

# LI5144



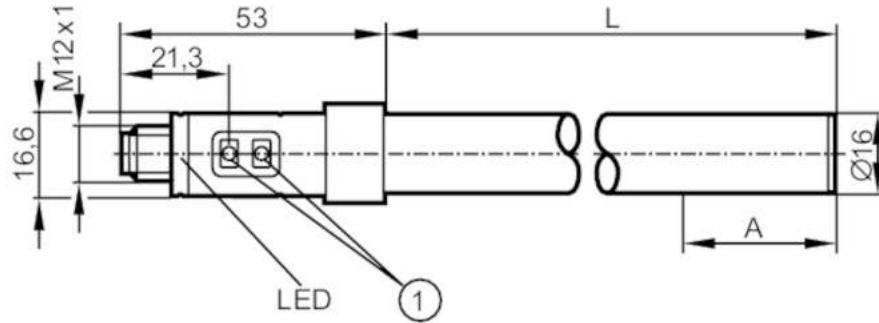
## Sensor for point level detection

LI0737--K-00KNPKG/US

phase-out article

Alternative articles: LI5134

When selecting an alternative article and accessories please note that technical data may differ!



1 programming buttons



### Product characteristics

|                              |                              |
|------------------------------|------------------------------|
| Number of inputs and outputs | Number of digital outputs: 1 |
| Probe length L [mm]          | 737                          |

### Application

|                                    |   |
|------------------------------------|---|
| Special feature                    | Gold-plated contacts  |
| Media                              | hydrous coolants; oils; water; media similar to water   |
| Dielectric constant of the medium  | > 1,8   |
| Recommended media                  | hydrous coolants; oils; water; media similar to water   |
| Cannot be used for                 | granulates; bulk material; acids; alkali  |
| Tank pressure [bar]                | -0.5...0.5; (when mounting with mounting accessories: E43001 - E43007, E43019)  |
| <b>Oil</b>                         |   |
| Medium temperature [°C]            | 0...65  |
| Medium temperature short time [°C] | 0...80  |
| <b>Water</b>                       |   |
| Medium temperature [°C]            | 0...35; (LI5144 + E43102: 0...55; For water and hydrous media with temperatures > 35 °C install the unit into a climatic tube.) |

### Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 10...36 DC |
| Current consumption [mA]    | 22; (24 V) |
| Protection class            | III        |
| Reverse polarity protection | yes        |
| Measuring principle         | capacitive |

### Inputs / outputs

|                              |                              |
|------------------------------|------------------------------|
| Number of inputs and outputs | Number of digital outputs: 1 |
|------------------------------|------------------------------|

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| Outputs  |                   |  |
|--|-------------------|--|
| Total number of outputs                              |                   | 1  |
| Output signal  |                   | switching signal                                   |
| Electrical design                                    |                   | PNP  |
| Number of digital outputs                            |                   | 1  |
| Output function                                      |                   | normally open / normally closed; (parameterisable) |
| 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                     |                   | pulsed   |
| Overload protection                                  |                   | yes  |
| Measuring/setting range                              |                   |  |
| Probe length L [mm]                                  |                   | 737  |
| Active range A [mm]                                  |                   | 31   |
| Operating conditions                                 |                   |  |
| Ambient temperature [°C]                             |                   | -25...80   |
| Storage temperature [°C]                             |                   | -25...80   |
| Protection   |                   | IP 65; IP 67                                       |
| Tests / approvals                                    |                   |  |
| EMC  | EN 61000-6-2      | : 2005 + Corr. 2005                                |
|  | EN 61000-6-4      | : 2007   |
| Shock resistance                                     | DIN EN 60068-2-29 | 12 g (11 ms)                                       |
| Vibration resistance                                 | DIN EN 60068-2-6  | 5 g (10...2000 Hz)                                 |
| MTTF [years]   |                   | 608  |
| Mechanical data                                      |                   |  |
| Weight [g]   |                   | 308.5  |
| Dimensions [mm]                                      |                   | Ø 16   |
| Materials  |                   | PP-GF30; TPE-U                                     |
| Materials (wetted parts)                             |                   | PP   |
| Displays / operating elements                        |                   |  |
| Display  | operation         | LED, green   |
|  | switching status  | LED, yellow  |
| Remarks  |                   |  |
| Pack quantity  |                   | 1 pcs.   |

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### Electrical connection

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



### Connection

