

## Inductive sensor

IIA3010-APKG/ 6m

Article no longer available - archive entry



## Product characteristics

|                    |                    |
|--------------------|--------------------|
| Electrical design  | PNP                |
| Output function    | normally closed    |
| Sensing range [mm] | 10                 |
| 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]            | 10             |
| Real sensing range $S_r$ [mm] | $10 \pm 10 \%$ |
| Operating distance [mm]       | 0...8.1        |

## Accuracy / deviations

|                   |                                                                             |
|-------------------|-----------------------------------------------------------------------------|
| Correction factor | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2 |
|-------------------|-----------------------------------------------------------------------------|



## Inductive sensor

IIA3010-APKG/ 6m

|                    |           |          |
|--------------------|-----------|----------|
| Hysteresis         | [% of Sr] | 1...15   |
| Switch point drift | [% of Sr] | -10...10 |

## Operating conditions

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

## Tests / approvals

|      |              |         |
|------|--------------|---------|
| EMC  | EN 60947-5-2 |         |
|      | EN 55011     | class B |
| MTTF | [years]      | 1844    |

## Mechanical data

|                    |      |                          |
|--------------------|------|--------------------------|
| Housing            |      | threaded type            |
| Mounting           |      | 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 |
|----------------|--|--------------|

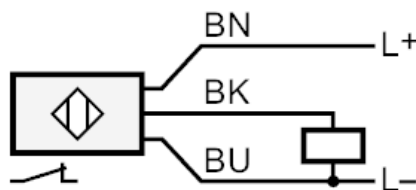
## Remarks

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

## Electrical connection

Cable: 6 m, PVC; 3 x 0.5 mm<sup>2</sup>

## Connection



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