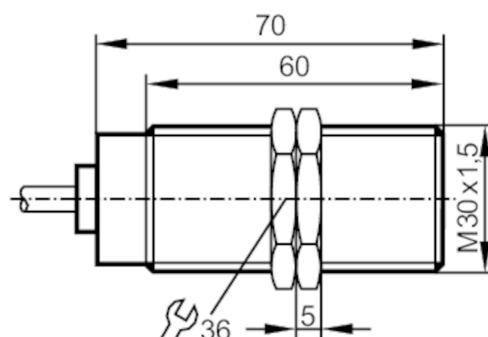




## Inductive high-temperature sensor

IIA3010ZBPKG/5M/SH



## Product characteristics

|                    |                    |
|--------------------|--------------------|
| Electrical design  | PNP                |
| Output function    | normally open      |
| Sensing range [mm] | 10                 |
| Housing            | Threaded type      |
| Dimensions [mm]    | M30 x 1.5 / 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                  |
| Permanent current rating of switching output DC [mA] | 150                |
| Switching frequency DC [Hz]                          | 200                |
| Short-circuit protection                             | yes                |
| Type of short-circuit protection                     | yes (non-latching) |
| Overload protection                                  | yes                |

## Monitoring range

|                         |         |
|-------------------------|---------|
| Sensing range [mm]      | 10      |
| Operating distance [mm] | 0...8.1 |



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| Accuracy / deviations |                           |                                                                            |
|-----------------------|---------------------------|----------------------------------------------------------------------------|
| Correction factor     |                           | steel: 1 / stainless steel: 0.6 / brass: 0.3 / aluminum: 0.2 / copper: 0.1 |
| Hysteresis            | [% of Sr]                 | 3...15                                                                     |
| Switch-point drift    | [% of Sr]                 | -10...10                                                                   |
| 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]                   | 692                                                                        |
| Mechanical data       |                           |                                                                            |
| Weight                | [g]                       | 355.5                                                                      |
| Housing               |                           | Threaded type                                                              |
| Mounting              |                           | flush mountable                                                            |
| Dimensions            | [mm]                      | M30 x 1.5 / L = 70                                                         |
| Thread designation    |                           | M30 x 1.5                                                                  |
| Material              |                           | housing: stainless steel; sensing face: LCP                                |
| Accessories           |                           |                                                                            |
| Items supplied        |                           | lock nuts: 2                                                               |
| Remarks               |                           |                                                                            |
| Pack quantity         |                           | 1 pcs.                                                                     |

# II5961



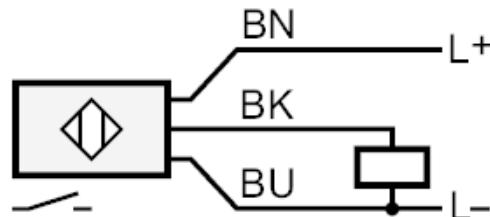
## Inductive high-temperature sensor

IIA3010ZBPKG/5M/SH

### Electrical connection

Cable: 5 m, silicone; highly flexible; 3 x 0.34 mm<sup>2</sup>

### Connection



Core colors :

|      |       |
|------|-------|
| BK = | black |
| BN = | brown |
| BU = | blue  |