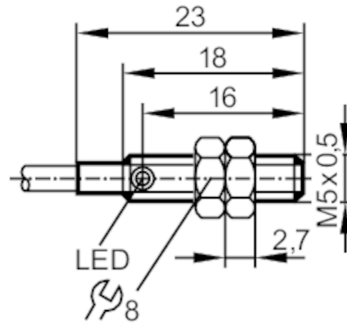


IY5052



Inductive sensor

IYB31,2-BPKG/V2A



Product characteristics

| | | |
|-------------------|------|-------------------|
| Electrical design | | PNP |
| Output function | | normally open |
| Sensing range | [mm] | 1.2 |
| Housing | | Threaded type |
| Dimensions | [mm] | M5 x 0.5 / 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 | | yes (non-latching) |
| Overload protection | | yes |

Monitoring range

| | | |
|--------------------|------|----------|
| Sensing range | [mm] | 1.2 |
| Operating distance | [mm] | 0...0.97 |

Accuracy / deviations

| | | |
|-------------------|-----------|--|
| Correction factor | | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.4 / copper: 0.3 |
| Hysteresis | [% of Sr] | 1...15 |

Operating conditions

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

IY5052



Inductive sensor

IYB31,2-BPKG/V2A

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] | 35 |
| Housing | | Threaded type |
| Mounting | | flush mountable |
| Dimensions | [mm] | M5 x 0.5 / L = 23 |
| Thread designation | | M5 x 0.5 |
| Material | | stainless steel (1.4305 / 303); sensing face: POM |
| Tightening torque | [Nm] | 2 |

Displays / operating elements

| | | |
|---------|------------------|-----------------|
| Display | Switching status | 1 x LED, yellow |
|---------|------------------|-----------------|

Accessories

| | |
|----------------|--------------|
| Items supplied | lock nuts: 2 |
|----------------|--------------|

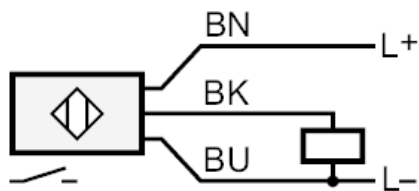
Remarks

| | |
|---------------|--------|
| Pack quantity | 1 pcs. |
|---------------|--------|

Electrical connection

Cable: 2 m, PUR; 3 x 0.14 mm²

Connection



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