

# IG0297



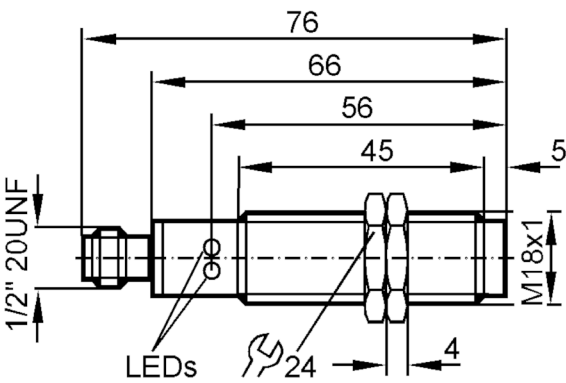
## Inductive sensor

IGA2005UARLA/SC/SL/LS-100AK

Article no longer available - archive entry

Alternative articles: IG0335

When selecting an alternative article and accessories please note that technical data may differ!



| Product characteristics               |      |                       |
|---------------------------------------|------|-----------------------|
| Output function                       |      | normally open         |
| Sensing range                         | [mm] | 5                     |
| Housing                               |      | Threaded type         |
| Dimensions                            | [mm] | M18 x 1               |
| Application                           |      |                       |
| System                                |      | 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                   |



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|                                                 |      |                                |
|-------------------------------------------------|------|--------------------------------|
| Max. leakage current                            | [mA] | 1.7 (140 V AC/DC)              |
| Permanent current rating of switching output AC | [mA] | 300                            |
| 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                       |
| Overload protection                             |      | no                             |

## Monitoring range

|                       |      |          |
|-----------------------|------|----------|
| 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 / aluminum: 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                 |
| Material           |      | brass; PES; PTFE coated |

## Displays / operating elements

|         |                  |                                         |
|---------|------------------|-----------------------------------------|
| Display | Switching status | 1 x LED, red                            |
|         | Power            | 1 x LED, green                          |
|         | short circuit    | 1 x LED, green/red alternately flashing |

## Accessories

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

## Remarks

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

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### Electrical connection - plug

Connector: 1 x 1/2"; coding: C

