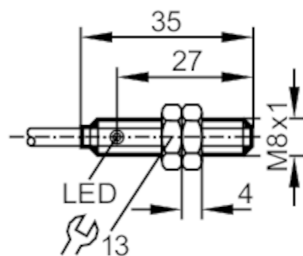


## Inductive sensor

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...36 DC |
| Protection class            | III        |
| Reverse polarity protection | no         |

## Outputs

|                                                      |                 |
|------------------------------------------------------|-----------------|
| Electrical design                                    | PNP/NPN         |
| Output function                                      | normally closed |
| Max. voltage drop switching output DC [V]            | 2.6             |
| Minimum load current [mA]                            | 4               |
| Max. leakage current [mA]                            | 0.8             |
| Permanent current rating of switching output DC [mA] | 200             |
| 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...1.6       |

## 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

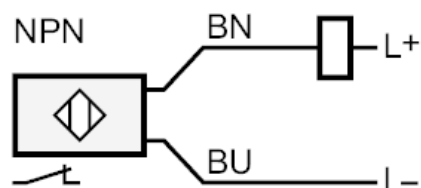
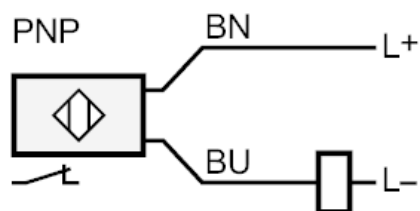
|                          |          |
|--------------------------|----------|
| Ambient temperature [°C] | -25...80 |
| Protection               | IP 67    |



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| Tests / approvals                         |                  |                     |
|-------------------------------------------|------------------|---------------------|
| EMC                                       | EN 60947-5-2     |                     |
| 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                 |
| 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, PVC; 2 x 0.14 mm <sup>2</sup> |                  |                     |
| Connection                                |                  |                     |



BN = Core colours :  
brown  
BU = blue