

## Inductive sensor

IA-3010-BPKG/6M/PH

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## Product characteristics

|                    |               |
|--------------------|---------------|
| Electrical design  | PNP           |
| Output function    | normally open |
| Sensing range [mm] | 10            |
| Housing            | cylindrical   |
| Dimensions [mm]    | Ø 20 / L = 77 |

## 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 open |
| Max. voltage drop switching output DC [V]            | 2.5           |
| Permanent current rating of switching output DC [mA] | 250           |
| Switching frequency DC [Hz]                          | 300           |
| Short-circuit protection                             | yes           |
| Type of short-circuit protection                     | pulsed        |
| Overload protection                                  | yes           |

## Detection zone

|                            |           |
|----------------------------|-----------|
| Sensing range [mm]         | 10        |
| Real sensing range Sr [mm] | 10 ± 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 |
| Hysteresis [% of Sr]         | 1...15                                                                      |
| Switch point drift [% of Sr] | -10...10                                                                    |

# IA5103



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| Operating conditions                           |                  |                     |
|------------------------------------------------|------------------|---------------------|
| Ambient temperature                            | [°C]             | -25...80            |
| Protection                                     |                  | IP 67               |
| Tests / approvals                              |                  |                     |
| EMC                                            |                  | EN 60947-5-2        |
| MTTF                                           | [years]          | 1853                |
| Mechanical data                                |                  |                     |
| Housing                                        |                  | cylindrical         |
| Mounting                                       |                  | non-flush mountable |
| Dimensions                                     | [mm]             | Ø 20 / L = 77       |
| Materials                                      |                  | PBT                 |
| Displays / operating elements                  |                  |                     |
| Display                                        | switching status | 1 x LED, yellow     |
| Accessories                                    |                  |                     |
| Items supplied                                 |                  | Mounting clamps: 1  |
| Remarks                                        |                  |                     |
| Pack quantity                                  |                  | 1 pcs.              |
| Electrical connection                          |                  |                     |
| Cable: 6 m, PUR / PVC; 3 x 0.5 mm <sup>2</sup> |                  |                     |
| Connection                                     |                  |                     |



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