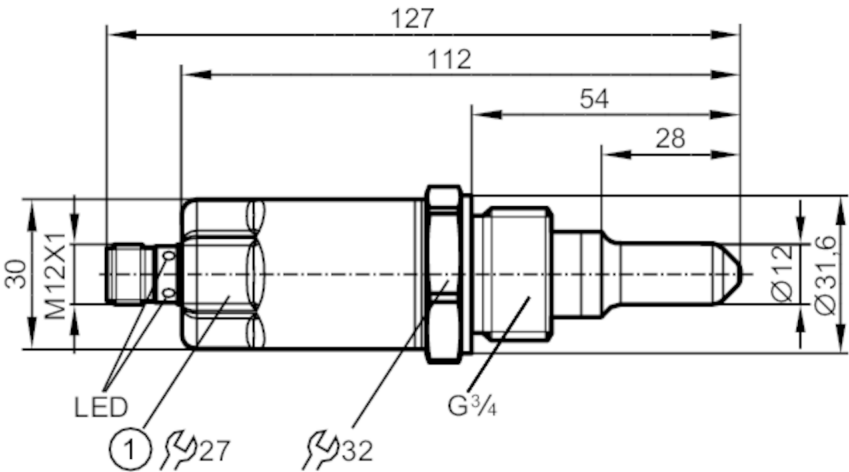


LMT202



Sensor for point level detection

LMBCE-A34E-QSKG-2/US



1 Tightening torque 35 Nm

ACS CE cUL US LISTED EC 1935/2004 FCM FDA IO-Link KTW/W270 UK CA

| Product characteristics       |                                                                  |                  |
|-------------------------------|------------------------------------------------------------------|------------------|
| Number of inputs and outputs  | Number of digital outputs: 2                                     |                  |
| Factory setting               | water-based media                                                |                  |
| Process connection            | G 3/4 external thread                                            |                  |
| Application                   |                                                                  |                  |
| System                        | gold-plated contacts                                             |                  |
| Installation                  | suited for installation in existing tuning fork adapters         |                  |
| Media                         | Liquids; viscous media; powder                                   |                  |
| Recommended media             | water; water-based media; oils; oil-based media; powder          |                  |
| Cannot be used for            | See the operating instructions, chapter "Function and features". |                  |
| Probe length                  | [mm]                                                             | 28               |
| Tank pressure                 | -1...40 bar                                                      | -0.1...4 MPa     |
| Oil                           |                                                                  |                  |
| Medium temperature            | [°C]                                                             | -20...100        |
| Medium temperature short time | [°C]                                                             | -20...150; (1 h) |
| Water                         |                                                                  |                  |
| Medium temperature            | [°C]                                                             | -20...100        |
| Medium temperature short time | [°C]                                                             | -20...150; (1 h) |
| Electrical data               |                                                                  |                  |
| Operating voltage             | [V]                                                              | 18...30 DC       |
| Current consumption           | [mA]                                                             | < 50             |
| Protection class              | III                                                              |                  |
| Reverse polarity protection   | yes                                                              |                  |
| Measuring principle           | capacitive                                                       |                  |



## Sensor for point level detection

LMBCE-A34E-QSKG-2/US

| 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] | 100                                    |                         |
| Short-circuit protection                             | yes                                    |                         |
| Type of short-circuit protection                     | yes (non-latching)                     |                         |
| Overload protection                                  | yes                                    |                         |
| Measuring/setting range                              |                                        |                         |
| Factory setting                                      | water-based media                      |                         |
| Reaction times                                       |                                        |                         |
| Response time [s]                                    | < 0.5                                  |                         |
| 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   |
| SIO mode                                             | yes                                    |                         |
| Required master port class                           | A                                      |                         |
| Process data analog                                  | 1                                      |                         |
| Process data binary                                  | 2                                      |                         |
| Min. process cycle time [ms]                         | 2.3                                    |                         |
| Supported DeviceIDs                                  | Type of operation                      | DeviceID                |
|                                                      | default                                | 370                     |
| Operating conditions                                 |                                        |                         |
| Ambient temperature [°C]                             | -20...85                               |                         |
| Note on ambient temperature                          | Medium temperature: < 100 °C           |                         |
|                                                      | -20...60 °C                            |                         |
|                                                      | Medium temperature: < 150 °C           |                         |
| Storage temperature [°C]                             | -40...85                               |                         |
| Protection                                           | IP 68; IP 69K                          |                         |

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| Tests / approvals    |                    |                     |
|----------------------|--------------------|---------------------|
| EMC                  | DIN EN 61000-6-2   |                     |
|                      | DIN EN 61000-6-4   | : open tanks        |
|                      | DIN EN 61000-6-3   | : closed tanks      |
| Shock resistance     | DIN EN 60068-2-27  | 50 g (11 ms)        |
| Vibration resistance | DIN EN 60068-2-6   | 20 g (10...2000 Hz) |
| MTTF [years]         |                    | 223                 |
| UL approval          | UL approval number | H001                |

| Mechanical data          |  |                                                       |
|--------------------------|--|-------------------------------------------------------|
| Weight [g]               |  | 145.7                                                 |
| Dimensions [mm]          |  | Ø 30 / L = 112                                        |
| Material                 |  | stainless steel (1.4404 / 316L); PEEK; PEI; FKM       |
| Materials (wetted parts) |  | PEEK surface characteristics: Ra < 0,8 µm / Rz = 4 µm |
| Process connection       |  | G 3/4 external thread                                 |

| Displays / operating elements |                  |             |
|-------------------------------|------------------|-------------|
| Display                       | Switching status | LED, yellow |
|                               | operating status | LED, green  |

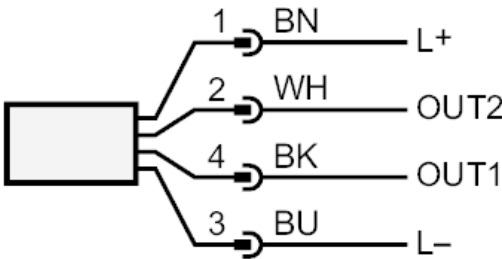
| Remarks       |        |
|---------------|--------|
| Pack quantity | 1 pcs. |

Electrical connection

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



Connection



OUT1: Switching output IO-Link Teach  
OUT2: Switching output  
Colors to DIN EN 60947-5-2