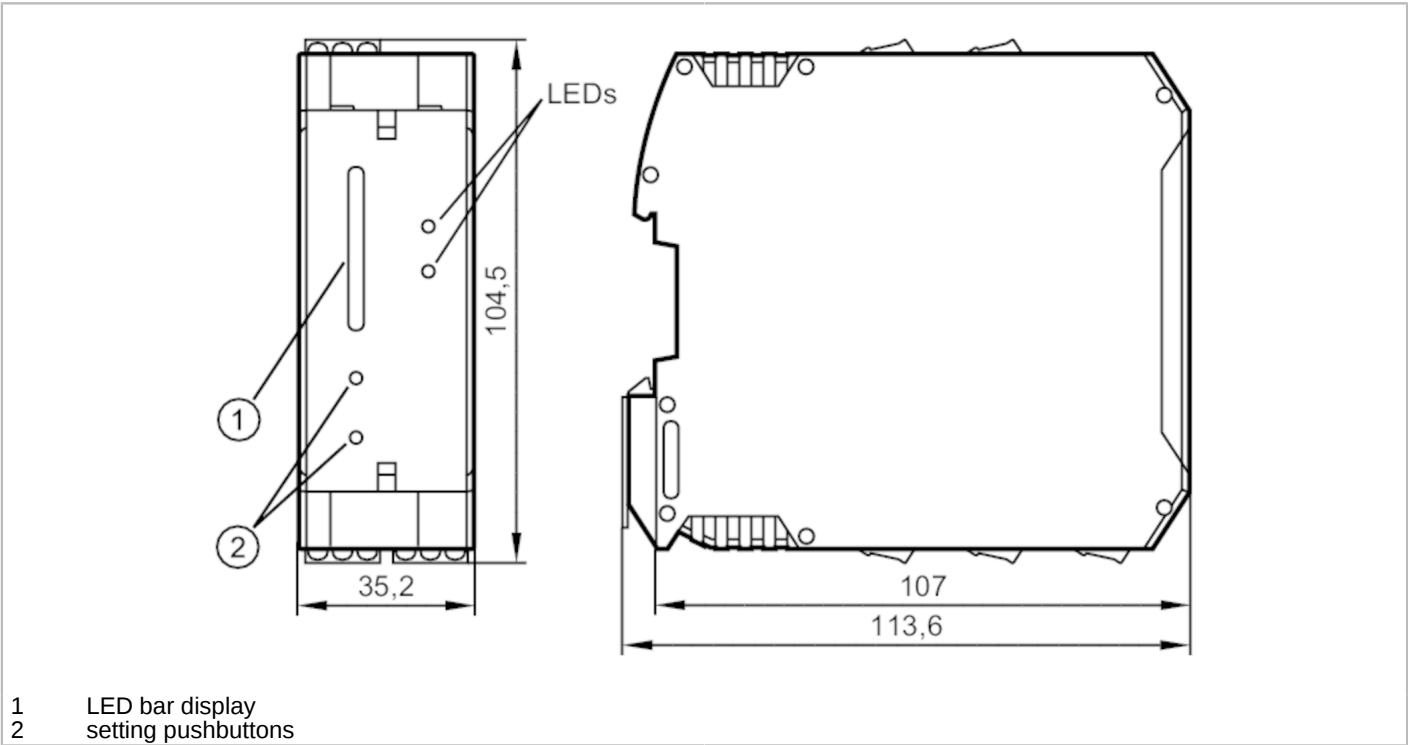


# SR307A



## Control monitor for flow sensors

VS4000/24VDC/EXI/1G



- 1 LED bar display  
2 setting pushbuttons



| Application                               |                                                                                                                                                     |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Application                               | Flow monitoring; Temperature monitoring; Wire monitoring                                                                                            |
| Electrical data                           |                                                                                                                                                     |
| Operating voltage tolerance [%]           | -15...15                                                                                                                                            |
| Operating voltage [V]                     | 24 DC                                                                                                                                               |
| Current consumption [mA]                  | 100                                                                                                                                                 |
| Reverse polarity protection               | no                                                                                                                                                  |
| Power-on delay time [s]                   | 10                                                                                                                                                  |
| Number of channels                        | 1                                                                                                                                                   |
| Outputs                                   |                                                                                                                                                     |
| Performance in case of a fault            | Relay de-energised in case of the following faults: wire break, reverse polarity or short circuit of the sensor cable, undervoltage, internal fault |
| Electrical design                         | relay                                                                                                                                               |
| Contact rating                            | 4 A (250 V AC cos phi > 0,7) ; 0,2 A (250 V DC); 4 A (24 V DC)                                                                                      |
| Switching function flow monitoring        | relay energised when flow is present                                                                                                                |
| Switching function temperature monitoring | relay de-energised when temperature is exceeded                                                                                                     |
| Short-circuit proof                       | no                                                                                                                                                  |
| Overload protection                       | no                                                                                                                                                  |
| Software / programming                    |                                                                                                                                                     |
| Adjustment of the switch point            | programming buttons                                                                                                                                 |

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## Control monitor for flow sensors

