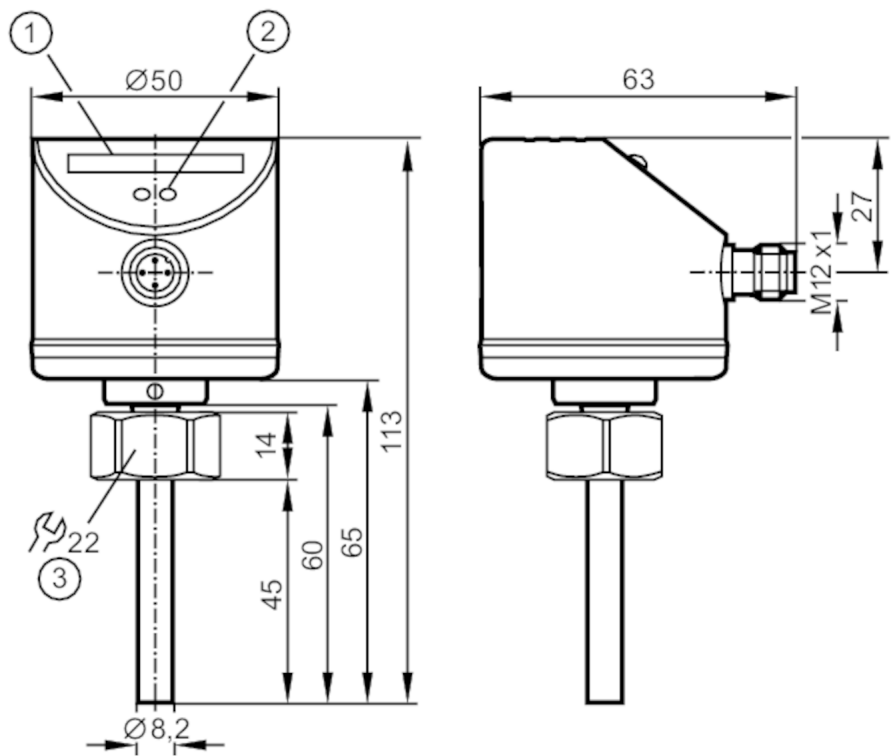




Flow monitor

SID10ADBFPKG/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: 2 |
| Process connection           | M18 x 1,5 internal thread    |
| Application                  |                              |
| Media                        | Liquids                      |
| Medium temperature [°C]      | -15...70                     |
| Electrical data              |                              |
| Operating voltage [V]        | 24 DC; (18...32 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: 2 |
| Outputs                      |                              |
| Total number of outputs      | 2                            |
| Output signal                | switching signal             |
| Electrical design            | PNP                          |
| Number of digital outputs    | 2                            |



## Flow monitor

SID10ADBFPKG/US-100

|                                                      |  |                                                                                   |                                          |
|------------------------------------------------------|--|-----------------------------------------------------------------------------------|------------------------------------------|
| 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                                                                                |                                          |
| Setting range [cm/s]                                 |  | 3...300                                                                           |                                          |
| Greatest sensitivity [cm/s]                          |  | 3...100                                                                           |                                          |
| Accuracy / deviations                                |  |                                                                                   |                                          |
| Repeatability [% of Sr]                              |  | 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; 15...70 °C)                                         |                                          |
| Temperature gradient [K/min]                         |  | 300                                                                               |                                          |
| Switch point accuracy [cm/s]                         |  | ± 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                                                                            |                                          |
| Software / programming                               |  |                                                                                   |                                          |
| Adjustment of the switch point                       |  | pushbutton                                                                        |                                          |
| Operating conditions                                 |  |                                                                                   |                                          |
| Ambient temperature [°C]                             |  | -25...80                                                                          |                                          |
| Storage temperature [°C]                             |  | -25...100                                                                         |                                          |
| Protection                                           |  | IP 67                                                                             |                                          |
| Tests / approvals                                    |  |                                                                                   |                                          |
| EMC                                                  |  | DIN EN 61000-4-2 ESD                                                              | 6 kV CD / 8 kV AD                        |
|                                                      |  | DIN EN 61000-4-3 HF radiated                                                      | 10 V/m                                   |
|                                                      |  | DIN EN 61000-4-4 Burst                                                            | 2 kV                                     |
|                                                      |  | DIN EN 61000-4-5 Surge                                                            | 0,5 kV / 1 kV                            |
|                                                      |  | DIN EN 61000-4-6 HF conducted                                                     | 10 V                                     |
| Shock resistance                                     |  | DIN EN 60068-2-27                                                                 | 50 g (11 ms)                             |
| Vibration resistance                                 |  | DIN EN 60068-2-6                                                                  | 1.6 mm (2...25 Hz) / 20 g (25...2000 Hz) |
| MTTF [years]                                         |  | 267                                                                               |                                          |
| Mechanical data                                      |  |                                                                                   |                                          |
| Weight [g]                                           |  | 244.85                                                                            |                                          |
| Dimensions [mm]                                      |  | M18 x 1.5                                                                         |                                          |
| Thread designation                                   |  | M18 x 1.5                                                                         |                                          |
| 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                             |                                          |

# SI0557



## Flow monitor

SID10ADBFPKG/US-100

|                               |                           |                        |
|-------------------------------|---------------------------|------------------------|
| 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

