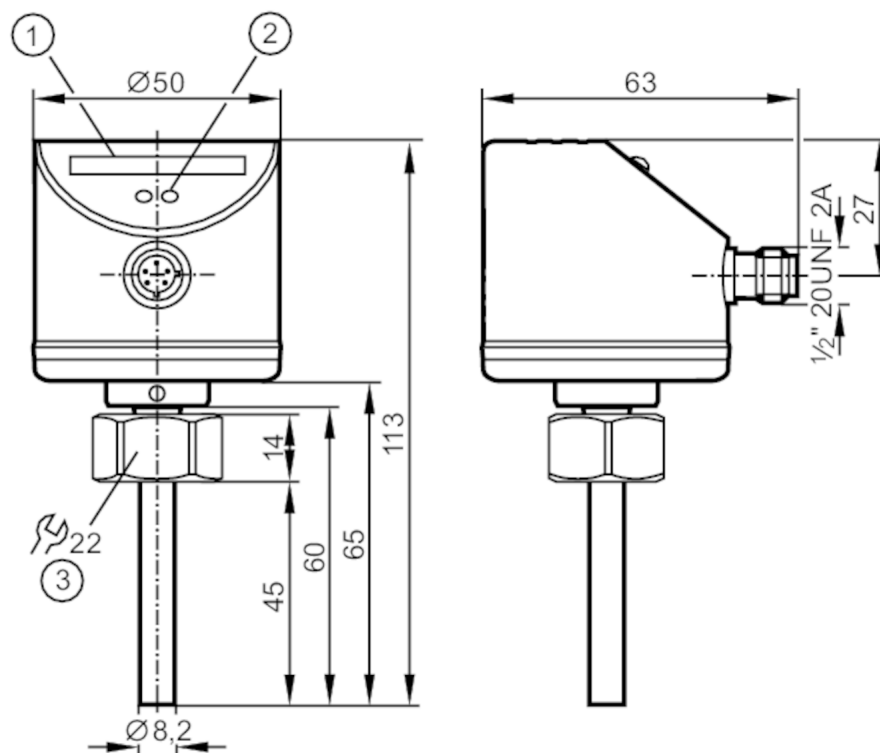




## Flow monitor

SID10ADBFW/LS-100-IRF



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



## Application

|                                          |       |                |
|------------------------------------------|-------|----------------|
| Media                                    |       | Liquids; Gases |
| Medium temperature                       | [°C]  | -25...80       |
| Pressure rating                          | [bar] | 300            |
| MAWP (for applications according to CRN) | [bar] | 208            |
| Liquids                                  |       |                |
| Medium temperature                       | [°C]  | -25...80       |
| Gases                                    |       |                |
| Medium temperature                       | [°C]  | -25...80       |

## Electrical data

|                             |     |               |
|-----------------------------|-----|---------------|
| Operating voltage tolerance | [%] | -15...10      |
| Operating voltage           | [V] | 76.5...264 AC |
| Nominal voltage AC          | [V] | < 240         |
| Protection class            |     | II            |
| Reverse polarity protection |     | no            |
| Power-on delay time         | [s] | 10            |

## Inputs / outputs

|                              |                              |
|------------------------------|------------------------------|
| Number of inputs and outputs | Number of digital outputs: 1 |
|------------------------------|------------------------------|



## Flow monitor

SID10ADBFKOW/LS-100-IRF

| Outputs                        |                   |                                                                                                                                                                      |
|--------------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Total number of outputs        |                   | 1                                                                                                                                                                    |
| Output signal                  |                   | switching signal                                                                                                                                                     |
| Electrical design              |                   | relay                                                                                                                                                                |
| Number of digital outputs      |                   | 1                                                                                                                                                                    |
| Output function                |                   | normally open / normally closed; (parameterisable)                                                                                                                   |
| Contact rating                 |                   | 3 A (250 V AC / 30 V DC); (number of switching cycles: 20 million mechanically; switching cycles at 3 A load: 100,000 electrical; type of switch-off: normally open) |
| Short-circuit proof            |                   | no                                                                                                                                                                   |
| Overload protection            |                   | no                                                                                                                                                                   |
| Measuring/setting range        |                   |                                                                                                                                                                      |
| 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                  | [% of Sr]         | 1...5                                                                                                                                                                |
| Temperature gradient           | [K/min]           | 300                                                                                                                                                                  |
| Switch point accuracy          | [cm/s]            | $\pm 2... \pm 10$ ; (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                                                                                                                                                                |
| Tests / approvals              |                   |                                                                                                                                                                      |
| EMC                            | DIN EN 61000-6-2  |                                                                                                                                                                      |
|                                | DIN EN 61000-6-3  |                                                                                                                                                                      |
| Shock resistance               | DIN EN 60068-2-27 | 50 g (11 ms)                                                                                                                                                         |
| Vibration resistance           | DIN EN 60068-2-6  | 20 g (55...2000 Hz)                                                                                                                                                  |
| MTTF                           | [years]           | 221                                                                                                                                                                  |

SI0562



Flow monitor

SID10ADBFKOW/LS-100-IRF

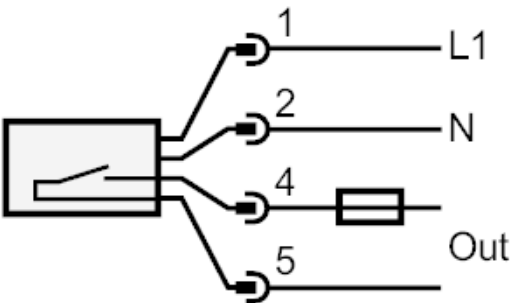
| Mechanical data               |          |                                                                                       |
|-------------------------------|----------|---------------------------------------------------------------------------------------|
| Weight                        | [g]      | 0.001                                                                                 |
| Dimensions                    | [mm]     | M18 x 1.5                                                                             |
| Thread designation            |          | M18 x 1.5                                                                             |
| Materials                     |          | stainless steel (1.4404 / 316L); stainless steel (1.4301 / 304); PC; PBT-GF20; EPDM/X |
| Materials (wetted parts)      |          | stainless steel (1.4404 / 316L); O-ring: EPDM                                         |
| Process connection            |          | M18 x 1,5 internal thread                                                             |
| Displays / operating elements |          |                                                                                       |
| Display                       | function | 10 x LED, three-colour                                                                |
| Electrical connection         |          |                                                                                       |
| Required protection           |          | miniature fuse to IEC60127-2 sheet 1; ≤ 5 A; fast acting                              |
| Remarks                       |          |                                                                                       |
| Remarks                       |          | Recommendation Check the safe functioning of the unit after a short circuit.          |
| Pack quantity                 |          | 1 pcs.                                                                                |

Electrical connection

Connector: 1 x 1/2"



Connection



Note miniature fuse to IEC60127-2 sheet 1 ≤ 5 A fast acting