



## Inductive sensor

IA-3010-BNOG/10m

Article no longer available - archive entry



## Product characteristics

|                    |                 |
|--------------------|-----------------|
| Electrical design  | NPN             |
| Output function    | normally closed |
| Sensing range [mm] | 10              |
| Housing            | cylindrical     |
| Dimensions [mm]    | Ø 20            |

## Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...30 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]            | 1.5             |
| Permanent current rating of switching output DC [mA] | 200             |
| Switching frequency DC [Hz]                          | 100             |
| 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        |



## Inductive sensor

IA-3010-BNOG/10m

| Accuracy / deviations         |           |                                                                             |              |
|-------------------------------|-----------|-----------------------------------------------------------------------------|--------------|
| Correction factor             |           | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2 |              |
| 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      |
| Mechanical data               |           |                                                                             |              |
| Housing                       |           | cylindrical                                                                 |              |
| Mounting                      |           | non-flush mountable                                                         |              |
| Dimensions                    | [mm]      | Ø 20                                                                        |              |
| Materials                     |           | PBT                                                                         |              |
| Displays / operating elements |           |                                                                             |              |
| Display                       |           | switching status                                                            | 1 x LED, red |
| Accessories                   |           |                                                                             |              |
| Items supplied                |           | Mounting clamps: 1                                                          |              |
| Remarks                       |           |                                                                             |              |
| Pack quantity                 |           | 1 pcs.                                                                      |              |
| Electrical connection         |           |                                                                             |              |
| Cable: 10 m, PVC; 3 x 0.5 mm² |           |                                                                             |              |
| Connection                    |           |                                                                             |              |



Core colours :

BN = brown

BU = blue

BK = black