VS4000/24VDC/EXI/1G

| Operating conditions          |                  |                                                                                                                                                         |
|-------------------------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ambient temperature           | [°C]             | -20...60                                                                                                                                                |
| Storage temperature           | [°C]             | -25...80                                                                                                                                                |
| Protection                    |                  | IP 20                                                                                                                                                   |
| Protection rating terminals   |                  | IP 20                                                                                                                                                   |
| Tests / approvals             |                  |                                                                                                                                                         |
| Approval                      |                  | CSANe 21ATEX2238; IECEx CSA 21.0044                                                                                                                     |
| ATEX marking                  |                  | II (1) G [Ex ia Ga] IIC                                                                                                                                 |
|                               |                  | II (1) G [Ex ia Ga] IIB                                                                                                                                 |
| MTTF                          | [ANN]            | 124                                                                                                                                                     |
| Mechanical data               |                  |                                                                                                                                                         |
| Weight                        | [g]              | 368                                                                                                                                                     |
| Housing                       |                  | housing for DIN rail mounting                                                                                                                           |
| Dimensions                    | [mm]             | 104.5 x 32.5 x 113.6                                                                                                                                    |
| Materials                     |                  | PA                                                                                                                                                      |
| Displays / operating elements |                  |                                                                                                                                                         |
| Display                       | fault            | LED, red                                                                                                                                                |
|                               | function         | LED, bar graph                                                                                                                                          |
|                               | switching status | LED, yellow                                                                                                                                             |
| Electrical connection         |                  |                                                                                                                                                         |
| Required protection           |                  | miniature fuse to IEC60127-2 sheet 1; ≤ 5 A; fast acting; Place the fuse outside the hazardous area.                                                    |
| Remarks                       |                  |                                                                                                                                                         |
| Remarks                       |                  | Caution The control monitor must be mounted outside the hazardous area.<br>Recommendation Check the safe functioning of the unit after a short circuit. |
| Pack quantity                 |                  | 1 pcs.                                                                                                                                                  |

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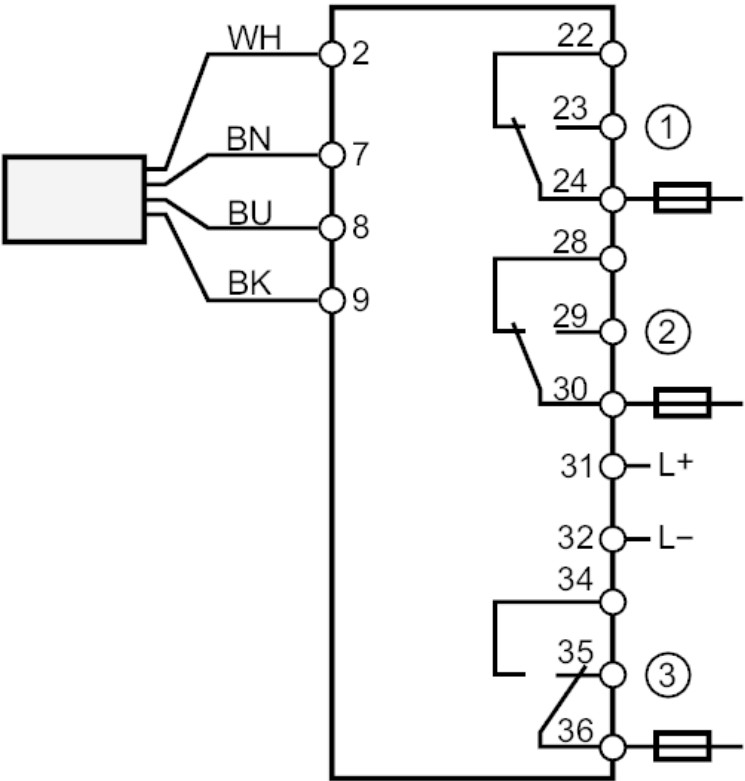
## Control monitor for flow sensors

VS4000/24VDC/EXI/1G

### Electrical connection

terminals: 15 x ...2.5 mm<sup>2</sup>

### Connection



- 1 Flow monitoring  
2 fault monitoring  
3 Temperature monitoring  
Note miniature fuse to IEC60127-2 sheet 1 ≤ 5 A fast acting  
Place the fuse outside the hazardous area.  
Core colours :  
BK = black  
BN = brown  
BU = blue  
WH = white

### Other data

#### Maximum values for control circuit

| in protection rating      | [Ex ia Ga] IIC | [Ex ia Ga] IIB | [Ex ib Gb] IIC | [Ex ib Gb] IIB |
|---------------------------|----------------|----------------|----------------|----------------|
| intrinsic safety          |                |                |                |                |
| Voltage [V]               | 9.6            | 9.6            | 9.6            | 9.6            |
| Current [mA]              | 332            | 332            | 332            | 332            |
| Power [mW]                | 531            | 531            | 531            | 531            |
| External inductance [mH]  | 0.3            | 1.2            | 0.3            | 1.2            |
| External capacitance [μF] | 3.15           | 25.55          | 3.15           | 25.55          |