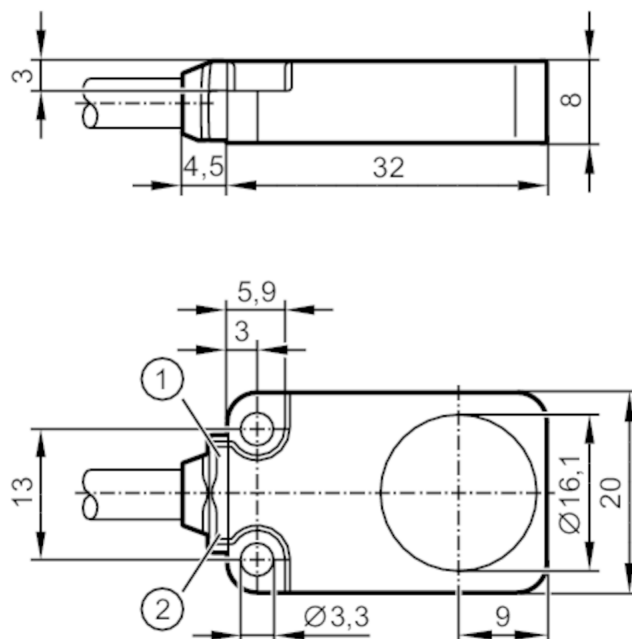




## Inductive sensor

IQ23008BBPKG/K1/0.3M/PUR/US



- 1 LED green  
2 LED yellow



## Product characteristics

|                    |               |
|--------------------|---------------|
| Electrical design  | PNP           |
| Output function    | normally open |
| Sensing range [mm] | 8             |
| Housing            | rectangular   |
| Dimensions [mm]    | 20 x 8 x 32   |

## Application

|        |                                                                        |
|--------|------------------------------------------------------------------------|
| System | Drag chain suitability; Increased sensing range; correction factor = 1 |
|--------|------------------------------------------------------------------------|

## Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...30 DC |
| Current consumption [mA]    | < 20       |
| 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           |
| Overload protection                                  | yes           |



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| Monitoring range              |                                          |                                                                                                   |
|-------------------------------|------------------------------------------|---------------------------------------------------------------------------------------------------|
| Sensing range                 | [mm]                                     | 8                                                                                                 |
| Real sensing range Sr         | [mm]                                     | 8 ± 10 %                                                                                          |
| Operating distance            | [mm]                                     | 0...6.48                                                                                          |
| Increased sensing range       |                                          | yes                                                                                               |
| Accuracy / deviations         |                                          |                                                                                                   |
| Correction factor             |                                          | steel: 1 / stainless steel: 1 / brass: 1 / aluminum: 1 / copper: 1                                |
| Hysteresis                    | [% of Sr]                                | 3...15                                                                                            |
| Switch-point drift            | [% of Sr]                                | -10...10                                                                                          |
| Correction factor = 1         |                                          | yes                                                                                               |
| Operating conditions          |                                          |                                                                                                   |
| Ambient temperature           | [°C]                                     | -40...85                                                                                          |
| Protection                    |                                          | IP 65; IP 66; IP 67; IP 68                                                                        |
| 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                                 | class B                                                                                           |
| Vibration resistance          | EN 60068-2-6 Fc                          | 20 g (10...3000 Hz) / 50 sweep cycles per frequency; 1 octave per minute in 3 axes                |
| Shock resistance              | EN 60068-2-27 Ea                         | 100 g 11 ms half-sine; 3 shocks each in every direction of the 3 coordinate axes                  |
| Continuous shock resistance   | EN 60068-2-27                            | 40 g 6 ms; 4000 shocks each in every direction of the 3 coordinate axes                           |
| Fast temperature changes      | EN 60068-2-14 Na                         | TA = -40°C; TB = 85°C; t1 = 30 min; t2 = < 10 s 50 cycles                                         |
| MTTF                          | [years]                                  | 1084                                                                                              |
| UL approval                   | Ta                                       | -40...60 °C                                                                                       |
|                               | Enclosure type                           | Type 1                                                                                            |
|                               | voltage supply                           | Limited Voltage/Current                                                                           |
|                               | UL approval number                       | A020                                                                                              |
|                               | File number UL                           | E174191                                                                                           |
| Mechanical data               |                                          |                                                                                                   |
| Weight                        | [g]                                      | 41.4                                                                                              |
| Housing                       |                                          | rectangular                                                                                       |
| Mounting                      |                                          | flush mountable                                                                                   |
| Dimensions                    | [mm]                                     | 20 x 8 x 32                                                                                       |
| Material                      |                                          | diecast zinc special coating; sensing face: LCP natural; LED window: TPU (urethane); potting: PUR |
| Drag chain suitability        |                                          | yes                                                                                               |
| Drag chain suitability        | Bending radius for flexible applications | min. 10 x cable diameter                                                                          |
|                               | Bending cycles                           | > 5 Mio.                                                                                          |
| Displays / operating elements |                                          |                                                                                                   |
| Display                       | Display operation                        | 1 x LED, green                                                                                    |
|                               | Switching status                         | 1 x LED, yellow                                                                                   |



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### Remarks

Pack quantity

1 pcs.

### Electrical connection

Cable: 0.3 m, PUR, Ø 4.9 mm; 3 x 0.34 mm<sup>2</sup>

Connector: 1 x M12; coding: A



### Connection

