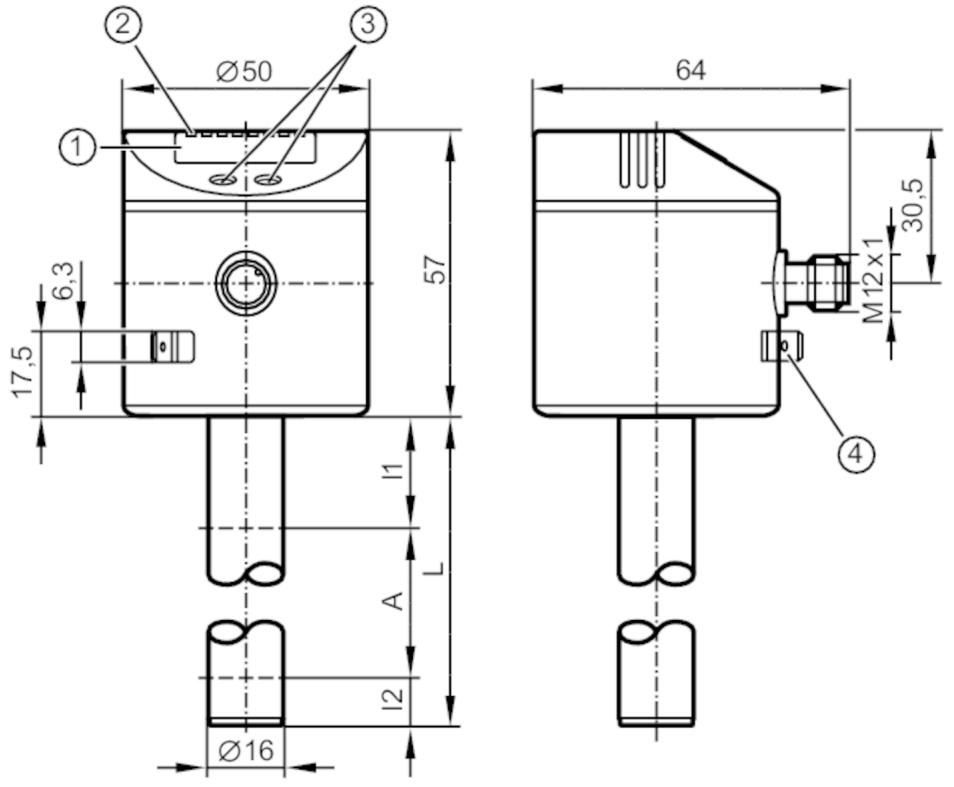
# LK7022

## Electronic level sensor

LK0264A-A-00KQPKG/US




1 alphanumeric display 4-digit
2 status LEDs
3 Programming buttons
4 housing connection flat-pin connector 6.3 mm DIN 46244

| | | | |
|---|---|---|---|
| **Product characteristics** | | | |
| Number of inputs and outputs | | Number of digital outputs: 2 | |
| Factory setting | | automatic medium detection | |
| Probe length L | [mm] | 264 | |
| **Application** | | | |
| System | | gold-plated contacts | |
| Media | | hydrous coolants; oils; oil-based media; water; media similar to water | |
| Dielectric constant of the medium | | > 2 | |
| Cannot be used for | | extremely conductive media; adhering media; granulates; bulk material; acids; alkali; hygienic areas and electroplating applications | |
| Maximum speed of the change of level | [mm/s] | 100 | |
| Tank pressure | | 0.5; (when mounting with mounting accessories: E43001 - E43007, E43019) bar | 0.05; (when mounting with mounting accessories: E43001 - E43007, E43019) MPa |
| Coolants | | | |
| Medium temperature | [°C] | 0...35; (with climate tube E43100: 35...65 °C) | |
| Oil | | | |
| Medium temperature | [°C] | 0...70 | |

