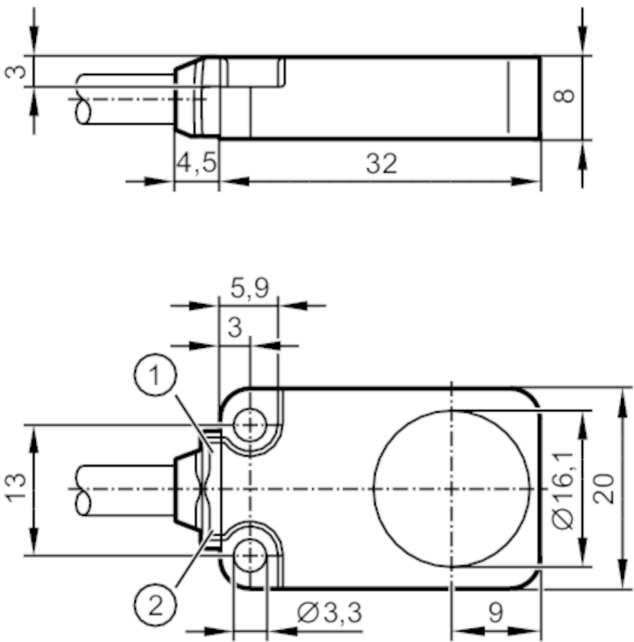




Inductive sensor

IQ23008BAPKG/K1/0.3M/PUR/US



- 1 LED green
- 2 LED yellow



| Product characteristics                              |                                                                          |
|------------------------------------------------------|--------------------------------------------------------------------------|
| Electrical design                                    | PNP                                                                      |
| Output function                                      | normally closed                                                          |
| Sensing range [mm]                                   | 8                                                                        |
| Housing                                              | rectangular                                                              |
| Dimensions [mm]                                      | 20 x 8 x 32                                                              |
| Application                                          |                                                                          |
| Special feature                                      | Drag chain suitability; Increased sensing range; Correction factor K = 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 closed                                                          |
| 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                                                                      |



## Inductive sensor

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| Detection zone                |                                 |                                                                                        |
|-------------------------------|---------------------------------|----------------------------------------------------------------------------------------|
| 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 / aluminium: 1 / copper: 1                    |
| Hysteresis                    | [% of Sr]                       | 3...15                                                                                 |
| Switch point drift            | [% of Sr]                       | -10...10                                                                               |
| Correction factor K = 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, 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 change       | 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                                                                                 |
|                               | power supply                    | Limited Voltage/Current                                                                |
|                               | UL Approval no.                 | A020                                                                                   |
|                               | File number UL                  | E174191                                                                                |
| Mechanical data               |                                 |                                                                                        |
| Weight                        | [g]                             | 41.2                                                                                   |
| Housing                       |                                 | rectangular                                                                            |
| Mounting                      |                                 | flush mountable                                                                        |
| Dimensions                    | [mm]                            | 20 x 8 x 32                                                                            |
| Materials                     |                                 | diecast zinc special coating; sensing face: LCP natural; LED window: TPU; potting: PUR |
| Drag chain suitability        |                                 | yes                                                                                    |
| Drag chain suitability        | bending radius for flexible use | 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                                                                        |



## Inductive sensor

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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

