

## Inductive sensor

II-2015-FRKG/50M

Article no longer available - archive entry



## Product characteristics

|                    |                                               |
|--------------------|-----------------------------------------------|
| Electrical design  | PNP/NPN                                       |
| Output function    | normally open / normally closed; (selectable) |
| Sensing range [mm] | 15                                            |
| 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                                             |
| Max. leakage current [mA]                            | 0.5                                           |
| Permanent current rating of switching output DC [mA] | 400                                           |
| Switching frequency DC [Hz]                          | 200                                           |
| Short-circuit protection                             | yes                                           |
| Type of short-circuit protection                     | pulsed                                        |
| Overload protection                                  | yes                                           |

## Detection zone

|                               |                |
|-------------------------------|----------------|
| Sensing range [mm]            | 15             |
| Real sensing range $S_r$ [mm] | $15 \pm 10 \%$ |
| Operating distance [mm]       | 0...12.1       |



## Inductive sensor

II-2015-FRKG/50M

## 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            | threaded type       |
| Mounting           | non-flush mountable |
| Dimensions [mm]    | M30 x 1.5 / L = 81  |
| Thread designation | M30 x 1.5           |
| Materials          | PBT                 |

## Displays / operating elements

|         |                  |                 |
|---------|------------------|-----------------|
| Display | switching status | 1 x LED, yellow |
|---------|------------------|-----------------|

## Accessories

|                |              |
|----------------|--------------|
| Items supplied | lock nuts: 2 |
|----------------|--------------|

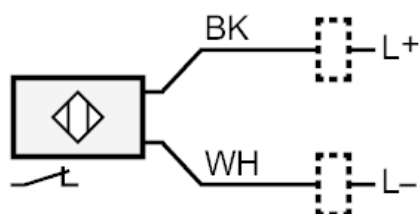
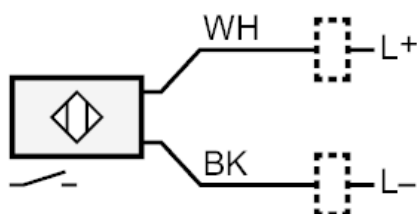
## Remarks

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

## Electrical connection

Cable: 50 m, PUR / PVC; 2 x 0.5 mm<sup>2</sup>

## Connection



Core colours :  
 BK = black  
 WH = white