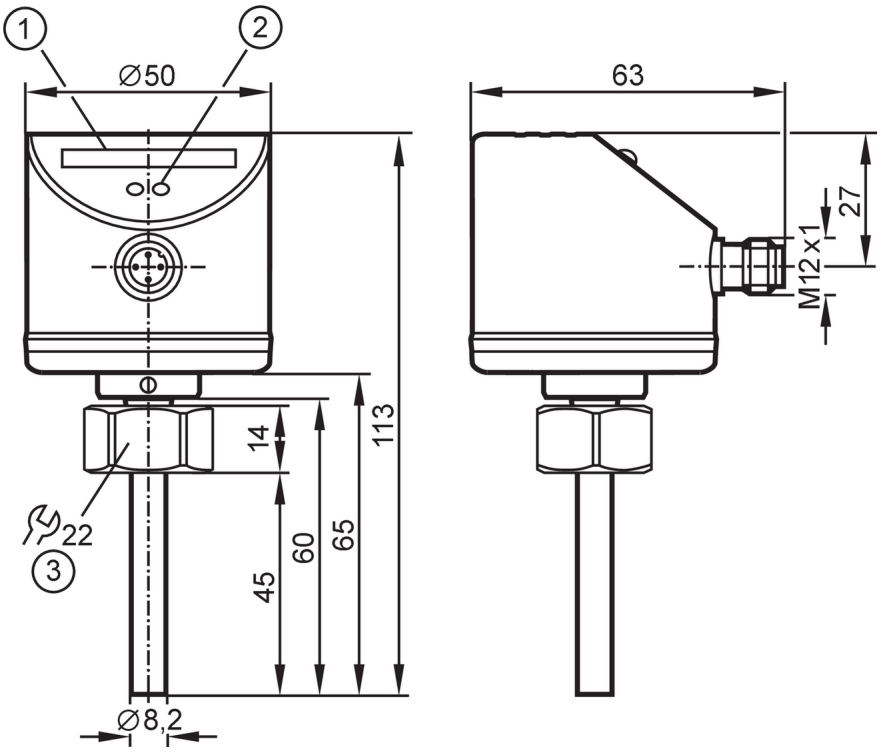
# SI5100

## Flow monitor

SID10ADTFPKG/US-100

Observe the changed pressure rating.




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; aggressive media | |
| Medium temperature | [°C] | -25...80 | |
| Pressure rating | | 100 bar | 10 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 | |
| Min. insulation resistance | [MΩ] | 100; (500 V DC) | |
| Protection class | | III | |
| Reverse polarity protection | | yes | |
| Power-on delay time | [s] | 10 | |

# SI5100

## Flow monitor

SID10ADTFPKG/US-100

| | | |
|---|---|---|
| **Inputs / outputs** | | |
| Number of inputs and outputs | | Number of digital outputs: 1 |
| **Outputs** | | |
| 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 |
| **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** | | |
| 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 |

# SI5100

## Flow monitor

SID10ADTFPKG/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] | 298 | |
| UL approval | | UL approval no. | I02X |

| Mechanical data | | |
|---|---|---|
| Weight | [g] | 221.85 |
| 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) | | titanium (3.7035); 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 |

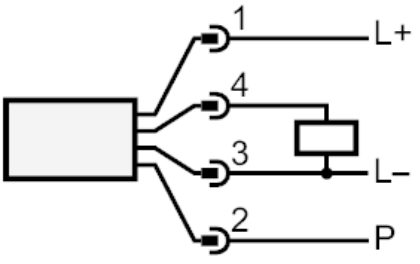
| Remarks | |
|---|---|
| Pack quantity | 1 pcs. |

## Electrical connection

Connector: 1 x M12; coding: A; Contacts: 4




### Connection




P = programming wire for remote calibration