

## Inductive sensor

IIA2010-FRKG/V2A/US-100-IRF

Article no longer available - archive entry

Alternative articles: II5751

When selecting an alternative article and accessories please note that technical data may differ!



## Product characteristics

|                    |                                               |
|--------------------|-----------------------------------------------|
| Electrical design  | PNP/NPN                                       |
| Output function    | normally open / normally closed; (selectable) |
| Sensing range [mm] | 10                                            |
| Housing            | threaded type                                 |
| Dimensions [mm]    | M30 x 1.5 / L = 81                            |

## Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...55 DC |
| Protection class            | II         |
| Reverse polarity protection | yes        |

## Outputs

|                                                      |                                               |
|------------------------------------------------------|-----------------------------------------------|
| Electrical design                                    | PNP/NPN                                       |
| Output function                                      | normally open / normally closed; (selectable) |
| Max. voltage drop switching output DC [V]            | 4.6                                           |
| Minimum load current [mA]                            | 4                                             |
| Permanent current rating of switching output DC [mA] | 400                                           |
| Switching frequency DC [Hz]                          | 450                                           |
| 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        |

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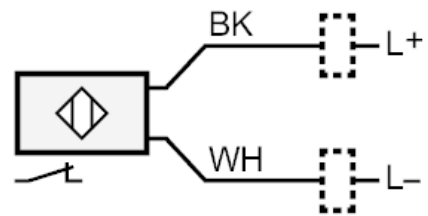
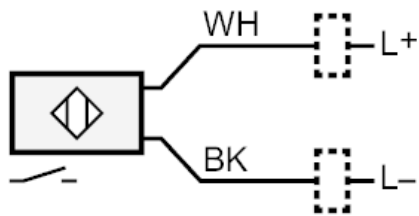
| Accuracy / deviations                                                                          |                  |                                                                             |
|------------------------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------|
| Correction factor                                                                              |                  | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.4 / copper: 0.3 |
| 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                                                                                        |                  | 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); sensing face: PBT                           |
| Displays / operating elements                                                                  |                  |                                                                             |
| Display                                                                                        | switching status | 1 x LED, yellow                                                             |
| Accessories                                                                                    |                  |                                                                             |
| Items supplied                                                                                 |                  | lock nuts: 2                                                                |
| Remarks                                                                                        |                  |                                                                             |
| Pack quantity                                                                                  |                  | 1 pcs.                                                                      |
| Electrical connection - plug                                                                   |                  |                                                                             |
| Connector: 1 x M12; coding: A                                                                  |                  |                                                                             |
| <div></div> |                  |                                                                             |



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### Connection



BK = Core colours :  
 WH = black  
 white