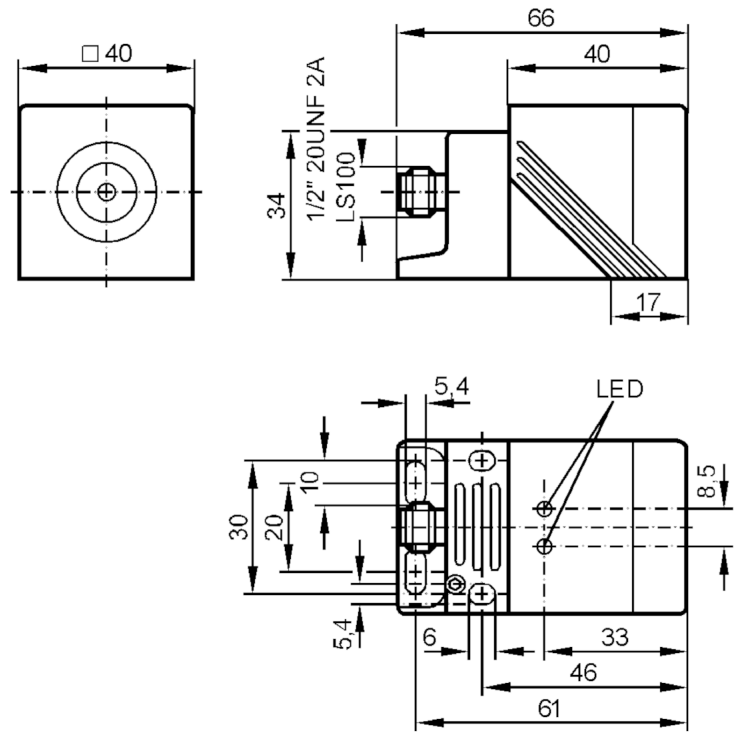




Inductive sensor

IMC2035-ARKA/LS-100AK



Product characteristics

|                    |               |
|--------------------|---------------|
| Output function    | normally open |
| Sensing range [mm] | 35            |
| Housing            | rectangular   |

Application

|                 |                         |
|-----------------|-------------------------|
| Special feature | Increased sensing range |
|-----------------|-------------------------|

Electrical data

|                             |                           |
|-----------------------------|---------------------------|
| Frequency AC [Hz]           | 47...63                   |
| Operating voltage [V]       | 20...140 AC / 10...140 DC |
| Protection class            | I                         |
| Reverse polarity protection | yes                       |

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)      |
| Short-time current rating of switching output [mA] | 2200; (20 ms / 0,5 Hz) |
| Switching frequency AC [Hz]                        | 25                     |
| Switching frequency DC [Hz]                        | 100                    |

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|                                  |                  |                                                                             |                   |
|----------------------------------|------------------|-----------------------------------------------------------------------------|-------------------|
| Short-circuit protection         |                  | yes                                                                         |                   |
| Type of short-circuit protection |                  | pulsed                                                                      |                   |
| Overload protection              |                  | yes                                                                         |                   |
| Detection zone                   |                  |                                                                             |                   |
| Sensing range                    | [mm]             | 35                                                                          |                   |
| Operating distance               | [mm]             | 0...28.3                                                                    |                   |
| Increased sensing range          |                  | yes                                                                         |                   |
| Accuracy / deviations            |                  |                                                                             |                   |
| Correction factor                |                  | steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.4 / copper: 0.3 |                   |
| Hysteresis                       | [X01]            | 3...15                                                                      |                   |
| Operating conditions             |                  |                                                                             |                   |
| Ambient temperature              | [°C]             | -25...70                                                                    |                   |
| Protection                       |                  | IP 67                                                                       |                   |
| Tests / approvals                |                  |                                                                             |                   |
| EMC                              | EN 60947-5-2     |                                                                             |                   |
| MTTF                             | [ANN]            | 353                                                                         |                   |
| UL approval                      | Ta               |                                                                             | 0...40 °C         |
|                                  | Enclosure type   |                                                                             | Type 1            |
|                                  | подача напруги   |                                                                             | Hazardous voltage |
|                                  | File number UL   |                                                                             | E174191           |
| Mechanical data                  |                  |                                                                             |                   |
| Weight                           | [g]              | 254.55                                                                      |                   |
| Housing                          |                  | rectangular                                                                 |                   |
| Mounting                         |                  | non-flush mountable                                                         |                   |
| Materials                        |                  | PPE; clamp: diecast zinc                                                    |                   |
| Displays / operating elements    |                  |                                                                             |                   |
| Display                          | switching status |                                                                             | 1 x LED, red      |
|                                  | operation        |                                                                             | 1 x LED, green    |
| Remarks                          |                  |                                                                             |                   |
| Remarks                          |                  | 5 positions of the active zone possible                                     |                   |
| Pack quantity                    |                  | 1 pcs.                                                                      |                   |

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### Electrical connection - plug

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

