



Inductive sensor

II-3015-BPKG



| Product characteristics                         |           |                                                                             |
|-------------------------------------------------|-----------|-----------------------------------------------------------------------------|
| Electrical design                               |           | PNP                                                                         |
| Output function                                 |           | normally open                                                               |
| Sensing range                                   | [mm]      | 15                                                                          |
| Housing                                         |           | threaded type                                                               |
| Dimensions                                      | [mm]      | M30 x 1.5 / L = 81                                                          |
| Electrical data                                 |           |                                                                             |
| Operating voltage                               | [V]       | 10...36 DC                                                                  |
| Current consumption                             | [mA]      | 15; (24 V)                                                                  |
| Protection class                                |           | II                                                                          |
| 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]      | 250                                                                         |
| Switching frequency DC                          | [Hz]      | 250                                                                         |
| Short-circuit protection                        |           | yes                                                                         |
| Type of short-circuit protection                |           | pulsed                                                                      |
| Overload protection                             |           | yes                                                                         |
| Detection zone                                  |           |                                                                             |
| Sensing range                                   | [mm]      | 15                                                                          |
| Real sensing range Sr                           | [mm]      | 15 ± 10 %                                                                   |
| Operating distance                              | [mm]      | 0...12.1                                                                    |
| Accuracy / deviations                           |           |                                                                             |
| Correction factor                               |           | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2 |
| Hysteresis                                      | [% of Sr] | 1...15                                                                      |



## Inductive sensor

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|                    |           |          |
|--------------------|-----------|----------|
| Switch point drift | [% of Sr] | -10...10 |
|--------------------|-----------|----------|

## Operating conditions

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

## Tests / approvals

|      |              |      |
|------|--------------|------|
| EMC  | EN 60947-5-2 |      |
| MTTF | [years]      | 1853 |

## Mechanical data

|                    |      |                     |
|--------------------|------|---------------------|
| Weight             | [g]  | 187.5               |
| Housing            |      | threaded type       |
| Mounting           |      | non-flush mountable |
| Dimensions         | [mm] | M30 x 1.5 / L = 81  |
| Thread designation |      | M30 x 1.5           |
| Materials          |      | PBT                 |

## Displays / operating elements

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

## Accessories

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

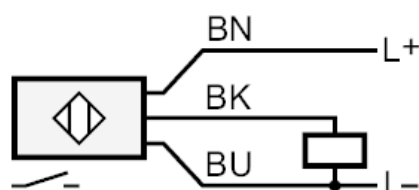
## Remarks

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

## Electrical connection

Cable: 2 m, PVC; 3 x 0.5 mm<sup>2</sup>

## Connection



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