

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



### Application

Application Flow monitoring; Temperature monitoring; Wire monitoring

### Electrical data

Operating voltage tolerance [%]	-20...10
Operating voltage [V]	24 DC
Current consumption [mA]	90
Protection class	III
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 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

VS3000/24VDC

Response times		
Response time	[s]	< 3
Software / programming		
Adjustment of the switch point		potentiometer
Selection liquids / gases		wire bridge; on delivery: monitoring of liquids.; for monitoring of gases: link terminals 23 / 24.
Switch point setting		potentiometer
Temperature range	[°C]	0...80
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]	263
Mechanical data		
Weight	[g]	233.2
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.



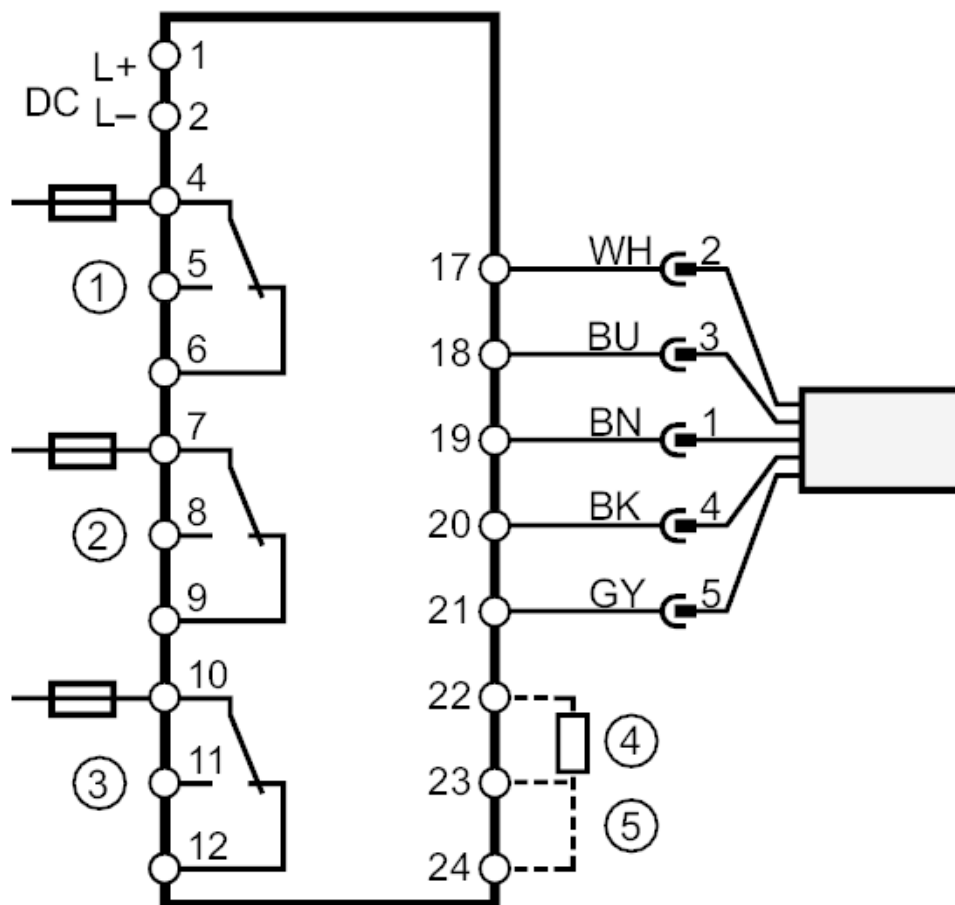
## Control monitor for flow sensors

VS3000/24VDC

### Electrical connection

COMBICON connector:

### Connection



- 1 = Flow monitoring
- 2 = Wire monitoring
- 3 = Temperature monitoring
- 4 = external resistor to set the power-on delay time
- 5 = link to monitor gaseous media
- 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