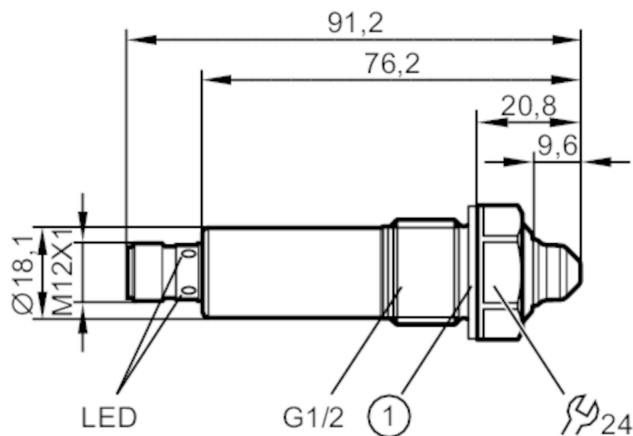


# LMC400



## Sensor for point level detection

LMGCE-C12E-QSKG-0/US



1 sealing



### Product characteristics

|                              |                              |
|------------------------------|------------------------------|
| Number of inputs and outputs | Number of digital outputs: 2 |
| Factory setting              | water; water-based media     |
| Process connection           | G 1/2 external thread        |

### Application

|                                                |                                                                   |
|------------------------------------------------|-------------------------------------------------------------------|
| System                                         | gold-plated contacts                                              |
| Media                                          | water; water-based media; oils; oil-based media; Coolants; powder |
| Cannot be used for                             | See the operating instructions, chapter "Function and features".  |
| Medium temperature [°C]                        | -25...100                                                         |
| Probe length [mm]                              | 9.6                                                               |
| Tank pressure                                  | -1...40 bar   -0.1...4 MPa                                        |
| MAWP (for applications according to CRN) [bar] | 40                                                                |

|                         |           |
|-------------------------|-----------|
| Oil                     |           |
| Medium temperature [°C] | -25...100 |

### Electrical data

|                             |            |
|-----------------------------|------------|
| Operating voltage [V]       | 18...30 DC |
| Current consumption [mA]    | < 35       |
| Protection class            | III        |
| Reverse polarity protection | yes        |

### 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                         |

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|                                                      |                                        |  |
|------------------------------------------------------|----------------------------------------|--|
| Output function                                      | normally open / closed; (configurable) |  |
| Max. voltage drop switching output DC [V]            | 2.5                                    |  |
| Permanent current rating of switching output DC [mA] | 50; (100 (...60 °C))                   |  |
| Short-circuit protection                             | yes                                    |  |
| Type of short-circuit protection                     | thermal, pulsed                        |  |
| Overload protection                                  | yes                                    |  |

### Measuring/setting range

|                 |                          |
|-----------------|--------------------------|
| Factory setting | water; 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, Device Diagnosis |                 |
| 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          | <b>Type of operation</b>                                                     | <b>DeviceID</b> |
|                              | default                                                                      | 674             |

### Operating conditions

|                             |                                                                                              |
|-----------------------------|----------------------------------------------------------------------------------------------|
| Ambient temperature [°C]    | -25...85                                                                                     |
| Note on ambient temperature | for installation in probe observe the temperature in the pipe, see installation instructions |
| Storage temperature [°C]    | -40...85                                                                                     |
| Protection                  | IP 68; IP 69K; (7 days / 1 m water depth / 0.1 bar: IP 68)                                   |

### Tests / approvals

|                      |                    |                     |
|----------------------|--------------------|---------------------|
| EMC                  | DIN EN 61000-6-2   |                     |
|                      | DIN EN 61000-6-3   | : closed tanks      |
|                      | DIN EN 61000-6-4   | : open tanks        |
|                      | DIN EN 60068-2-27  | 50 g (11 ms)        |
| Shock resistance     | DIN EN 60068-2-6   | 20 g (10...2000 Hz) |
| Vibration resistance |                    |                     |
| MTTF [years]         | 534                |                     |
| UL approval          | UL approval number | H004                |

### Mechanical data

|                          |                                                 |  |
|--------------------------|-------------------------------------------------|--|
| Weight [g]               | 127.5                                           |  |
| Dimensions [mm]          | Ø 18.1 / L = 76.2                               |  |
| Material                 | stainless steel (1.4404 / 316L); PEEK; PEI; FKM |  |
| Materials (wetted parts) | stainless steel (1.4404 / 316L); PEEK; FKM      |  |
| Process connection       | G 1/2 external thread                           |  |

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### Displays / operating elements

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

### Remarks

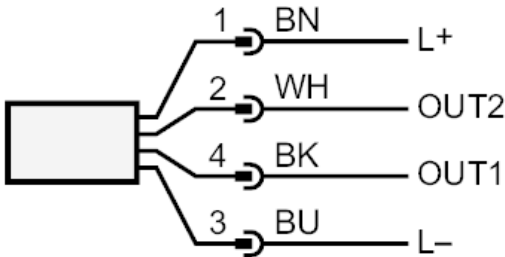
|               |        |
|---------------|--------|
| Pack quantity | 1 pcs. |
|---------------|--------|

### Electrical connection

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



### Connection



OUT1: Switching output IO-Link  
OUT2: Switching output  
Colors to DIN EN 60947-5-2  
Core colors :  
BK = black  
BN = brown  
BU = blue  
WH = white