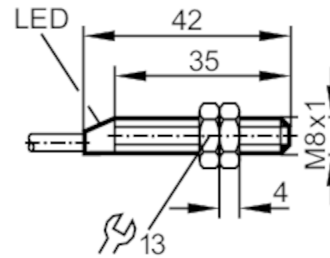


IE9203



Inductive sensor

IEB2002BARKG/2M/PUR RT



Electrical data

| | | |
|-----------------------------|-----|------------|
| Operating voltage | [V] | 10...55 DC |
| Protection class | | II |
| Reverse polarity protection | | yes |

Outputs

| | | |
|-------------------------------------------------|------|---------------|
| Electrical design | | PNP/NPN |
| Output function | | normally open |
| Max. voltage drop switching output DC | [V] | 4.5 |
| Minimum load current | [mA] | 5 |
| Max. leakage current | [mA] | 0.6 |
| Permanent current rating of switching output DC | [mA] | 100 |
| Switching frequency DC | [Hz] | 1000 |
| Short-circuit protection | | yes |
| Type of short-circuit protection | | pulsed |
| Overload protection | | yes |

Detection zone

| | | |
|-----------------------|------|----------|
| Sensing range | [mm] | 2 |
| Real sensing range Sr | [mm] | 2 ± 10 % |
| Operating distance | [mm] | 0...1.62 |

Accuracy / deviations

| | | |
|--------------------|-----------|-----------------------------------------------------------------------------|
| Correction factor | | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3 |
| Hysteresis | [% of Sr] | 3...15 |
| Switch point drift | [% of Sr] | -10...10 |

Operating conditions

| | | |
|---------------------|------|----------|
| Ambient temperature | [°C] | -25...80 |
| Protection | | IP 67 |

Tests / approvals

| | | | |
|------|---------|--------------|---------|
| EMC | | EN 60947-5-2 | class B |
| | | EN 55011 | |
| MTTF | [years] | 2460 | |

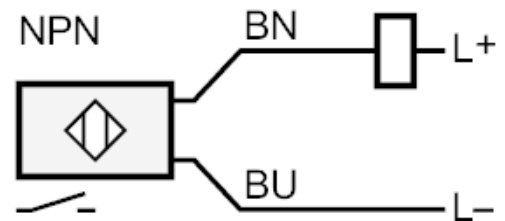
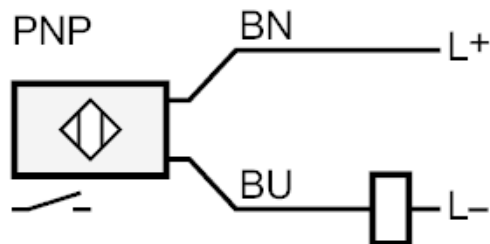
IE9203



Inductive sensor

IEB2002BARKG/2M/PUR RT

| Mechanical data | | |
|-------------------------------------------|------------------|---------------------------|
| Weight | [g] | 47.6 |
| Housing | | threaded type |
| Mounting | | flush mountable |
| Dimensions | [mm] | M8 x 1 / L = 42 |
| Thread designation | | M8 x 1 |
| Materials | | brass white bronze coated |
| Displays / operating elements | | |
| Display | switching status | 1 x LED, red |
| Accessories | | |
| Accessories (supplied) | | lock nuts: 2 |
| Remarks | | |
| Pack quantity | | 1 pcs. |
| Electrical connection | | |
| Cable: 2 m, PUR; 2 x 0.14 mm ² | | |
| Connection | | |



Core colours :

BN = brown
BU = blue