

## 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: 1                  |
| Process connection           | threaded connection M18 x 1,5 internal thread |

## Application

|                         |                |
|-------------------------|----------------|
| Media                   | Liquids; Gases |
| Medium temperature [°C] | -25...80       |
| Pressure rating         | 300 bar 3 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       |
| Protection class            | III        |
| Reverse polarity protection | yes        |
| Power-on delay time [s]     | 10         |

## Inputs / outputs

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



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| 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                                  |              |                                                              |
| 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                                                        |



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## 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]         |                           | 288                 |
| UL approval          | UL Approval no.           | I02X                |

## Mechanical data

|                             |                                                                                   |
|-----------------------------|-----------------------------------------------------------------------------------|
| Weight [g]                  | 232.2                                                                             |
| 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)    | stainless steel (316L/1.4404); 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



## Connection

