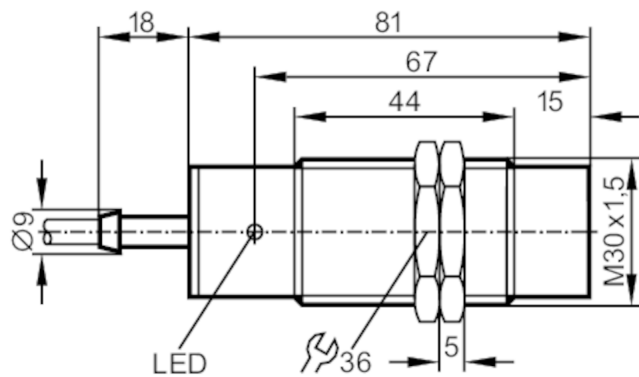




Inductive sensor

I1A3015-APKG



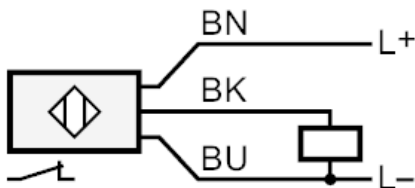
| Product characteristics                         |           |                                                                             |
|-------------------------------------------------|-----------|-----------------------------------------------------------------------------|
| Electrical design                               |           | PNP                                                                         |
| Output function                                 |           | normally closed                                                             |
| 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 closed                                                             |
| 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

IIA3015-APKG

|                               |                  |                          |
|-------------------------------|------------------|--------------------------|
| 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]          | 1844                     |
| Mechanical data               |                  |                          |
| Weight                        | [g]              | 248                      |
| Housing                       |                  | threaded type            |
| Mounting                      |                  | non-flush mountable      |
| Dimensions                    | [mm]             | M30 x 1.5 / L = 81       |
| Thread designation            |                  | M30 x 1.5                |
| Materials                     |                  | brass nickel-plated; 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 mm²  |                  |                          |
| Connection                    |                  |                          |



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