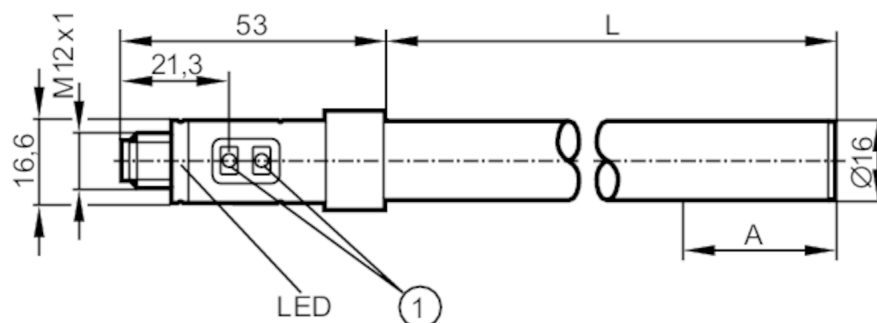


# LI5143



## Sensor for point level detection

LI0481--K-00KNPKG/US



1 programming buttons



| Application                                          |  |                                                                                                                                 |
|------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------|
| 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)                                                  |
| oil                                                  |  |                                                                                                                                 |
| Medium temperature [°C]                              |  | 0...65                                                                                                                          |
| Medium temperature short time [°C]                   |  | 0...80                                                                                                                          |
| water                                                |  |                                                                                                                                 |
| Medium temperature [°C]                              |  | 0...35; (LI5143 + E43101: 0...60; 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                                                                                                                             |
| 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                                                                                                                             |

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| Measuring/setting range                                                             |                   |                     |
|-------------------------------------------------------------------------------------|-------------------|---------------------|
| Probe length L                                                                      | [mm]              | 481                 |
| Active range A                                                                      | [mm]              | 31                  |
| Operating conditions                                                                |                   |                     |
| Ambient 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]               | 227.6               |
| 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.              |
| Electrical connection                                                               |                   |                     |
| Connector: 1 x M12; Contacts: gold-plated                                           |                   |                     |
|  |                   |                     |

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### Connection

