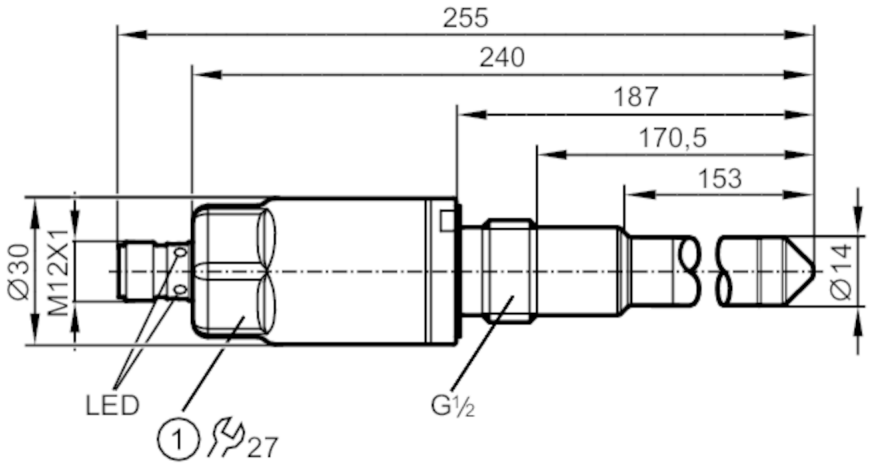
# LMT03A

## Sensor for point level detection in hazardous areas

LMDCE-A12E-QSKG-1/US/3D/3G




1 Tightening torque 20...25 Nm

EC 1935/2004 EHEDG Tested IO-Link

| | | |
|---|---|---|
| **Product characteristics** | | |
| Number of inputs and outputs | | Number of digital outputs: 2 |
| Factory setting | | oils; oil-based media; powder |
| Process connection | | threaded connection G 1/2 sealing cone |
| **Application** | | |
| Special feature | | Gold-plated contacts |
| Media | | Liquids; viscous media; powder |
| Cannot be used for | | See the operating instructions, chapter "Function and features". |
| Medium temperature | [°C] | -20...85 |
| Probe length | [mm] | 153 |
| Tank pressure | [bar] | -1...40 |
| **Electrical data** | | |
| Operating voltage | [V] | 18...30 DC |
| Current consumption | [mA] | < 50 |
| Protection class | | III |
| 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/NPN |
| Number of digital outputs | | 2 |
| Output function | | normally open / normally closed; (parameterisable) |
| Max. voltage drop switching output DC | [V] | 2.5 |

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| | | | |
|---|---|---|---|
| Permanent current rating of switching output DC | [mA] | 100 | |
| Short-circuit protection | | yes | |
| Type of short-circuit protection | | pulsed | |
| Overload protection | | yes | |
| **Measuring/setting range** | | | |
| Factory setting | | oils; oil-based media; powder | |
| **Response 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 type | | A | |
| Process data analogue | | 1 | |
| Process data binary | | 2 | |
| Min. process cycle time | [ms] | 2.3 | |
| Supported DeviceIDs | | **Type of operation** | **DeviceID** |
| | | default | 642 |
| **Operating conditions** | | | |
| Ambient temperature | [°C] | -20...60 | |
| Storage temperature | [°C] | -40...85 | |
| Protection | | IP 67; (when used outside the hazardous area: IP 68 / IP 69) | |
| **Tests / approvals** | | | |
| ATEX marking | | II 3D Ex tc IIIC T90°C Dc X | |
| | | II 3G Ex nA IIC T4 Gc X | |
| EMC | | DIN EN 61000-6-2 | |
| | | DIN EN 61000-6-4 | closed tanks |
| Shock resistance | | DIN EN 60068-2-27 | 50 g (11 ms) |
| Vibration resistance | | DIN EN 60068-2-6 | 8 g (10...2000 Hz) |
| MTTF | [years] | 222 | |
| **Mechanical data** | | | |
| Weight | [g] | 329 | |
| Materials | | stainless steel (316L/1.4404); stainless steel (316Ti/1.4571); PEEK; PEI; FKM | |
| Materials (wetted parts) | | stainless steel (316L/1.4404); stainless steel (316Ti/1.4571); PEEK; surface characteristics: Ra < 0,8 / Rz 4; FKM | |
| Process connection | | threaded connection G 1/2 sealing cone | |
| **Displays / operating elements** | | | |
| Display | | switching status | LED, yellow |
| | | operating status | LED, green |

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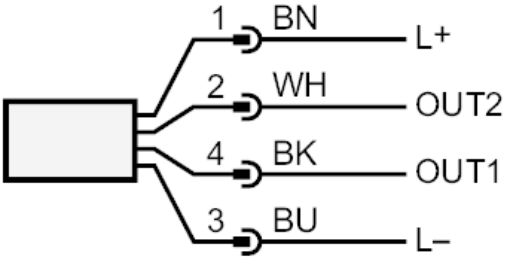
| Remarks | |
|---|---|
| Pack quantity | 1 pcs. |

## Electrical connection

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

### Connection




| | |
|---|---|
| OUT1: | switching output IO-Link Teach |
| OUT2: | switching output |
| | colours to DIN EN 60947-5-2 |
| | Core colours : |
| BK = | black |
| BN = | brown |
| BU = | blue |
| WH = | white |