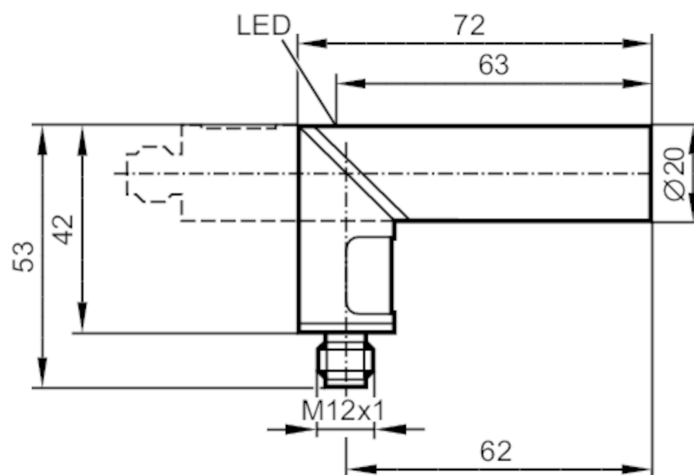


# IA5136



## Inductive sensor

IAE3010-APKG/US-100/ANGLED



### 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 closed |
| 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 $S_r$ | [mm] | $10 \pm 10 \%$ |
| 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 $S_r$ ] | 1...15                                                                      |
| Switch point drift | [% of $S_r$ ] | -10...10                                                                    |

### Operating conditions

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



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## Tests / approvals

|      |                           |                                |
|------|---------------------------|--------------------------------|
| EMC  | EN 61000-4-2 ESD          | - CD / 8 kV AD                 |
|      | EN 61000-4-3 HF radiated  | 3 V                            |
|      | EN 61000-4-4 Burst        | 2 kV                           |
|      | EN 61000-4-5 Surge        | 0,5 kV line to line, Ri: 2 Ohm |
|      | EN 61000-4-6 HF conducted | 3 V                            |
|      | EN 55011                  | class B                        |
| MTTF | [years]                   | 1076                           |

## Mechanical data

|            |      |                     |
|------------|------|---------------------|
| Weight     | [g]  | 98.4                |
| Housing    |      | cylindrical         |
| Mounting   |      | flush mountable     |
| Dimensions | [mm] | Ø 20 / L = 72       |
| Materials  |      | PBT; LED window: PC |

## Displays / operating elements

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

## Accessories

|                        |                    |
|------------------------|--------------------|
| Accessories (supplied) | Mounting clamps: 1 |
|------------------------|--------------------|

## Remarks

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

## Electrical connection - plug

Connector: 1 x M12



## Connection

