

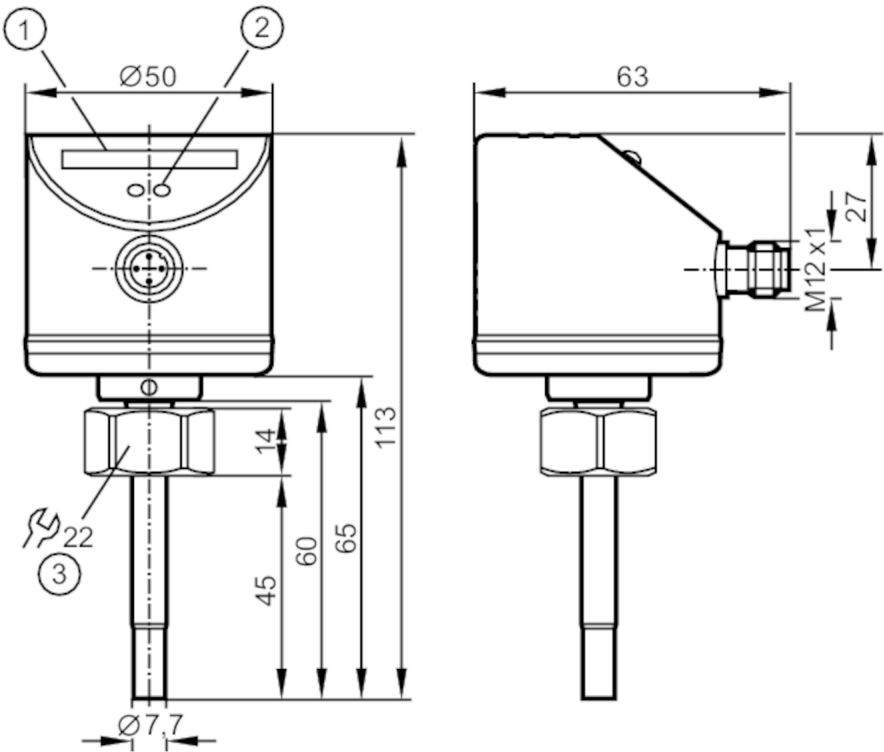
# SI0555



## Flow monitor

SID10ABBFPKG/US-100

phase-out article



- 1 LED bar display
- 2 setting pushbutton
- 3 Tightening torque 25 Nm



| Product characteristics      |       |                              |
|------------------------------|-------|------------------------------|
| Number of inputs and outputs |       | Number of digital outputs: 1 |
| Process connection           |       | M18 x 1,5 internal thread    |
| Application                  |       |                              |
| Media                        |       | Liquids; Gases               |
| Medium temperature           | [°C]  | -25...80                     |
| Pressure rating              | [bar] | 30                           |
| Liquids                      |       |                              |
| Medium temperature           | [°C]  | -25...80                     |
| Gases                        |       |                              |
| Medium temperature           | [°C]  | -25...80                     |
| Electrical data              |       |                              |
| Operating voltage tolerance  | [%]   | > -10                        |
| Operating voltage            | [V]   | 48 DC                        |
| Current consumption          | [mA]  | < 40                         |
| Protection class             |       | III                          |
| Reverse polarity protection  |       | yes                          |



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|                                                 |              |                                                              |
|-------------------------------------------------|--------------|--------------------------------------------------------------|
| Power-on delay time                             | [s]          | 10                                                           |
| <b>Inputs / outputs</b>                         |              |                                                              |
| Number of inputs and outputs                    |              | Number of digital outputs: 1                                 |
| <b>Outputs</b>                                  |              |                                                              |
| 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]         | 250                                                          |
| Short-circuit protection                        |              | yes                                                          |
| Type of short-circuit protection                |              | pulsed                                                       |
| Overload protection                             |              | yes                                                          |
| <b>Measuring/setting range</b>                  |              |                                                              |
| Probe length L                                  | [mm]         | 45                                                           |
| <b>Liquids</b>                                  |              |                                                              |
| Setting range                                   | [cm/s]       | 3...300                                                      |
| Greatest sensitivity                            | [cm/s]       | 3...100                                                      |
| <b>Gases</b>                                    |              |                                                              |
| Setting range                                   | [cm/s]       | 200...3000                                                   |
| Greatest sensitivity                            | [cm/s]       | 200...800                                                    |
| <b>Accuracy / deviations</b>                    |              |                                                              |
| Repeatability                                   | [cm/s]       | 1...5                                                        |
| Note on repeatability                           |              | for water 5...100 cm/s; 25 °C<br>Factory setting             |
| Temperature drift                               | [cm/s x 1/K] | 0.1; (for water 5...100 cm/s; 10...70 °C)                    |
| Temperature gradient                            | [K/min]      | 300                                                          |
| Switch point accuracy                           | [cm/s]       | ± 2...± 10; (for water 5...100 cm/s; 25 °C; Factory setting) |
| Hysteresis                                      | [cm/s]       | 2...5; (for water 5...100 cm/s; 25 °C; Factory setting)      |
| <b>Response times</b>                           |              |                                                              |
| Response time                                   | [s]          | 1...10                                                       |
| <b>Liquids</b>                                  |              |                                                              |
| Response time                                   | [s]          | 1...10                                                       |
| <b>Gases</b>                                    |              |                                                              |
| Response time                                   | [s]          | 1...10                                                       |
| <b>Software / programming</b>                   |              |                                                              |
| Adjustment of the switch point                  |              | pushbutton                                                   |
| <b>Operating conditions</b>                     |              |                                                              |
| Ambient temperature                             | [°C]         | -25...80                                                     |

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|                     |      |           |
|---------------------|------|-----------|
| Storage temperature | [°C] | -25...100 |
| Protection          |      | IP 67     |

### Tests / approvals

|                      |                           |                     |
|----------------------|---------------------------|---------------------|
| EMC                  | EN 61000-4-2 ESD          | 4 kV CD / 8 kV AD   |
|                      | EN 61000-4-3 HF radiated  | 10 V/m              |
|                      | EN 61000-4-4 Burst        | 2 kV                |
|                      | EN 61000-4-6 HF conducted | 10 V                |
| Shock resistance     | DIN IEC 68-2-27           | 50 g (11 ms)        |
| Vibration resistance | DIN EN 60068-2-6          | 20 g (55...2000 Hz) |
| MTTF                 | [years]                   | 275                 |

### Mechanical data

|                          |      |                                                                                     |
|--------------------------|------|-------------------------------------------------------------------------------------|
| Weight                   | [g]  | 245.65                                                                              |
| Dimensions               | [mm] | M18 x 1.5                                                                           |
| Thread designation       |      | M18 x 1.5                                                                           |
| Materials                |      | stainless steel (316L/1.4404); stainless steel (1.4310 / 301); PC; PBT-GF20; EPDM/X |
| Materials (wetted parts) |      | stainless steel (316L/1.4404); O-ring: FKM 80 Shore A                               |
| Process connection       |      | M18 x 1,5 internal thread                                                           |

### Displays / operating elements

|         |          |                        |
|---------|----------|------------------------|
| Display | function | 10 x LED, three-colour |
|---------|----------|------------------------|

### Remarks

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

### Electrical connection

Connector: 1 x M12; coding: A



### Connection

