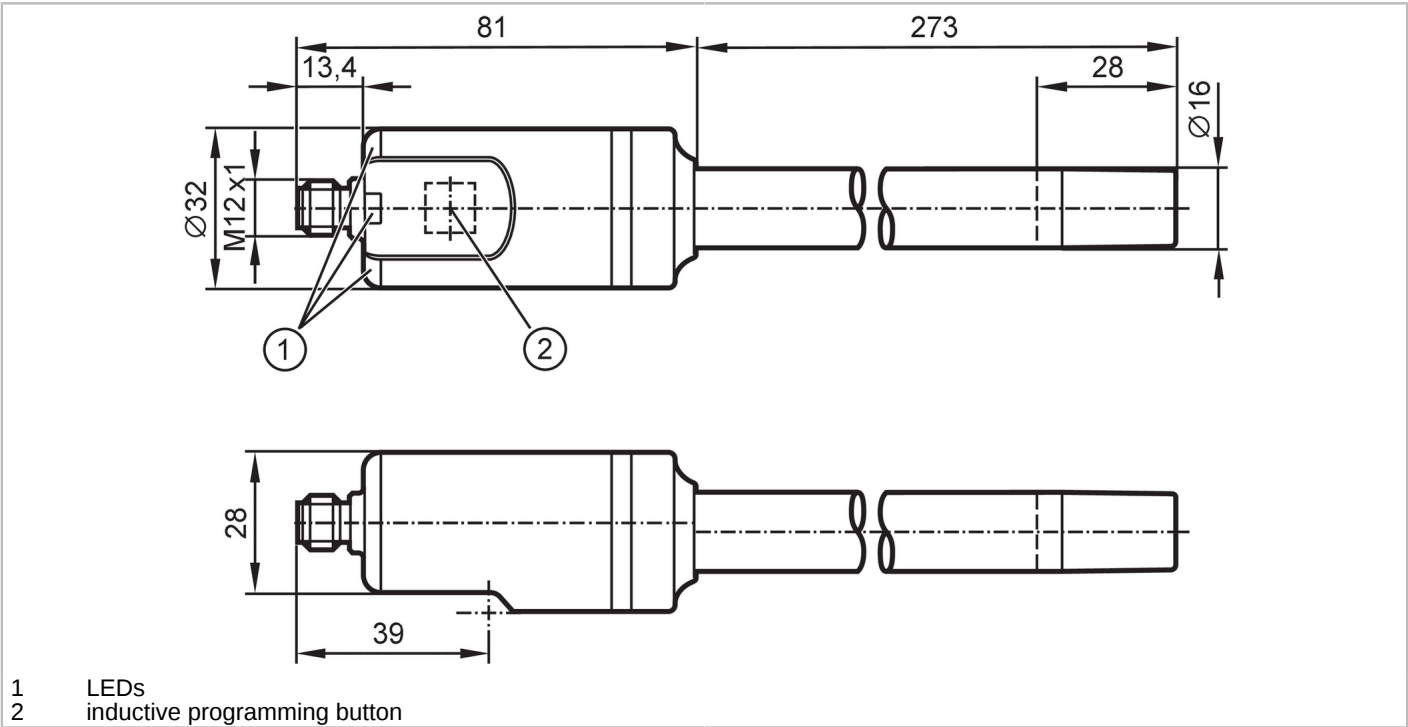


# LI5132



## Sensor for point level detection

LI0273--K-00KQPKG/US



### Product characteristics

|                              |                              |
|------------------------------|------------------------------|
| Number of inputs and outputs | Number of digital outputs: 2 |
| Factory setting              | water-based media            |
| Probe length L [mm]          | 273                          |

### Application

|                                   |                                                     |
|-----------------------------------|-----------------------------------------------------|
| Special feature                   | gold-plated contacts                                |
| Media                             | Liquids                                             |
| Dielectric constant of the medium | > 1,8                                               |
| Recommended media                 | water; water-based media; oils; oil-based media     |
| Cannot be used for                | See operating instructions, chapter "Intended use". |
| Medium temperature [°C]           | -25...85                                            |
| Pressure rating                   | 0.5 bar 0.05 MPa                                    |
| Vacuum resistance [mbar]          | -500                                                |

### Electrical data

|                             |                                    |
|-----------------------------|------------------------------------|
| Operating voltage [V]       | 9.6...35 DC; (IO-Link: 18...30 DC) |
| Current consumption [mA]    | < 15                               |
| Protection class            | III                                |
| Reverse polarity protection | yes                                |
| Power-on delay time [s]     | < 1                                |
| Measuring principle         | capacitive                         |

### Inputs / outputs

|                              |                              |
|------------------------------|------------------------------|
| Number of inputs and outputs | Number of digital outputs: 2 |
|------------------------------|------------------------------|



