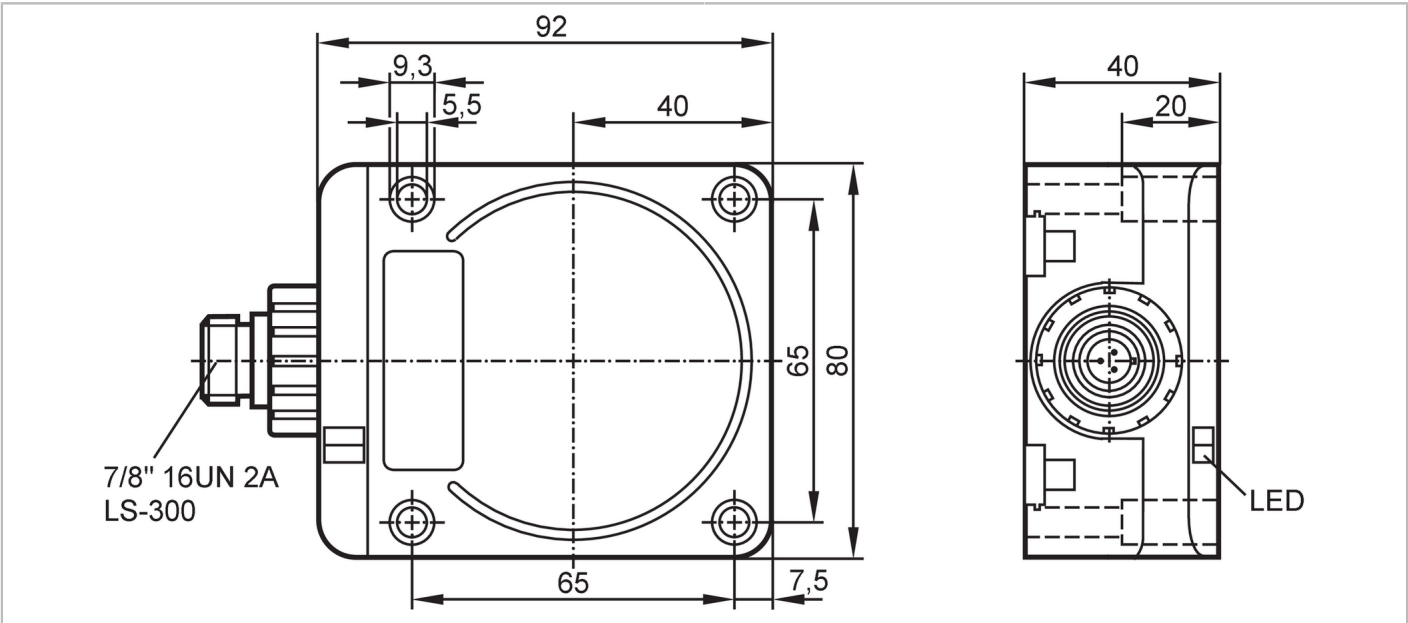




Inductive sensor

IDC2050BARKA/SL/LS-300BL



Product characteristics

|                    |               |
|--------------------|---------------|
| Output function    | normally open |
| Sensing range [mm] | 50            |
| Housing            | rectangular   |
| Dimensions [mm]    | 92 x 80 x 40  |

Application

|             |                         |
|-------------|-------------------------|
| Application | Industrial applications |
|-------------|-------------------------|

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]            | 6                      |
| Max. voltage drop switching output AC [V]            | 6                      |
| Minimum load current [mA]                            | 5.5                    |
| Max. leakage current [mA]                            | 1.7 (140 V AC/DC)      |
| Permanent current rating of switching output AC [mA] | 450                    |
| Permanent current rating of switching output DC [mA] | 450                    |
| Short-time current rating of switching output [mA]   | 2200; (20 ms / 0,5 Hz) |
| Switching frequency AC [Hz]                          | 25                     |
| Switching frequency DC [Hz]                          | 25                     |



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|                                  |  |                                                                                |                                                  |
|----------------------------------|--|--------------------------------------------------------------------------------|--------------------------------------------------|
| Short-circuit protection         |  | yes                                                                            |                                                  |
| Type of short-circuit protection |  | yes (non-latching)                                                             |                                                  |
| Overload protection              |  | yes                                                                            |                                                  |
| Monitoring range                 |  |                                                                                |                                                  |
| Sensing range                    |  | [mm]                                                                           | 50                                               |
| Operating distance               |  | [mm]                                                                           | 0...40.5; (mounted flush with mild steel (ST37)) |
| Accuracy / deviations            |  |                                                                                |                                                  |
| Correction factor                |  | steel: 1 / stainless steel: 0.85 / brass: 0.48 / aluminum: 0.46 / copper: 0.38 |                                                  |
| Hysteresis                       |  | [% of Sr]                                                                      | 3...20                                           |
| Switch-point drift               |  | [% of Sr]                                                                      | -15...15                                         |
| Operating conditions             |  |                                                                                |                                                  |
| Ambient temperature              |  | [°C]                                                                           | -25...70                                         |
| Protection                       |  | IP 67                                                                          |                                                  |
| Tests / approvals                |  |                                                                                |                                                  |
| EMC                              |  | EN 60947-5-2                                                                   |                                                  |
| MTTF                             |  | [years]                                                                        | 352                                              |
| UL approval                      |  | Ta                                                                             | 0...40 °C                                        |
|                                  |  | Enclosure type                                                                 | Type 1                                           |
|                                  |  | File number UL                                                                 | E174191                                          |
| Mechanical data                  |  |                                                                                |                                                  |
| Weight                           |  | [g]                                                                            | 432.5                                            |
| Housing                          |  | rectangular                                                                    |                                                  |
| Mounting                         |  | flush mountable                                                                |                                                  |
| Dimensions                       |  | [mm]                                                                           | 92 x 80 x 40                                     |
| Material                         |  | PPE; diecast zinc; brass nickel-plated                                         |                                                  |
| 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                   |  | sealing plug: 1                                                                |                                                  |
| Remarks                          |  |                                                                                |                                                  |
| Pack quantity                    |  | 1 pcs.                                                                         |                                                  |



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### Electrical connection - plug

Connector: 1 x 7/8"; coding: A; Contacts: 3

