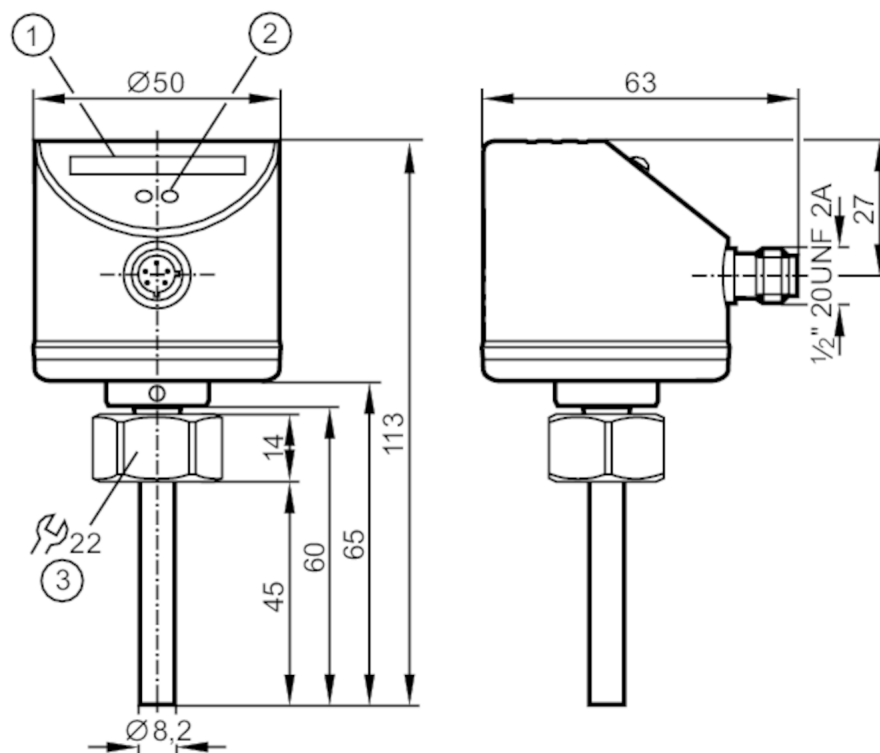


## Flow monitor

SID10ADBFKOW/LS-100-IRF



- 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           | M18 x 1,5 internal thread    |

## 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

|                                 |             |
|---------------------------------|-------------|
| Frequency AC [Hz]               | 47...63     |
| Operating voltage tolerance [%] | -15...10    |
| Operating voltage [V]           | 90...240 AC |
| Max. power consumption [VA]     | 3.5         |
| Protection class                | II          |



## Flow monitor

SID10ADBFKOW/LS-100-IRF

|                                |              |                                                                                                                                                                      |
|--------------------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reverse polarity protection    |              | no                                                                                                                                                                   |
| 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              |              | 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                                                                                                                                                                   |
| <b>Measuring/setting range</b> |              |                                                                                                                                                                      |
| 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                                                                                                                                                            |
| <b>Accuracy / deviations</b>   |              |                                                                                                                                                                      |
| Repeatability                  | [X01]        | 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>          |              |                                                                                                                                                                      |
| Response time                  | [s]          | 1...10                                                                                                                                                               |
| Liquids                        |              |                                                                                                                                                                      |
| Response time                  | [s]          | 1...10                                                                                                                                                               |
| Gases                          |              |                                                                                                                                                                      |
| Response time                  | [s]          | 1...10                                                                                                                                                               |
| <b>Software / programming</b>  |              |                                                                                                                                                                      |
| Adjustment of the switch point |              | pushbutton                                                                                                                                                           |
| <b>Operating conditions</b>    |              |                                                                                                                                                                      |
| Ambient temperature            | [°C]         | -25...80                                                                                                                                                             |
| Storage temperature            | [°C]         | -25...100                                                                                                                                                            |
| Protection                     |              | IP 67                                                                                                                                                                |



Flow monitor

SID10ADBFKOW/LS-100-IRF

| 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  | 18 g (55...2000 Hz) |
| MTTF                 | [ANN]             | 221                 |
| UL approval          | File number UL    | E174189             |

| Mechanical data          |                                                                                       |           |
|--------------------------|---------------------------------------------------------------------------------------|-----------|
| Weight                   | [g]                                                                                   | 286.15    |
| 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 |  |

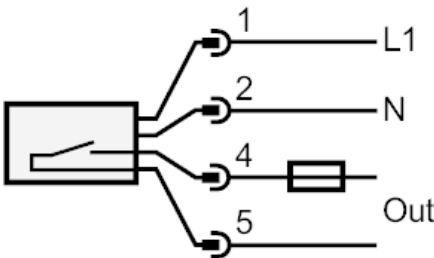
| Remarks       |                                                                              |  |
|---------------|------------------------------------------------------------------------------|--|
| Remarks       | Recommendation Check the safe functioning of the unit after a short circuit. |  |
| Pack quantity | 1 pcs.                                                                       |  |

Electrical connection

Connector: 1 x 1/2"; coding: C



Connection



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