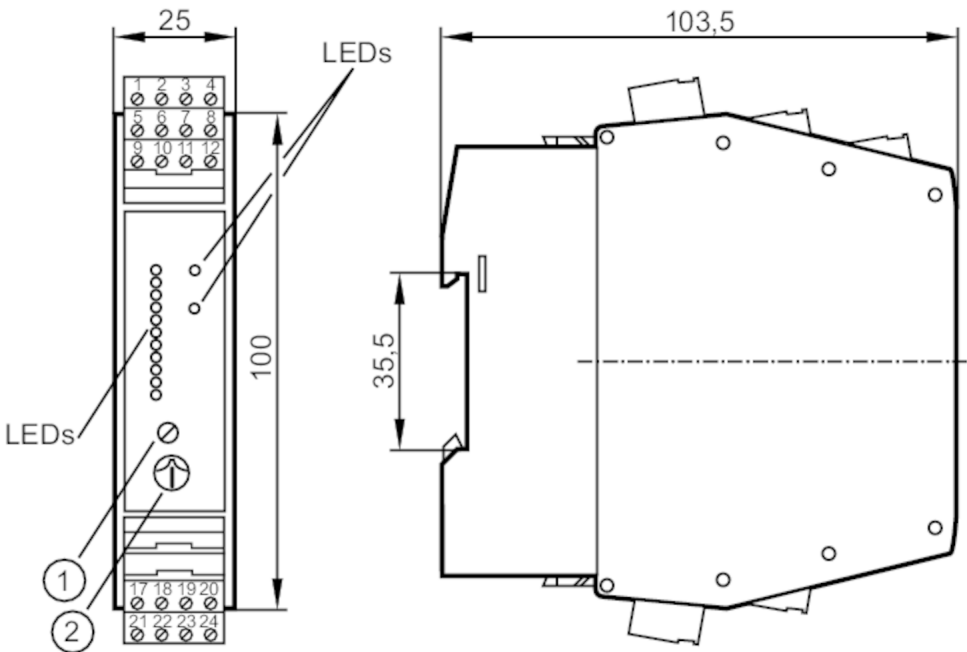




Control monitor for flow sensors

VS3000/85...265VAC



- 1 potentiometer (switch point flow)  
2 potentiometer (switch point temperature)



| Application                               |                                                                                                    |                                                               |
|-------------------------------------------|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| Application                               | Flow monitoring; Temperature monitoring; Wire monitoring                                           |                                                               |
| Electrical data                           |                                                                                                    |                                                               |
| Frequency AC                              | [Hz]                                                                                               | 47...63                                                       |
| Operating voltage tolerance               | [%]                                                                                                | -5...10                                                       |
| Operating voltage                         | [V]                                                                                                | 90...240 AC                                                   |
| Protection class                          |                                                                                                    | II                                                            |
| Reverse polarity protection               |                                                                                                    | no                                                            |
| Power-on delay time                       | [s]                                                                                                | 10...80; (adjustable (fixed-value resistors terminals 22-23)) |
| Number of channels                        |                                                                                                    | 1                                                             |
| Outputs                                   |                                                                                                    |                                                               |
| Performance in case of a fault            | In case of undervoltage all relays are de-energised; the LED "LOW VOLTAGE/WIRE BREAK-RELAY" lights |                                                               |
| Electrical design                         | relay                                                                                              |                                                               |
| Contact rating                            | 4 A (250 V AC / 30 V DC)                                                                           |                                                               |
| Switching function flow monitoring        | relay energised when flow is present and during the power-on delay time                            |                                                               |
| Switching function temperature monitoring | relay de-energised when temperature is exceeded                                                    |                                                               |
| Switching function wire break monitoring  | relay de-energised in case of wire break or short circuit                                          |                                                               |
| Short-circuit proof                       | no                                                                                                 |                                                               |
| Overload protection                       | no                                                                                                 |                                                               |



