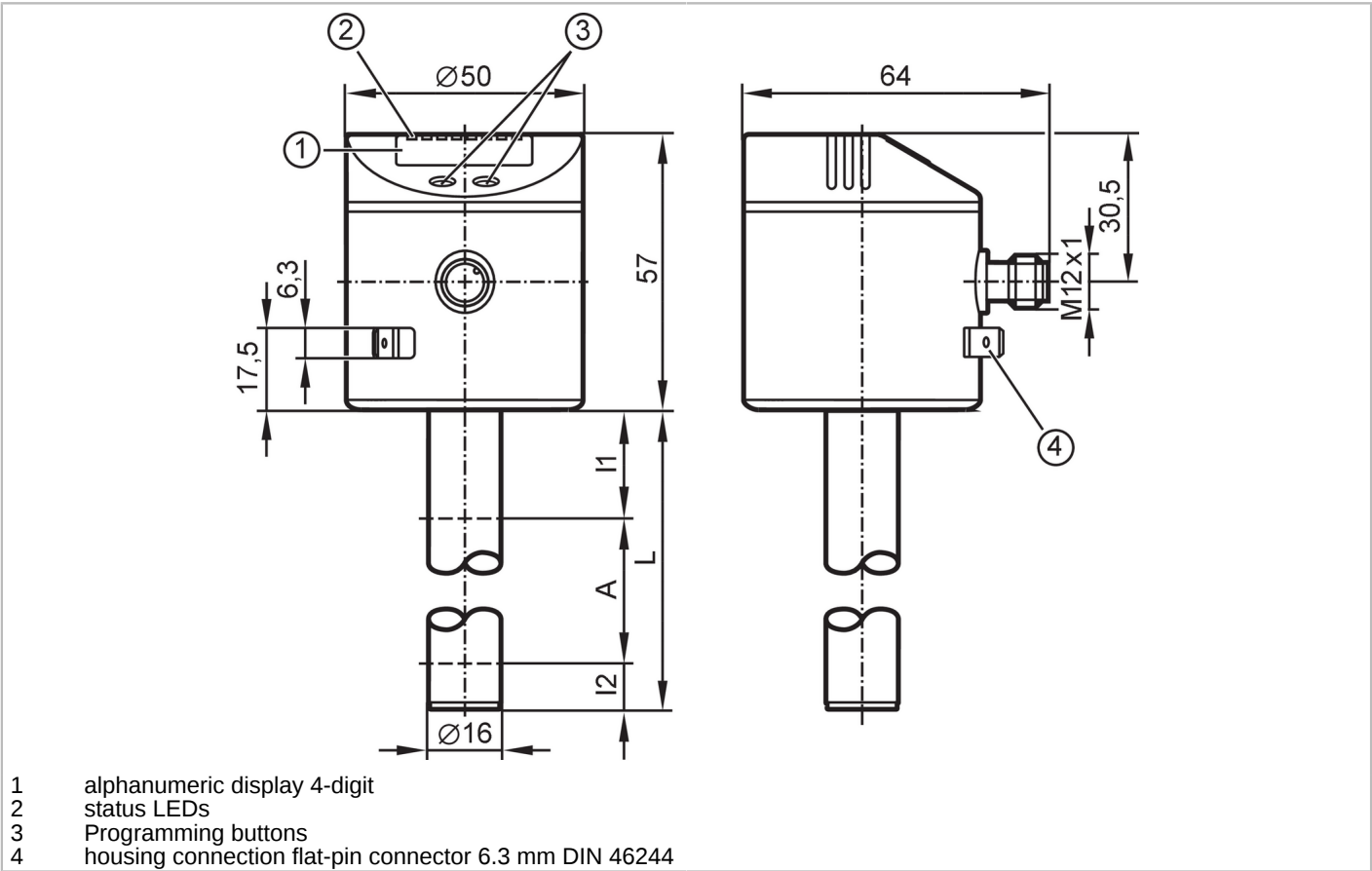


LK1022



Electronic level sensor

LK0264B-B-00KQPKG/US



| Product characteristics                     |                                                                                                                                      |                                                                              |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| Number of inputs and outputs                | Number of digital outputs: 2                                                                                                         |                                                                              |
| Factory setting                             | hydrous coolants; water; media similar to water                                                                                      |                                                                              |
| Probe length L [mm]                         | 264                                                                                                                                  |                                                                              |
| Application                                 |                                                                                                                                      |                                                                              |
| Special feature                             | 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                                                                                                                               |                                                                              |
| Medium temperature short time [°C]          | 0...90; (< 1 h)                                                                                                                      |                                                                              |

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## Electronic level sensor

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|                                                 |                        |                                                                                                                                                           |
|-------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Water                                           |                        |                                                                                                                                                           |
| Medium temperature                              | [°C]                   | 0...35; (with climate tube E43100: 35...65 °C)                                                                                                            |
| Electrical data                                 |                        |                                                                                                                                                           |
| Operating voltage                               | [V]                    | 18...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                                 |                        | hydrous coolants; water; media similar to water                                                                                                           |
| 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                                 |                        | ± 5                                                                                                                                                       |
|                                                 | [% of the final value] |                                                                                                                                                           |
| Repeatability                                   |                        | ± 2                                                                                                                                                       |
| Resolution                                      | [mm]                   | 5                                                                                                                                                         |
| 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 |

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## Electronic level sensor

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| 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                                                                                         | 652                           |
| 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]                                                                                             | 289.8                         |
| 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.                                                                                          |                               |
| Electrical connection                                                               |                                                                                                 |                               |
| Connector: 1 x M12; coding: A; Contacts: 4, gold-plated                             |                                                                                                 |                               |
|  |                                                                                                 |                               |

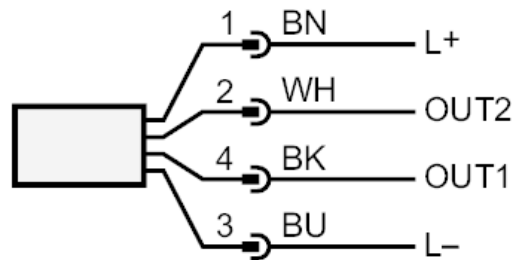
# LK1022



## Electronic level sensor

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### Connection



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