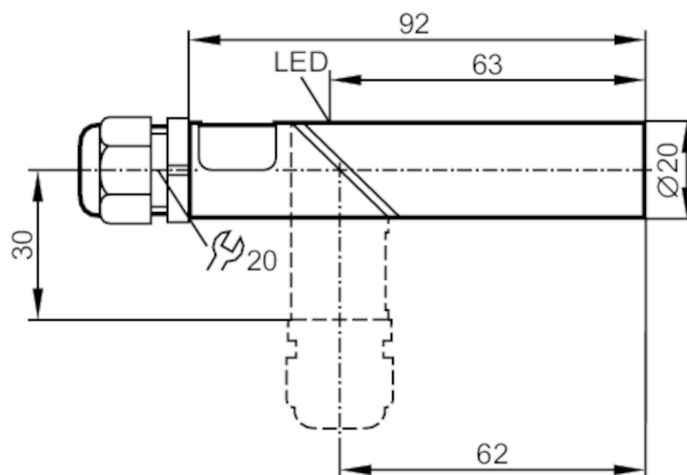


## Inductive sensor

IAE3010-BPKG/3D

Article no longer available - archive entry



## Product characteristics

|                    |               |
|--------------------|---------------|
| Electrical design  | PNP           |
| Output function    | normally open |
| Sensing range [mm] | 10            |
| Housing            | cylindrical   |
| Dimensions [mm]    | Ø 20 / L = 92 |

## 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 open |
| Max. voltage drop switching output DC [V]            | 2.5           |
| Permanent current rating of switching output DC [mA] | 250           |
| Short-time current rating of switching output [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 Sr [mm] | 10 ± 10 % |

# IA501A



## Inductive sensor

IAE3010-BPKG/3D

|                    |      |         |
|--------------------|------|---------|
| 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         | [X01] | 1...15                                                                      |
| Switch point drift | [X01] | -10...10                                                                    |

### Operating conditions

|                             |      |                                                      |
|-----------------------------|------|------------------------------------------------------|
| Ambient temperature         | [°C] | -20...60                                             |
| Note on ambient temperature |      | when used outside the hazardous area: -25...80 °C    |
| Protection                  |      | IP 54; (when used outside the hazardous area: IP 65) |

### Tests / approvals

|              |  |                                                                                                                |
|--------------|--|----------------------------------------------------------------------------------------------------------------|
| ATEX marking |  |  II 3D Ex tD A22 IP54 T95°C X |
| EMC          |  | EN 60947-5-2                                                                                                   |

### Mechanical data

|                                   |      |                     |
|-----------------------------------|------|---------------------|
| Weight                            | [g]  | 0.105               |
| Housing                           |      | cylindrical         |
| Mounting                          |      | non-flush mountable |
| Dimensions                        | [mm] | Ø 20 / L = 92       |
| Materials                         |      | PBT; LED window: PC |
| Tightening torque for cable gland | [Nm] | 3                   |

### Displays / operating elements

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

### Аксессуары

|                |  |                     |
|----------------|--|---------------------|
| Items supplied |  | кріпильні хомути: 1 |
|----------------|--|---------------------|

### Remarks

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

### Electrical connection

terminals: ...2.5 mm<sup>2</sup>; Cable sheath: Ø 5.5...13 mm

### Connection

