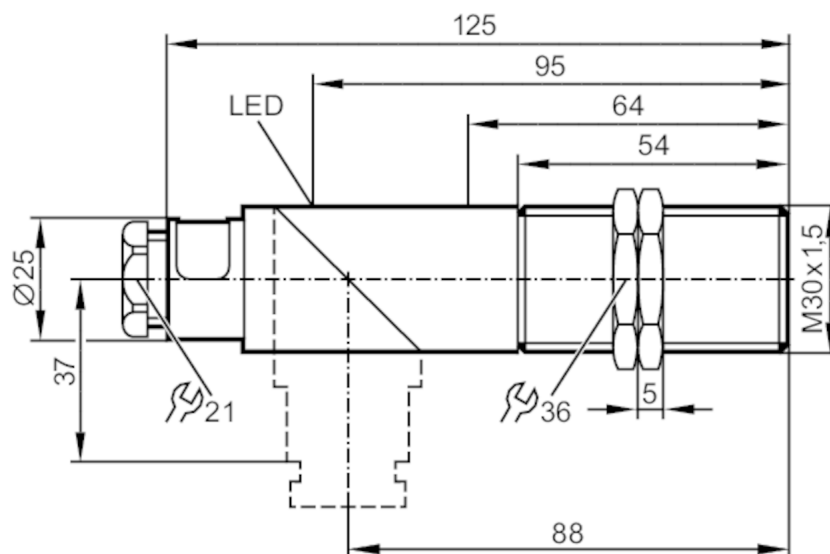


## Inductive sensor

IIE2015-FRKG



## 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 = 125                           |

## 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]                            | 1                                             |
| 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 Sr [mm] | 15 ± 10 % |



## Inductive sensor

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|                    |      |          |
|--------------------|------|----------|
| Operating distance | [mm] | 0...12.1 |
|--------------------|------|----------|

## Accuracy / deviations

|                    |           |          |
|--------------------|-----------|----------|
| Hysteresis         | [% of Sr] | 1...15   |
| Switch point drift | [% of Sr] | -10...10 |

## Operating conditions

|                     |      |          |
|---------------------|------|----------|
| Ambient temperature | [°C] | -25...80 |
| Protection          |      | IP 65    |

## Tests / approvals

|      |              |         |
|------|--------------|---------|
| EMC  | EN 60947-5-2 |         |
|      | EN 55011     | class B |
| MTTF | [years]      | 1699    |

## Mechanical data

|                    |      |                                |
|--------------------|------|--------------------------------|
| Weight             | [g]  | 116                            |
| Housing            |      | threaded type                  |
| Mounting           |      | non-flush mountable            |
| Dimensions         | [mm] | M30 x 1.5 / L = 125            |
| Thread designation |      | M30 x 1.5                      |
| Materials          |      | PBT; bevelled housing part: PC |

## Displays / operating elements

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

## Accessories

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

## Remarks

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

## Electrical connection

terminals: ...2.5 mm<sup>2</sup>; Cable sheath: Ø 7...13 mm; Cable gland: M20 X 1.5

## Connection

