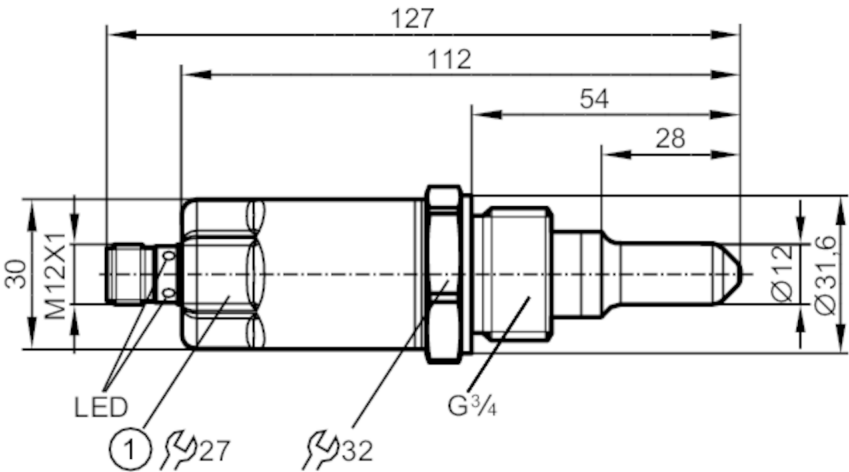


LMT292



Sensor for point level detection

LMBCE-A34E-QPKG-2/US



1 Tightening torque 35 Nm



| 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                                                                                    |                                                                                             |
| Recommended media                  | water; water-based media; oils; oil-based media                                            |                                                                                             |
| Cannot be used for                 | See the operating instructions, chapter "Function and features".                           |                                                                                             |
| Probe length [mm]                  | 28                                                                                         |                                                                                             |
| Tank pressure                      | -1...40; (Applications according to the German Federal Water Act (WHG): -0,5...10 bar) bar | -0.1...4; (Applications according to the German Federal Water Act (WHG): -0,5...10 bar) MPa |
| Oil                                |                                                                                            |                                                                                             |
| Medium temperature [°C]            | -25...100; (Applications according to the German Federal Water Act (WHG) 0...100 °C)       |                                                                                             |
| Medium temperature short time [°C] | -25...150; (1 h; Applications according to the German Federal Water Act (WHG): 0...100 °C) |                                                                                             |
| Water                              |                                                                                            |                                                                                             |
| Medium temperature [°C]            | -25...85; (Applications according to the German Federal Water Act (WHG): 0...85 °C)        |                                                                                             |
| Medium temperature short time [°C] | -25...150; (1 h; Applications according to the German Federal Water Act (WHG): 0...100 °C) |                                                                                             |
| Electrical data                    |                                                                                            |                                                                                             |
| Operating voltage [V]              | 18...30 DC                                                                                 |                                                                                             |
| Current consumption [mA]           | < 50                                                                                       |                                                                                             |
| Protection class                   | III                                                                                        |                                                                                             |

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## Sensor for point level detection

LMBCE-A34E-QPKG-2/US

|                                                      |                                                               |              |
|------------------------------------------------------|---------------------------------------------------------------|--------------|
| Reverse polarity protection                          | yes                                                           |              |
| 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                                                           |              |
| Number of digital outputs                            | 2                                                             |              |
| 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: Process Data Variable; Device Identification    |              |
| 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                                                       | 449          |
| Operating conditions                                 |                                                               |              |
| Ambient temperature [°C]                             | -20...85                                                      |              |
| Note on ambient temperature                          | Medium temperature 100...150 °C                               |              |
|                                                      | -40...60 °C                                                   |              |
| Storage temperature [°C]                             | -40...85                                                      |              |
| Protection                                           | IP 68; IP 69K                                                 |              |
| Tests / approvals                                    |                                                               |              |
| Approval                                             | WHG; General building authority approval; overflow prevention |              |
| EMC                                                  | DIN EN 61000-6-2                                              |              |
|                                                      | DIN EN 61000-6-4                                              | open tanks   |
|                                                      | DIN EN 61000-6-3                                              | closed tanks |

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Sensor for point level detection

LMBCE-A34E-QPKG-2/US

|                      |                    |                     |
|----------------------|--------------------|---------------------|
| 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]         | 222.77             |                     |
| UL approval          | UL approval number | H001                |

Mechanical data

|                          |                                                 |  |
|--------------------------|-------------------------------------------------|--|
| Weight [g]               | 295.5                                           |  |
| Dimensions [mm]          | Ø 30 / L = 112                                  |  |
| Material                 | stainless steel (1.4404 / 316L); PEEK; PEI; FKM |  |
| Materials (wetted parts) | PEEK; surface characteristics: Ra < 0,8 / Rz 4  |  |
| Process connection       | G 3/4 external thread                           |  |

Displays / operating elements

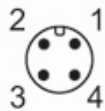
|         |                  |             |
|---------|------------------|-------------|
| Display | Switching status | LED, yellow |
|         | operating status | LED, green  |

Remarks

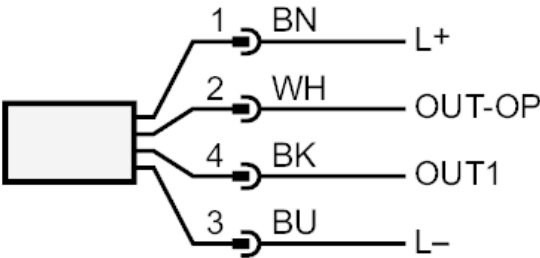
|               |        |
|---------------|--------|
| Pack quantity | 1 pcs. |
|---------------|--------|

Electrical connection

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



Connection



|        |                                                                            |
|--------|----------------------------------------------------------------------------|
| OUT1:  | Switching output                                                           |
| OUT-OP | Switching output overflow prevention to the German Federal Water Act (WHG) |
|        | Colors to DIN EN 60947-5-2                                                 |
|        | Core colors :                                                              |
| BK =   | black                                                                      |
| BN =   | brown                                                                      |
| BU =   | blue                                                                       |
| WH =   | white                                                                      |