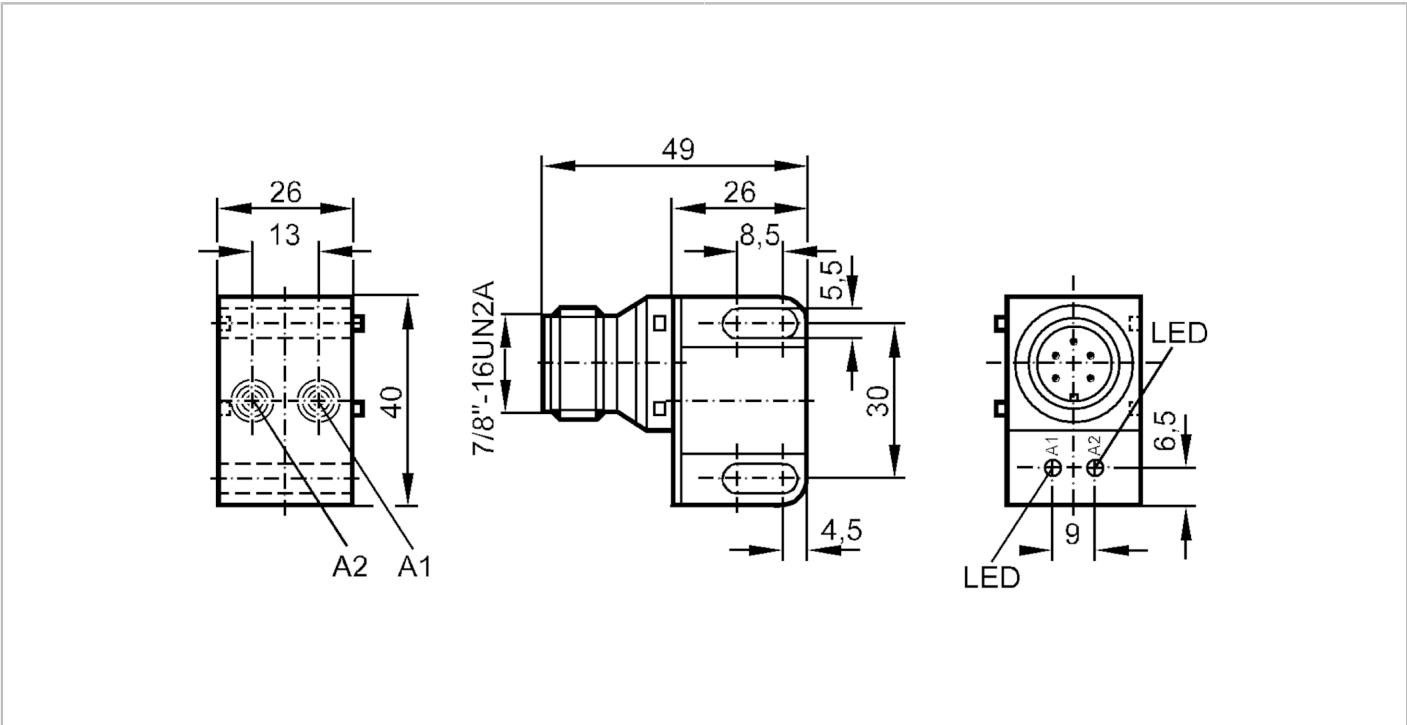




Dual inductive sensor for valve actuators

IND2004DAROA/SL/LS-500/1.7 RT



| Product characteristics                         |      |                            |
|-------------------------------------------------|------|----------------------------|
| Electrical design                               |      | Series connection possible |
| Output function                                 |      | 2 x normally open          |
| Sensing range                                   | [mm] | 4                          |
| Housing                                         |      | rectangular                |
| Electrical data                                 |      |                            |
| Frequency AC                                    | [Hz] | 47...63                    |
| Operating voltage                               | [V]  | 20...140 AC / 10...140 DC  |
| Protection class                                |      | I                          |
| Reverse polarity protection                     |      | no                         |
| Outputs                                         |      |                            |
| Electrical design                               |      | Series connection possible |
| Output function                                 |      | 2 x normally open          |
| Max. voltage drop switching output DC           | [V]  | 5                          |
| Max. voltage drop switching output AC           | [V]  | 5                          |
| Minimum load current                            | [mA] | 5                          |
| Max. leakage current                            | [mA] | 1.7                        |
| Permanent current rating of switching output AC | [mA] | 200                        |
| Permanent current rating of switching output DC | [mA] | 200                        |
| Switching frequency AC                          | [Hz] | 25                         |
| Switching frequency DC                          | [Hz] | 25                         |



## Dual inductive sensor for valve actuators

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|                                      |                                                                             |
|--------------------------------------|-----------------------------------------------------------------------------|
| Short-circuit proof                  | no                                                                          |
| Overload protection                  | no                                                                          |
| <b>Monitoring range</b>              |                                                                             |
| Sensing range [mm]                   | 4                                                                           |
| Real sensing range Sr [mm]           | 4 ± 10 %                                                                    |
| Operating distance [mm]              | 0...3.25                                                                    |
| <b>Accuracy / deviations</b>         |                                                                             |
| Correction factor                    | steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.4 / copper: 0.3  |
| Hysteresis [% of Sr]                 | 1...15                                                                      |
| Switch-point drift [% of Sr]         | -10...10                                                                    |
| <b>Operating conditions</b>          |                                                                             |
| Ambient temperature [°C]             | -25...80                                                                    |
| Protection                           | IP 67                                                                       |
| <b>Tests / approvals</b>             |                                                                             |
| EMC                                  | EN 60947-5-2                                                                |
|                                      | EN 55011 class B                                                            |
| MTTF [years]                         | 514                                                                         |
| UL approval                          | Ta                                                                          |
|                                      | 0...40 °C                                                                   |
|                                      | Enclosure type                                                              |
|                                      | Type 1                                                                      |
|                                      | voltage supply                                                              |
|                                      | Hazardous voltage                                                           |
|                                      | File number UL                                                              |
|                                      | E174191                                                                     |
| <b>Mechanical data</b>               |                                                                             |
| Weight [g]                           | 79                                                                          |
| Housing                              | rectangular                                                                 |
| Mounting                             | non-flush mountable                                                         |
| Material                             | PBT                                                                         |
| <b>Displays / operating elements</b> |                                                                             |
| Display                              | Switching status 2 x LED, red                                               |
| <b>Electrical connection</b>         |                                                                             |
| Required protection                  | miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting                    |
| <b>Remarks</b>                       |                                                                             |
| Remarks                              | Recommendation: check the unit for reliable function after a short circuit. |
| Pack quantity                        | 1 pcs.                                                                      |

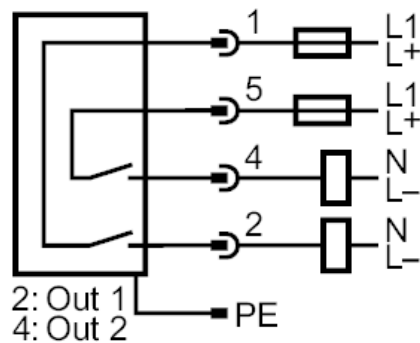
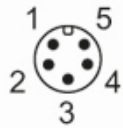


## Dual inductive sensor for valve actuators

IND2004DAROA/SL/LS-500/1.7 RT

### Electrical connection - plug

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



Note miniature fuse to IEC60127-2 sheet 1  $\leq 2$  A fast acting