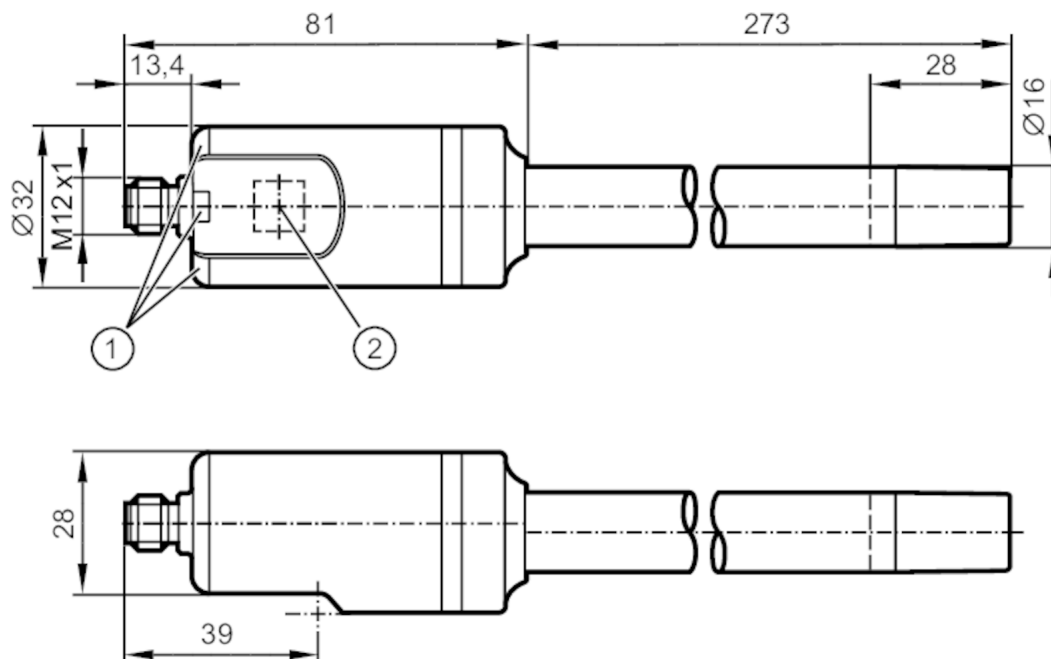


# LI2132



## Sensor for point level detection

LI0273--K-00KQPKG/US/WHG



- 1 LEDs  
2 inductive programming button



### Product characteristics

|                              |                              |
|------------------------------|------------------------------|
| Number of inputs and outputs | Number of digital outputs: 2 |
| Factory setting              | oils; oil-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; hydrous media; oils; oil-based media                               |
| Cannot be used for                | See operating instructions, chapter "Intended use".                       |
| Medium temperature [°C]           | -25...85; (applications subject to the German Federal Water Act 0...85°C) |
| Pressure rating [bar]             | 0.5                                                                       |
| 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                                      | OUT-OP                                                                                     | normally closed                                       |
|                                                      | OUT2                                                                                       | normally open / normally closed;<br>(parameterisable) |
| 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                     | pulsed                                                                                     |                                                       |
| Overload protection                                  | yes                                                                                        |                                                       |
| Measuring/setting range                              |                                                                                            |                                                       |
| Factory setting                                      | oils; oil-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                                                                                        |                                                       |
| Response times                                       |                                                                                            |                                                       |
| Response time [s]                                    | < 0.3                                                                                      |                                                       |
| Interfaces                                           |                                                                                            |                                                       |
| Communication interface                              | IO-Link                                                                                    |                                                       |
| Unterstützte Masterportklasse                        | A                                                                                          |                                                       |
| Transmission type                                    | COM2 (38,4 kBaud)                                                                          |                                                       |
| IO-Link revision                                     | 1.1                                                                                        |                                                       |
| SDCI standard                                        | IEC 61131-9                                                                                |                                                       |
| Profiles                                             | Smart Sensor ED2: Identification and Diagnosis (0x4000), Measurement Data Channel (0x800A) |                                                       |
| SIO mode                                             | yes                                                                                        |                                                       |
| Process data analogue                                | 5                                                                                          |                                                       |
| Process data binary                                  | 2                                                                                          |                                                       |
| Min. process cycle time [ms]                         | 4.5                                                                                        |                                                       |
| Supported DeviceIDs                                  | Type of operation                                                                          | DeviceID                                              |
|                                                      | default                                                                                    | 634                                                   |

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## Sensor for point level detection

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| Operating conditions                                 |                                                                                  |                                                            |
|------------------------------------------------------|----------------------------------------------------------------------------------|------------------------------------------------------------|
| Ambient temperature                                  | [°C]                                                                             | -25...85                                                   |
| Storage temperature                                  | [°C]                                                                             | -25...85                                                   |
| Protection                                           |                                                                                  | IP 68; IP 69K; (7 days / 3 m water depth / 0.3 bar: IP 68) |
| Tests / approvals                                    |                                                                                  |                                                            |
| Approval                                             | WHG; General building authority approval; overflow prevention; leakage detection |                                                            |
| 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                                                        |
| Mechanical data                                      |                                                                                  |                                                            |
| Weight                                               | [g]                                                                              | 363.6                                                      |
| Materials                                            |                                                                                  | PP reinforced fibre                                        |
| Materials (wetted parts)                             |                                                                                  | PP                                                         |
| Probe diameter                                       | [mm]                                                                             | 16                                                         |
| Displays / operating elements                        |                                                                                  |                                                            |
| Display                                              | operation                                                                        | 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 |                                                                                  |                                                            |
|                                                      |                                                                                  |                                                            |

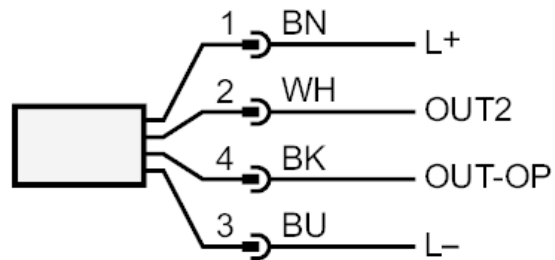
# LI2132



## Sensor for point level detection

LI0273--K-00KQPKG/US/WHG

### Connection



OUT-OP :      IO-Link  
                 switching output overflow prevention to the German Federal Water Act (WHG)  
                 switching output leakage detection to WHG (German Federal Water Act)

OUT2 :        switching output level  
                 switching output temperature