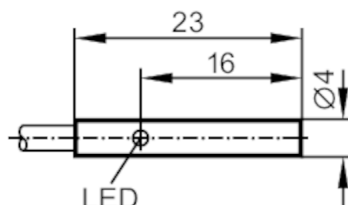


# IZ5051



## Inductive sensor

IZB30,8-BPKG/V2A/ZS



### Product characteristics

|                    |               |
|--------------------|---------------|
| Electrical design  | PNP           |
| Output function    | normally open |
| Sensing range [mm] | 0.8           |
| Housing            | cylindrical   |
| Dimensions [mm]    | Ø 4 / L = 23  |

### Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...30 DC |
| Current consumption [mA]    | 15; (24 V) |
| Protection class            | III        |
| 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           |
| Type of short-circuit protection                     | pulsed        |
| Overload protection                                  | yes           |

### Detection zone

|                               |                |
|-------------------------------|----------------|
| Sensing range [mm]            | 0.8            |
| Real sensing range $S_r$ [mm] | $0.8 \pm 10\%$ |
| Operating distance [mm]       | 0...0.65       |

### Accuracy / deviations

|                                  |                                                                             |
|----------------------------------|-----------------------------------------------------------------------------|
| Correction factor                | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3 |
| Hysteresis [% of $S_r$ ]         | 1...15                                                                      |
| Switch point drift [% of $S_r$ ] | -10...10                                                                    |

### Operating conditions

|                          |          |
|--------------------------|----------|
| Ambient temperature [°C] | -25...70 |
| Protection               | IP 65    |

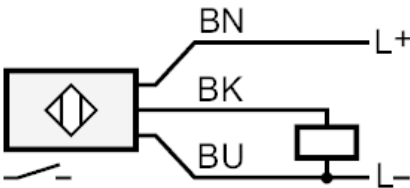
IZ5051



Inductive sensor

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| Tests / approvals                   |                           |                                                 |
|-------------------------------------|---------------------------|-------------------------------------------------|
| EMC                                 | EN 61000-4-2 ESD          | 4 kV CD / 8 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                                             |
|                                     | EN 55011                  | class B                                         |
| MTTF                                | [years]                   | 2060                                            |
| Mechanical data                     |                           |                                                 |
| Weight                              | [g]                       | 37.5                                            |
| Housing                             |                           | cylindrical                                     |
| Mounting                            |                           | flush mountable                                 |
| Dimensions                          | [mm]                      | Ø 4 / L = 23                                    |
| Materials                           |                           | stainless steel (303/1.4305); sensing face: POM |
| Displays / operating elements       |                           |                                                 |
| Display                             | switching status          | 1 x LED, yellow                                 |
| Accessories                         |                           |                                                 |
| Items supplied                      |                           | Mounting clamps: 1                              |
| Remarks                             |                           |                                                 |
| Pack quantity                       |                           | 1 pcs.                                          |
| Electrical connection               |                           |                                                 |
| Cable: 2 m, PUR / PVC; 3 x 0.14 mm² |                           |                                                 |
| Connection                          |                           |                                                 |



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