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| | | |
|---|---|---|
| Medium temperature short time | [°C] | 0...90;  (< 1 h) |
| Water | | |
| Medium temperature | [°C] | 0...35;  (with climate tube E43100: 35...65 °C) |
| **Electrical data** | | |
| Operating voltage | [V] | 12...30 DC |
| Current consumption | [mA] | < 50 |
| Protection class | | III |
| Reverse polarity protection | | yes |
| Power-on delay time | [s] | < 3 |
| Measuring principle | | capacitive |
| **Inputs / outputs** | | |
| Number of inputs and outputs | | Number of digital outputs: 2 |
| **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] | 200 |
| Short-circuit protection | | yes |
| Type of short-circuit protection | | thermal, pulsed |
| Overload protection | | yes |
| **Measuring/setting range** | | |
| Factory setting | | automatic medium detection |
| Probe length L | [mm] | 264 |
| Active range A | [mm] | 195 |
| Inactive range I1 / I2 | [mm] | 53 / 16 |
| Setting range | | |
| Set point SP | [mm] | 25...200 |
| Reset point rP | [mm] | 20...195 |
| In steps of | [mm] | 5 |
| Reference point OP | [mm] | 69 - 82 - 94 - 106 - 118 - 130 - 143 - 155 - 167 - 179 - 191 - 204 - OFF |
| Hysteresis, OP | [mm] | 2 |
| **Accuracy / deviations** | | |
| Measuring error [% of the final value] | | ± 5 |
| Repeatability | | ± 2 |
| Resolution | [mm] | 5 |

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| | | | |
|---|---|---|---|
| **Software / programming** | | | |
| Parameter setting options | | hysteresis / window; normally open / closed; switching logic; SP/rP position; adjustment OP; medium selection; offset setting; switch-on/switch-off delay | |
| **Interfaces** | | | |
| Communication interface | | IO-Link | |
| Transmission type | | COM2 (38,4 kBaud) | |
| IO-Link revision | | 1.1 | |
| SDCI standard | | IEC 61131-9 | |
| Profiles | | Smart Sensor - SSP 0 | Generic Profiled Sensor |
| | | Function | Device identification |
| | | Function | Process data variable |
| | | Function | Device diagnosis |
| SIO mode | | yes | |
| Required master port class | | A | |
| Process data analog | | 2 | |
| Process data binary | | 2 | |
| Min. process cycle time | [ms] | 3.2 | |
| Supported DeviceIDs | | **Type of operation** | **DeviceID** |
| | | default | 655 |
| **Operating conditions** | | | |
| Ambient temperature | [°C] | 0...60 | |
| Storage temperature | [°C] | -25...80 | |
| Protection | | IP 67 | |
| **Tests / approvals** | | | |
| EMC | | DIN EN 61000-6-2 | |
| | | DIN EN 61000-6-4 | |
| Shock resistance | | DIN EN 60068-2-27 | 15 g (11 ms) |
| Vibration resistance | | DIN EN 60068-2-6 | 5 g (10...2000 Hz) |
| MTTF | [years] | 265 | |
| **Mechanical data** | | | |
| Weight | [g] | 289.6 | |
| Dimensions | [mm] | Ø 16 | |
| Material | | stainless steel (1.4301 / 304); stainless steel (1.4404 / 316L); FKM; NBR; PBT; PC; PA; PP; TPV | |
| Materials (wetted parts) | | PP | |
| **Displays / operating elements** | | | |
| Display | | Display unit | 2 x LED, green (cm, inch) |
| | | Switching status | 2 x LED, yellow |
| | | Measured values | alphanumeric display, 4-digit |
| | | Parameter setting | alphanumeric display, 4-digit |
| **Remarks** | | | |
| Pack quantity | | 1 pcs. | |

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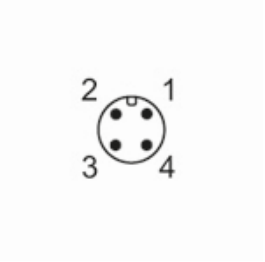
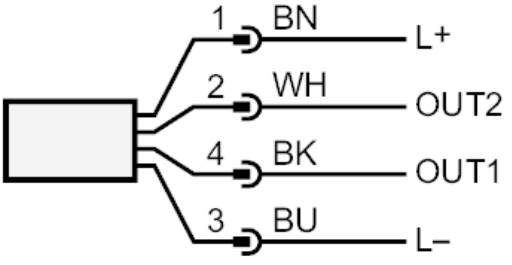
## Electrical connection

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




### Connection




| | |
|---|---|
| OUT1: | switching output or IO-Link |
| OUT2: | Switching output |
| | Colors to DIN EN 60947-5-2 |
| | Core colors : |
| BK = | black |
| BN = | brown |
| BU = | blue |
| WH = | white |