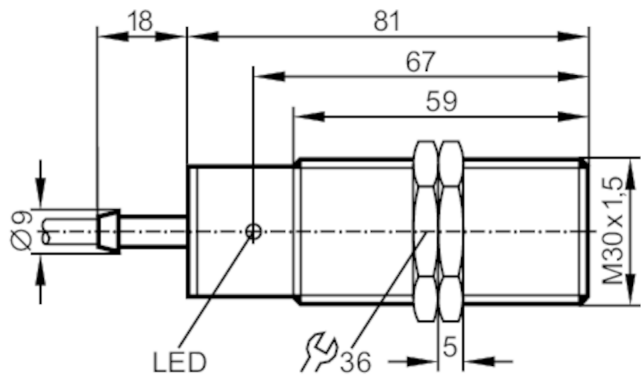




Inductive sensor

II-2015-FRKG/PH



| Product characteristics                              |                                                                             |
|------------------------------------------------------|-----------------------------------------------------------------------------|
| Electrical design                                    | PNP/NPN                                                                     |
| Output function                                      | normally open / normally closed; (selectable)                               |
| Sensing range [mm]                                   | 15                                                                          |
| Housing                                              | threaded type                                                               |
| Dimensions [mm]                                      | M30 x 1.5 / L = 81                                                          |
| Electrical data                                      |                                                                             |
| Operating voltage [V]                                | 10...55 DC                                                                  |
| Protection class                                     | II                                                                          |
| Reverse polarity protection                          | yes                                                                         |
| Outputs                                              |                                                                             |
| Electrical design                                    | PNP/NPN                                                                     |
| Output function                                      | normally open / normally closed; (selectable)                               |
| Max. voltage drop switching output DC [V]            | 4.6                                                                         |
| Minimum load current [mA]                            | 4                                                                           |
| Max. leakage current [mA]                            | 0.6                                                                         |
| Permanent current rating of switching output DC [mA] | 400                                                                         |
| Switching frequency DC [Hz]                          | 200                                                                         |
| 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 |



Inductive sensor

II-2015-FRKG/PH

|                    |           |          |
|--------------------|-----------|----------|
| Hysteresis         | [% of Sr] | 1...20   |
| Switch point drift | [% of Sr] | -10...10 |

Operating conditions

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

Tests / approvals

|      |                           |                                |
|------|---------------------------|--------------------------------|
| EMC  | EN 61000-4-2 ESD          | - kV CD / 15 kV AD             |
|      | EN 61000-4-3 HF radiated  | 10 V/m                         |
|      | EN 61000-4-4 Burst        | 2 kV                           |
|      | EN 61000-4-5 Surge        | 0,5 kV line to line, Ri: 2 Ohm |
|      | EN 61000-4-6 HF conducted | 10 V                           |
|      | EN 55011                  | class B                        |
| MTTF | [years]                   | 1835                           |

Mechanical data

|                    |      |                                                 |
|--------------------|------|-------------------------------------------------|
| Weight             | [g]  | 175.5                                           |
| Housing            |      | threaded type                                   |
| Mounting           |      | non-flush mountable                             |
| Dimensions         | [mm] | M30 x 1.5 / L = 81                              |
| Thread designation |      | M30 x 1.5                                       |
| Materials          |      | housing: PBT; end cap: TPU; lock nuts: plastics |

Displays / operating elements

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

Accessories

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

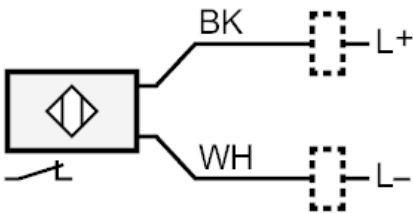
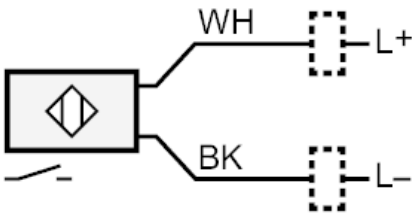
Remarks

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

Electrical connection

Cable: 2 m, PUR / PVC; 2 x 0.5 mm²

Connection



BK =  
WH =

Core colours :  
black  
white