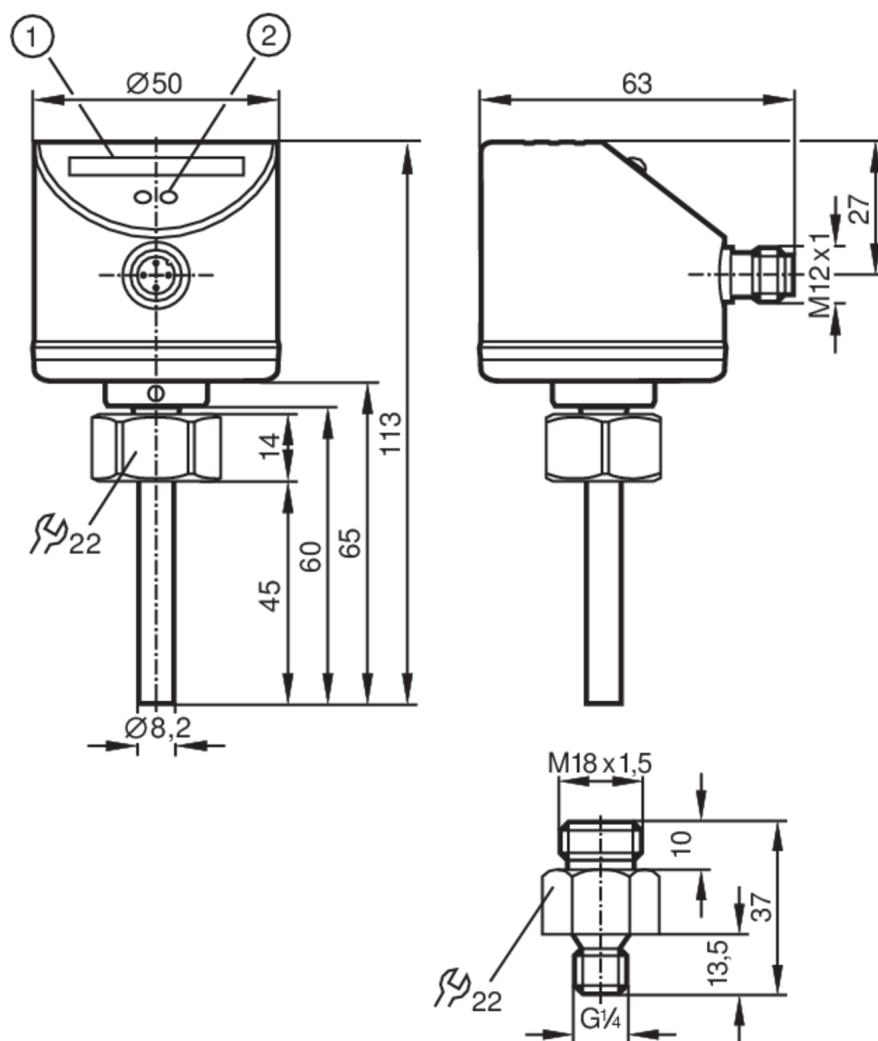




## Flow monitor

KIT, SI5010 W/E40099



- 1 LED bar display
- 2 setting pushbutton



### Product characteristics

Number of inputs and outputs

Number of digital outputs: 1

Process connection

threaded connection G 1/4 external thread

### Application

Media

Liquids; Gases

Medium temperature

[°C]

-25...80

Liquids

Medium temperature

[°C]

-25...80

Gases

Medium temperature

[°C]

-25...80

### Electrical data

Operating voltage

[V]

19...36 DC



## Flow monitor

KIT, SI5010 W/E40099

|                                                 |              |                                                              |
|-------------------------------------------------|--------------|--------------------------------------------------------------|
| Current consumption                             | [mA]         | < 60                                                         |
| Protection class                                |              | III                                                          |
| Reverse polarity protection                     |              | yes                                                          |
| 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>                  |              |                                                              |
| <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>                           |              |                                                              |
| <b>Liquids</b>                                  |              |                                                              |
| Response time                                   | [s]          | 1...2; (for a temperature gradient: 1 K/min)                 |
| <b>Gases</b>                                    |              |                                                              |
| Response time                                   | [s]          | 1...10                                                       |
| <b>Software / programming</b>                   |              |                                                              |
| Adjustment of the switch point                  |              | pushbutton                                                   |



## Flow monitor

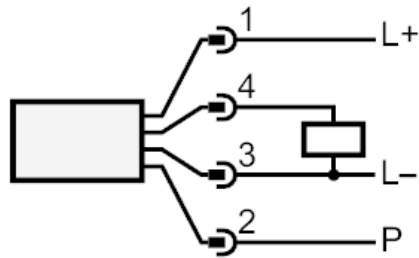
KIT, SI5010 W/E40099

| Operating conditions                                                                |                           |                                                       |
|-------------------------------------------------------------------------------------|---------------------------|-------------------------------------------------------|
| Ambient temperature                                                                 | [°C]                      | -25...80                                              |
| 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)                                   |
| Mechanical data                                                                     |                           |                                                       |
| Weight                                                                              | [g]                       | 308.443                                               |
| Housing                                                                             |                           | cylindrical                                           |
| Dimensions                                                                          | [mm]                      | Ø 50 / L = 113                                        |
| Materials                                                                           |                           | stainless steel (304/1.4301); PC; PBT-GF20; EPDM/X    |
| Materials (wetted parts)                                                            |                           | stainless steel (316L/1.4404); O-ring: FKM 80 Shore A |
| Process connection                                                                  |                           | threaded connection G 1/4 external thread             |
| Probe diameter                                                                      | [mm]                      | 8.2                                                   |
| Installation length EL                                                              | [mm]                      | 31.5                                                  |
| Displays / operating elements                                                       |                           |                                                       |
| Display                                                                             | function                  | 10 x LED, three-colour                                |
| Accessories                                                                         |                           |                                                       |
| Items supplied                                                                      |                           | Adapter: 1 x G1/4 BSPP, E40099                        |
| Remarks                                                                             |                           |                                                       |
| Pack quantity                                                                       |                           | 1 pcs.                                                |
| Electrical connection                                                               |                           |                                                       |
| Connector: 1 x M12; coding: A                                                       |                           |                                                       |
|  |                           |                                                       |

## Flow monitor

KIT, SI5010 W/E40099

### Connection



P = programming wire for remote calibration