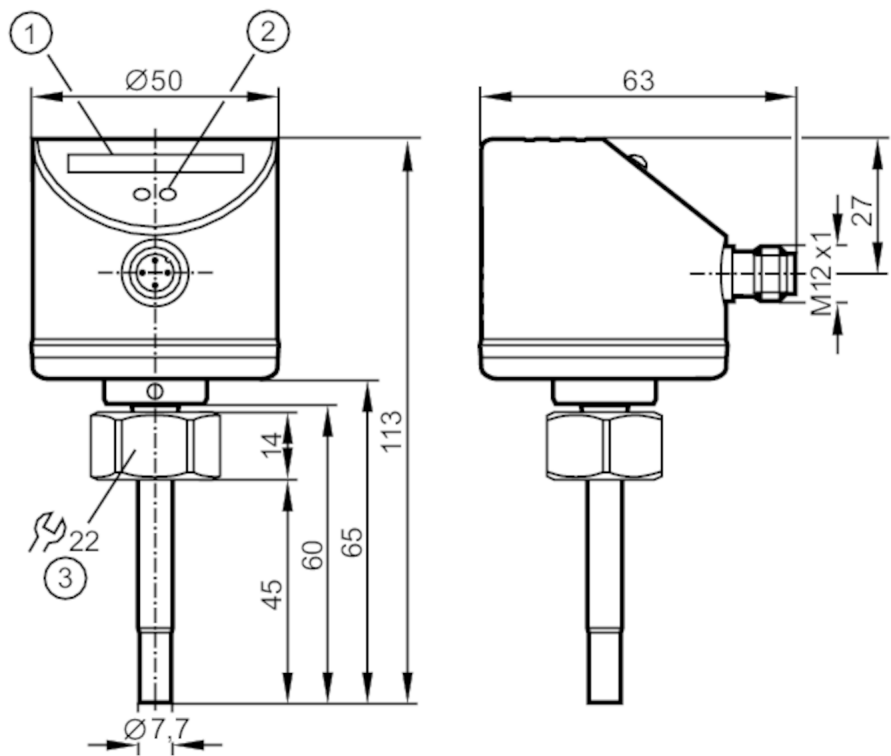




Flow monitor

SID10ABBFNKG/US-100



- 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           |  | threaded connection M18 x 1,5 internal thread |       |
| Application                  |  |                                               |       |
| Media                        |  | Liquids; Gases                                |       |
| Medium temperature [°C]      |  | -25...80                                      |       |
| Pressure rating              |  | 30 bar                                        | 3 MPa |
| Liquids                      |  |                                               |       |
| Medium temperature [°C]      |  | -25...80                                      |       |
| Gases                        |  |                                               |       |
| Medium temperature [°C]      |  | -25...80                                      |       |
| Electrical data              |  |                                               |       |
| Operating voltage [V]        |  | 19...36 DC                                    |       |
| Current consumption [mA]     |  | < 60                                          |       |
| Protection class             |  | III                                           |       |
| Reverse polarity protection  |  | yes                                           |       |
| Power-on delay time [s]      |  | 10                                            |       |
| Inputs / outputs             |  |                                               |       |
| Number of inputs and outputs |  | Number of digital outputs: 1                  |       |



## Flow monitor

SID10ABBFNKG/US-100

| Outputs                                         |              |                                                              |
|-------------------------------------------------|--------------|--------------------------------------------------------------|
| Total number of outputs                         |              | 1                                                            |
| Output signal                                   |              | switching signal                                             |
| Electrical design                               |              | NPN                                                          |
| 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                                                          |
| Measuring/setting range                         |              |                                                              |
| Probe length L                                  | [mm]         | 45                                                           |
| Liquids                                         |              |                                                              |
| Setting range                                   | [cm/s]       | 3...300                                                      |
| Greatest sensitivity                            | [cm/s]       | 3...100                                                      |
| Gases                                           |              |                                                              |
| Setting range                                   | [cm/s]       | 200...3000                                                   |
| Greatest sensitivity                            | [cm/s]       | 200...800                                                    |
| Accuracy / deviations                           |              |                                                              |
| Repeatability                                   | [cm/s]       | 1...5                                                        |
| Note on repeatability                           |              | for water 5...100 cm/s; 25 °C                                |
|                                                 |              | 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)      |
| Response times                                  |              |                                                              |
| Response time                                   | [s]          | 1...10                                                       |
| Liquids                                         |              |                                                              |
| Response time                                   | [s]          | 1...10                                                       |
| Gases                                           |              |                                                              |
| Response time                                   | [s]          | 1...10                                                       |
| Software / programming                          |              |                                                              |
| Adjustment of the switch point                  |              | pushbutton                                                   |
| Operating conditions                            |              |                                                              |
| Ambient temperature                             | [°C]         | -25...80                                                     |
| Storage temperature                             | [°C]         | -25...100                                                    |
| Protection                                      |              | IP 67                                                        |

# SI5001



## Flow monitor

SID10ABBFNKG/US-100

| 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]                   | 271                 |

| Mechanical data          |      |                                                                                   |
|--------------------------|------|-----------------------------------------------------------------------------------|
| Weight                   | [g]  | 227                                                                               |
| Housing                  |      | cylindrical                                                                       |
| Dimensions               | [mm] | Ø 50 / L = 113                                                                    |
| Materials                |      | stainless steel (316L/1.4404); stainless steel (301/1.4310); PC; PBT-GF20; EPDM/X |
| Materials (wetted parts) |      | stainless steel (316L/1.4404); O-ring: FKM 80 Shore A                             |
| Process connection       |      | threaded connection M18 x 1,5 internal thread                                     |
| Probe diameter           | [mm] | 8.2                                                                               |
| Installation length EL   | [mm] | 45                                                                                |

| Displays / operating elements |          |                        |
|-------------------------------|----------|------------------------|
| Display                       | function | 10 x LED, three-colour |

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

### Electrical connection

Connector: 1 x M12; coding: A



### Connection

