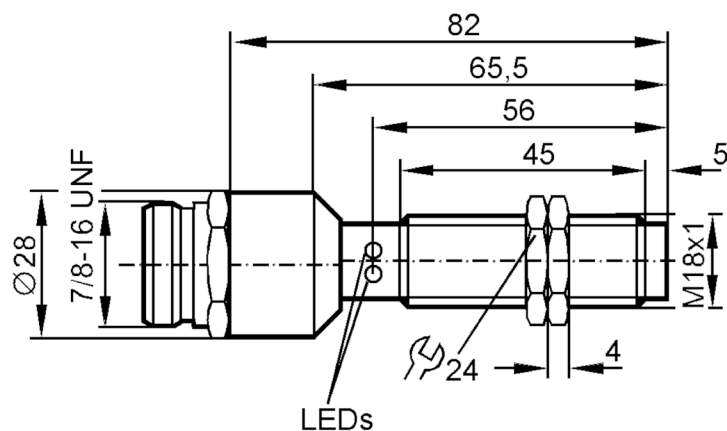


## Inductive sensor

IGA2005UARLA/SC/SL/LS-300BL

Article no longer available - archive entry



### Product characteristics

|                 |      |               |
|-----------------|------|---------------|
| Output function |      | normally open |
| Sensing range   | [mm] | 5             |
| Housing         |      | threaded type |
| Dimensions      | [mm] | M18 x 1       |

### Application

|                       |  |                       |
|-----------------------|--|-----------------------|
| Special feature       |  | Magnetic-field immune |
| Magnetic-field immune |  | yes                   |

### Electrical data

|                             |      |                |
|-----------------------------|------|----------------|
| Frequency AC                | [Hz] | 47...63        |
| Operating voltage           | [V]  | 20...140 AC/DC |
| Protection class            |      | I              |
| Reverse polarity protection |      | no             |

### Outputs

|                                                 |      |                   |
|-------------------------------------------------|------|-------------------|
| Output function                                 |      | normally open     |
| Max. voltage drop switching output DC           | [V]  | 5.5               |
| Max. voltage drop switching output AC           | [V]  | 5.5               |
| Minimum load current                            | [mA] | 5.5               |
| Max. leakage current                            | [mA] | 1.7 (140 V AC/DC) |
| Permanent current rating of switching output AC | [mA] | 300               |



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|                                                 |      |                                                  |
|-------------------------------------------------|------|--------------------------------------------------|
| Permanent current rating of switching output DC | [mA] | 420                                              |
| Short-time current rating of switching output   | [mA] | 420; (/ 300 AC (20ms / 0,5Hz))                   |
| Switching frequency AC                          | [Hz] | 25                                               |
| Switching frequency DC                          | [Hz] | 500                                              |
| Short-circuit protection                        |      | yes                                              |
| Type of short-circuit protection                |      | latching (restart interlock after short circuit) |
| Overload protection                             |      | no                                               |

## Detection zone

|                       |      |          |
|-----------------------|------|----------|
| Sensing range         | [mm] | 5        |
| Real sensing range Sr | [mm] | 5 ± 10 % |
| Operating distance    | [mm] | 0...4.05 |

## Accuracy / deviations

|                    |           |                                                                             |
|--------------------|-----------|-----------------------------------------------------------------------------|
| Correction factor  |           | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2 |
| Hysteresis         | [% of Sr] | 3...15                                                                      |
| Switch point drift | [% of Sr] | -10...10                                                                    |

## Operating conditions

|                     |      |          |
|---------------------|------|----------|
| Ambient temperature | [°C] | -25...70 |
| Protection          |      | IP 67    |

## Tests / approvals

|     |              |         |
|-----|--------------|---------|
| EMC | EN 60947-5-2 |         |
|     | EN 55011     | class B |

## Mechanical data

|                    |      |                         |
|--------------------|------|-------------------------|
| Housing            |      | threaded type           |
| Mounting           |      | flush mountable         |
| Dimensions         | [mm] | M18 x 1                 |
| Thread designation |      | M18 x 1                 |
| Materials          |      | brass; PES; PTFE coated |

## Displays / operating elements

|         |                  |                                         |
|---------|------------------|-----------------------------------------|
| Display | switching status | 1 x LED, red                            |
|         | operation        | 1 x LED, green                          |
|         | short circuit    | 1 x LED, green/red alternately flashing |

## Accessories

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

## Remarks

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

# IG0318



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### Electrical connection - plug

Connector: 1 x 7/8"; coding: A

