

## Inductive sensor

IIA3010-BNOG/V4A/ 6m

Article no longer available - archive entry



## Product characteristics

|                    |                    |
|--------------------|--------------------|
| Electrical design  | NPN                |
| 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...55 DC |
| Current consumption [mA]    | 7; (24 V)  |
| Protection class            | II         |
| Reverse polarity protection | no         |

## Outputs

|                                                      |                 |
|------------------------------------------------------|-----------------|
| Electrical design                                    | NPN             |
| Output function                                      | normally closed |
| Max. voltage drop switching output DC [V]            | 1               |
| Permanent current rating of switching output DC [mA] | 400             |
| Switching frequency DC [Hz]                          | 50              |
| Short-circuit protection                             | no              |
| Overload protection                                  | no              |

## Detection zone

|                               |                |
|-------------------------------|----------------|
| Sensing range [mm]            | 10             |
| Real sensing range $S_r$ [mm] | $10 \pm 10 \%$ |
| Operating distance [mm]       | 0...8.1        |

## Accuracy / deviations

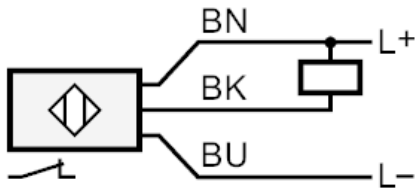
|                                  |                                                                             |
|----------------------------------|-----------------------------------------------------------------------------|
| Correction factor                | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.4 / copper: 0.3 |
| Hysteresis [% of $S_r$ ]         | 1...15                                                                      |
| Switch point drift [% of $S_r$ ] | -10...10                                                                    |



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| Operating conditions          |                  |                                     |
|-------------------------------|------------------|-------------------------------------|
| Ambient temperature           | [°C]             | -25...80                            |
| Protection                    |                  | IP 67                               |
| Mechanical data               |                  |                                     |
| Housing                       |                  | threaded type                       |
| Mounting                      |                  | flush mountable                     |
| Dimensions                    | [mm]             | M30 x 1.5 / L = 81                  |
| Thread designation            |                  | M30 x 1.5                           |
| Materials                     |                  | stainless steel (316Ti/1.4571); 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 mm²  |                  |                                     |
| Connection                    |                  |                                     |



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