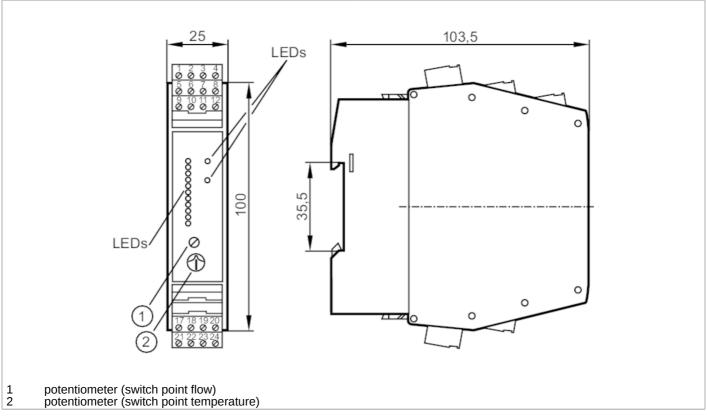
SN0152

Control monitor for flow sensors

VS3000/85...265VAC







Application			
Application		Flow monitoring; Temperature monitoring; Wire monitoring	
Electrical data			
Frequency AC	[Hz]	4763	
Operating voltage tolerance	[%]	-510	
Operating voltage	[V]	90240 AC	
Max. power consumption	[VA]	4	
Protection class		II	
Reverse polarity protection		no	
Power-on delay time	[s]	1080; (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	

