

# IA5136



## Inductive sensor

IAE3010-APKG/US-100/ANGLED



### Product characteristics

|                    |                 |
|--------------------|-----------------|
| Electrical design  | PNP             |
| Output function    | normally closed |
| Sensing range [mm] | 10              |
| Housing            | tubular         |
| Dimensions [mm]    | Ø 20 / L = 72   |

### Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...36 DC |
| Current consumption [mA]    | 15; (24 V) |
| Protection class            | III        |
| 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                     | yes (non-latching) |
| Overload protection                                  | yes                |

### Monitoring range

|                               |                |
|-------------------------------|----------------|
| 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 / aluminum: 0.3 / copper: 0.2 |
|-------------------|----------------------------------------------------------------------------|

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|                    |           |          |
|--------------------|-----------|----------|
| 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 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]  | 99                  |
| Housing    |      | tubular             |
| Mounting   |      | non-flush mountable |
| Dimensions | [mm] | Ø 20 / L = 72       |
| Material   |      | PBT; LED window: PC |

### Displays / operating elements

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

### Accessories

|                |                   |
|----------------|-------------------|
| Items supplied | Mounting clamp: 1 |
|----------------|-------------------|

### Remarks

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

### Electrical connection - plug

Connector: 1 x M12; coding: A



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### Connection