## Control monitor for flow sensors

VS3000/85...265VAC

| Response times                        |                  |                                                                                                       |
|---------------------------------------|------------------|-------------------------------------------------------------------------------------------------------|
| Response time                         | [s]              | < 3                                                                                                   |
| Software / programming                |                  |                                                                                                       |
| Adjustment of the switch point        |                  | potentiometer                                                                                         |
| Selection liquids / gases             |                  | wire bridge; on delivery: monitoring of liquids.;<br>for monitoring of gases: link terminals 23 / 24. |
| Switch point setting                  |                  | potentiometer                                                                                         |
| Temperature range                     | [°C]             | 40...120                                                                                              |
| Repeatability of the set switch point | [K]              | 4                                                                                                     |
| Operating conditions                  |                  |                                                                                                       |
| Ambient temperature                   | [°C]             | -20...60                                                                                              |
| Note on ambient temperature           |                  | in case of sufficient free space for convection cooling                                               |
| Protection                            |                  | IP 20                                                                                                 |
| Tests / approvals                     |                  |                                                                                                       |
| MTTF                                  | [years]          | 168                                                                                                   |
| Mechanical data                       |                  |                                                                                                       |
| Weight                                | [g]              | 248                                                                                                   |
| Housing                               |                  | housing for DIN rail mounting                                                                         |
| Dimensions                            | [mm]             | 100 x 25 x 103.5                                                                                      |
| Materials                             |                  | PBT                                                                                                   |
| Displays / operating elements         |                  |                                                                                                       |
| Display                               | function         | 11 x LED                                                                                              |
|                                       | switching status | LED, red                                                                                              |
|                                       | switching status | LED, red                                                                                              |
| 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.                                                                                                |



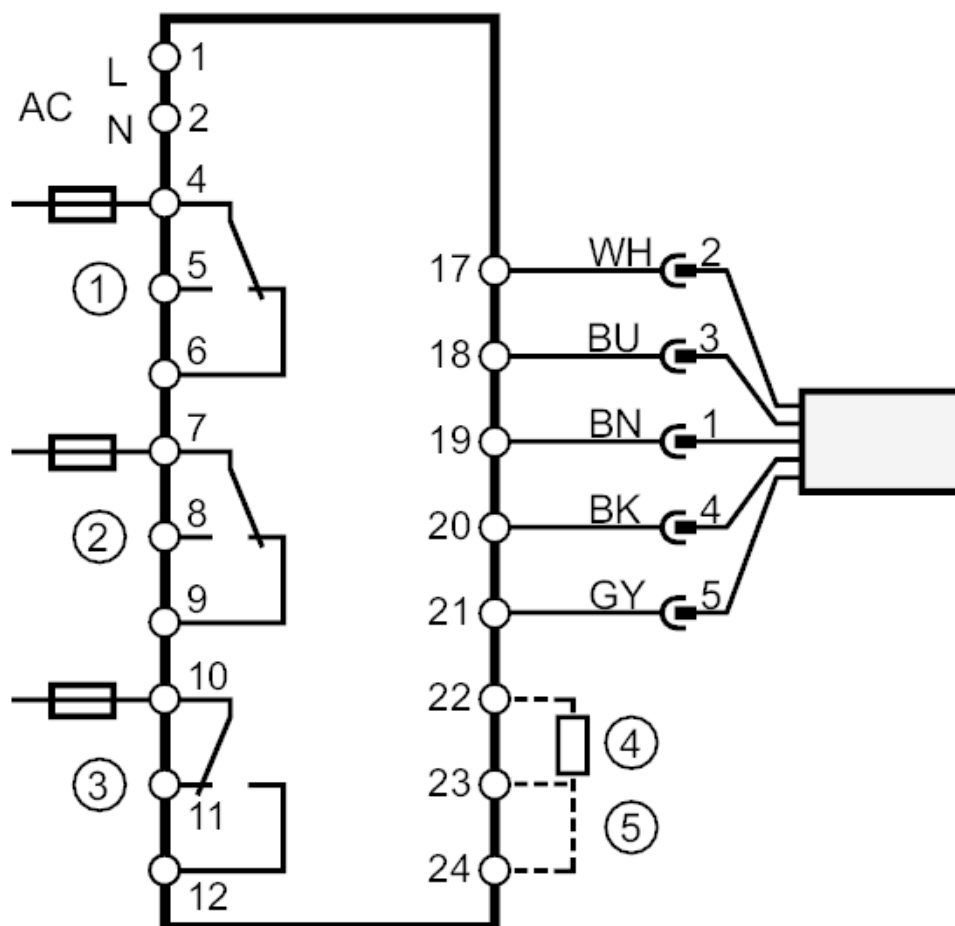
## Control monitor for flow sensors

VS3000/85...265VAC

### Electrical connection

COMBICON connector:

### Connection



- 1 = Flow monitoring
- 2 = Wire monitoring
- 3 = Temperature monitoring
- 4 = Power-on delay time
- 5 = selection liquid/gas
- Note miniature fuse to IEC60127-2 sheet 1  $\leq 5$  A fast acting

Core colours :

- BN = brown
- BU = blue
- BK = black
- WH = white
- GY = grey