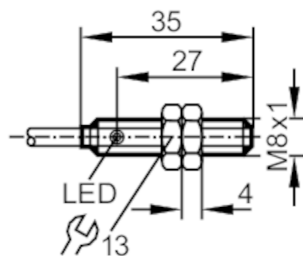


## Inductive sensor

IEC2002-BROG



## Product characteristics

|                    |                 |
|--------------------|-----------------|
| Electrical design  | PNP/NPN         |
| Output function    | normally closed |
| Sensing range [mm] | 2               |
| Housing            | threaded type   |
| Dimensions [mm]    | M8 x 1 / L = 35 |

## Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...30 DC |
| Protection class            | III        |
| Reverse polarity protection | yes        |

## Outputs

|                                                      |                 |
|------------------------------------------------------|-----------------|
| Electrical design                                    | PNP/NPN         |
| Output function                                      | normally closed |
| Max. voltage drop switching output DC [V]            | 3.5             |
| Minimum load current [mA]                            | 4               |
| Max. leakage current [mA]                            | 0.8             |
| Permanent current rating of switching output DC [mA] | 100             |
| Switching frequency DC [Hz]                          | 2000            |
| Short-circuit protection                             | no              |
| Overload protection                                  | no              |

## 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: 0.4 / aluminium: 0.3 / copper: 0.2 |
| Hysteresis [% of $S_r$ ]         | 1...15                                                                      |
| Switch point drift [% of $S_r$ ] | -10...10                                                                    |

## Operating conditions

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

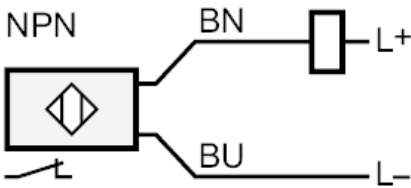
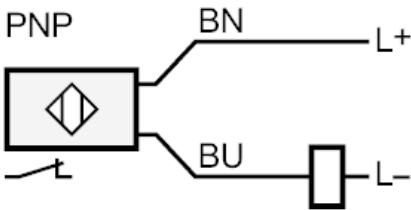
IE5192



Inductive sensor

IEC2002-BROG

| Tests / approvals             |                           |                     |
|-------------------------------|---------------------------|---------------------|
| EMC                           | EN 61000-4-2 ESD          | 4 kV DC / 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]                   | 4529                |
| Mechanical data               |                           |                     |
| Weight                        | [g]                       | 38.6                |
| Housing                       |                           | threaded type       |
| Mounting                      |                           | non-flush mountable |
| Dimensions                    | [mm]                      | M8 x 1 / L = 35     |
| Thread designation            |                           | M8 x 1              |
| Materials                     |                           | PBT                 |
| Tightening torque             | [Nm]                      | 0.25                |
| Displays / operating elements |                           |                     |
| Display                       | switching status          | 1 x LED, yellow     |
| Accessories                   |                           |                     |
| Items supplied                | lock nuts: 2              |                     |
|                               | rubber washers: 2         |                     |
| Remarks                       |                           |                     |
| Pack quantity                 | 1 pcs.                    |                     |
| Electrical connection         |                           |                     |
| Cable: 2 m, PVC; 2 x 0.14 mm² |                           |                     |
| Connection                    |                           |                     |



BN = Core colours :  
brown  
BU = blue