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| Outputs                                              |                                        |                                       |
|------------------------------------------------------|----------------------------------------|---------------------------------------|
| Total number of outputs                              | 2                                      |                                       |
| Output signal                                        | switching signal; IO-Link              |                                       |
| Electrical design                                    | PNP/NPN                                |                                       |
| Number of digital outputs                            | 2                                      |                                       |
| Output function                                      | normally open / closed; (configurable) |                                       |
| Max. voltage drop switching output DC [V]            | 2.5                                    |                                       |
| Permanent current rating of switching output DC [mA] | 100                                    |                                       |
| Short-circuit protection                             | yes                                    |                                       |
| Type of short-circuit protection                     | yes (non-latching)                     |                                       |
| Overload protection                                  | yes                                    |                                       |
| Measuring/setting range                              |                                        |                                       |
| Factory setting                                      | water-based media                      |                                       |
| Probe length L [mm]                                  | 273                                    |                                       |
| Active range A [mm]                                  | 28                                     |                                       |
| Temperature measurement                              |                                        |                                       |
| Measuring range [°C]                                 | -25...85                               |                                       |
| Accuracy / deviations                                |                                        |                                       |
| Temperature measurement                              |                                        |                                       |
| Accuracy [K]                                         | 1,5                                    |                                       |
| Resolution [K]                                       | 0.1                                    |                                       |
| Dynamic response T09 [s]                             | 240                                    |                                       |
| Reaction times                                       |                                        |                                       |
| Response time [s]                                    | < 0.3                                  |                                       |
| Interfaces                                           |                                        |                                       |
| Communication interface                              | IO-Link                                |                                       |
| Transmission type                                    | COM2 (38,4 kBaud)                      |                                       |
| IO-Link revision                                     | 1.1                                    |                                       |
| SDCI standard                                        | IEC 61131-9                            |                                       |
| Profiles                                             | Common - I&D                           | Identification and Diagnosis          |
|                                                      | Function                               | Measurement data, standard resolution |
| SIO mode                                             | yes                                    |                                       |
| Required master port class                           | A                                      |                                       |
| Process data analog                                  | 5                                      |                                       |
| Process data binary                                  | 2                                      |                                       |
| Min. process cycle time [ms]                         | 4.5                                    |                                       |
| Supported DeviceIDs                                  | Type of operation                      | DeviceID                              |
|                                                      | default                                | 1053                                  |
| Operating conditions                                 |                                        |                                       |
| Ambient temperature [°C]                             | -25...85                               |                                       |
| Storage temperature [°C]                             | -25...85                               |                                       |

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|            |                                                            |
|------------|------------------------------------------------------------|
| Protection | IP 68; IP 69K; (7 days / 3 m water depth / 0.3 bar: IP 68) |
|------------|------------------------------------------------------------|

Tests / approvals

|                      |                    |                                |
|----------------------|--------------------|--------------------------------|
| EMC                  | DIN EN 61000-6-2   |                                |
|                      | DIN EN 61000-6-3   | in a closed metal tank         |
|                      | DIN EN 61000-6-4   | in plastic or open metal tanks |
| Shock resistance     | DIN EN 60068-2-27  | 12 g (11 ms)                   |
| Vibration resistance | DIN EN 60068-2-6   | 5 g (10...2000 Hz)             |
| MTTF [years]         |                    | 433                            |
| UL approval          | UL approval number | H013                           |
|                      | File number UL     | E174191                        |

Mechanical data

|                          |                     |
|--------------------------|---------------------|
| Weight [g]               | 252.7               |
| Material                 | PP fiber-reinforced |
| Materials (wetted parts) | PP                  |
| Probe diameter [mm]      | 16                  |

Displays / operating elements

|                    |                              |             |
|--------------------|------------------------------|-------------|
| Display            | Power                        | LED, green  |
|                    | Switching status             | LED, yellow |
| Operating elements | inductive programming button |             |

Remarks

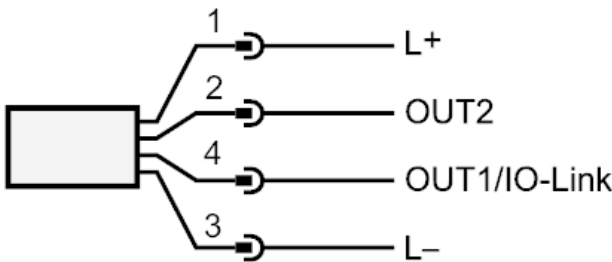
|               |        |
|---------------|--------|
| Pack quantity | 1 pcs. |
|---------------|--------|

Electrical connection

Connector: 1 x M12; coding: A; Contacts: gold-plated



Connection



OUT1: Switching output  
OUT2: Switching output