

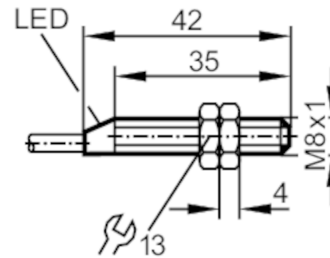
# IE9208



## Inductive sensor

IEB2002BARKG/2M/PUR

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### 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 $S_r$ [mm] | $2 \pm 10\%$ |
| 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 $S_r$ ]         | 3...15  |
| Switch point drift [% of $S_r$ ] | -10...10  |

### Operating conditions

|                          |          |
|--------------------------|----------|
| Ambient temperature [°C] | -25...70 |
| Protection               | IP 67    |

### Tests / approvals

|     |              |         |
|-----|--------------|---------|
| EMC | EN 60947-5-2 | class B |
|     | EN 55011     |         |

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| Mechanical data    |                           |
|--------------------|---------------------------|
| Housing            | threaded type             |
| Mounting           | flush mountable           |
| Dimensions [mm]    | M8 x 1 / L = 42           |
| Thread designation | M8 x 1                    |
| Materials          | brass white bronze coated |

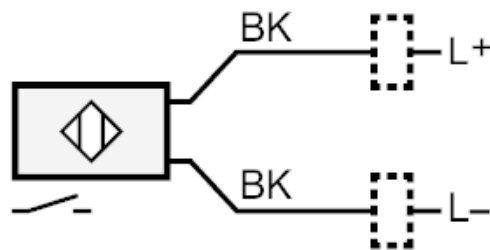
| Displays / operating elements |                  |                 |
|-------------------------------|------------------|-----------------|
| Display                       | switching status | 1 x LED, yellow |

| Accessories            |              |
|------------------------|--------------|
| Accessories (supplied) | lock nuts: 2 |

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

**Electrical connection**  
Cable: 2 m, PVC; 2 x 0.14 mm<sup>2</sup>

### Connection



Core colours :

BK = black

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