SN0152

Control monitor for flow sensors





Response time [s] < 3	Overload protection		no	
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] 40120 Repeatability of the set switch point [K] 4 Operating conditions Ambient temperature [°C] -2060 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 Displays / operating elements 11 x LED Displays / operating status LED, red switching stat	Response times			
Adjustment of the switch point Selection liquids / gases Switch point setting Frequent and the switch point Selection liquids / gases Switch point setting Frequent and potentiometer Frequent and point Selection liquids / gases Switch point setting Frequent and potentiometer Frequent and point Selection liquids / gases: link terminals 23 / 24. Switch point setting Potentiometer Frequent and potentiometer Administration and potentiometer Frequent and point Selection liquids / gases: link terminals 23 / 24. ### Administration and potentiometer ### Administration and potention and potenti	Response time	[s]	< 3	
Selection liquids / gases Selection liquids / gases wire bridge; on delivery: monitoring of liquids.; for monitoring of gases: link terminals 23 / 24. Switch point setting Temperature range [°C] Repeatability of the set switch point Operating conditions Ambient temperature [°C] Tests / approvals MTTF [years] Mechanical data Weight [g] Housing Dimensions [mm] Materials Displays / operating elements Displays / operating elements Displays / operating elements Electrical connection Required protection Required protection Remarks Remarks Recommendation Check the safe functioning of the unit after a short circuit.	Software / programming			
Switch point setting For monitoring of gases: link terminals 23 / 24. Switch point setting Temperature range [°C] Repeatability of the set switch point Operating conditions Ambient temperature [°C] Note on ambient temperature Protection IP 20 Tests / approvals MTTF [years] Mechanical data Weight [g] Housing housing for DIN rail mounting Dimensions [mm] Materials PBT Displays / operating elements Display function switching status swit	•		potentiome	eter
Temperature range [°C] 40120 Repeatability of the set switch point 4 Coperating conditions Ambient temperature [°C] -2060 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 Displays / operating elements Displays / operating status LED, red switching status LED, red switching status LED, red Electrical connection Required protection miniature fuse to IEC60127-2 sheet 1; ≤ 5 A; fast acting Remarks Recommendation Check the safe functioning of the unit after a short circuit.	Selection liquids / gases			
Repeatability of the set switch point [K] 4 Operating conditions Ambient temperature [°C] -2060 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 Displays / operating elements In x LED Displays / operating elements LED, red Displays / operating elements LED, red Displays / operating elements LED, red Electrical connection miniature fuse to IEC60127-2 sheet 1; ≤ 5 A; fast acting Required protection miniature fuse to IEC60127-2 sheet 1; ≤ 5 A; fast acting Remarks Recommendation Check the safe functioning of the unit after a short circuit.	Switch point setting		potentiome	eter
Point Operating conditions	Temperature range	[°C]	40120)
Ambient temperature [°C] -2060 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.	-	[K]	4	
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 or DIN rail mounting Dimensions [mm] 100 x 25 x 103.5 Materials PBT Displays / operating elements Display function switching status LED, red switching status LED, red Electrical connection Required protection miniature fuse to IEC60127-2 sheet 1; ≤ 5 A; fast acting Remarks Recommendation Check the safe functioning of the unit after a short circuit.	Operating conditions			
Tests / approvals MTTF [years] 168 Mechanical data Weight [g] 248 Housing housing for DIN rail mounting 100 x 25 x 103.5 Dimensions [mm] 100 x 25 x 103.5 Materials PBT Displays / operating elements Displays / operating elements 11 x LED Display sitching status LED, red	Ambient temperature	[°C]	-2060	
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 Recommendation Check the safe functioning of the unit after a short circuit.	Note on ambient temperature		in case of sufficient free space	for convection cooling
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 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.	Protection		IP 20	
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 LED, red Electrical connection Required protection miniature fuse to IEC60127-2 sheet 1; ≤ 5 A; fast acting Remarks Recommendation Check the safe functioning of the unit after a short circuit.	Tests / approvals			
Weight [g] 248 Housing housing for DIN rail mounting Dimensions [mm] 100 x 25 x 103.5 Materials PBT Displays / operating elements Display function switching status 11 x LED switching status 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.	MTTF [y	ears]	168	
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.	Mechanical data			
$ \begin{array}{ l l l l } \hline \text{Dimensions} & & & & & & & \\ \hline \text{Materials} & & & & & & \\ \hline \text{Displays / operating elements} \\ \hline \text{Display Indication} & & & & & \\ \hline \text{Display Indication} & & & & & \\ \hline \text{Switching status} & & & & \\ \hline \text{Switching status} & & & & \\ \hline \text{Electrical connection} \\ \hline \text{Required protection} & & & & \\ \hline \text{Remarks} & & & \\ \hline \text{Remarks} & & & \\ \hline \text{Recommendation Check the safe functioning of the unit after a short circuit.} \\ \hline \hline \end{array} $	Weight	[g]	248	
Materials Displays / operating elements Display function switching status LED, red LED, red LED, red switching status LED, red Electrical connection miniature fuse to IEC60127-2 sheet 1; ≤ 5 A; fast acting Remarks Recommendation Check the safe functioning of the unit after a short circuit.	Housing		housing for DIN rail mounting	
Displays / operating elements Display function switching status 11 x LED switching status LED, red Electrical connection LED, red Required protection miniature fuse to IEC60127-2 sheet 1; ≤ 5 A; fast acting Remarks Recommendation Check the safe functioning of the unit after a short circuit.			housing for DIN rai	il mounting
Display function switching status LED, red switching status LED, red Electrical connection Required protection miniature fuse to IEC60127-2 sheet 1; \leq 5 A; fast acting Remarks Remarks Recommendation Check the safe functioning of the unit after a short circuit.	Dimensions	[mm]		_
switching status switching status 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.		[mm]	100 x 25 x 1	_
switching status LED, red Electrical connection Required protection miniature fuse to IEC60127-2 sheet 1; ≤ 5 A; fast acting Remarks Recommendation Check the safe functioning of the unit after a short circuit.	Materials		100 x 25 x 1	_
Electrical connection Required protection miniature fuse to IEC60127-2 sheet 1; ≤ 5 A; fast acting Remarks Recommendation Check the safe functioning of the unit after a short circuit.	Materials Displays / operating elements		100 x 25 x 1 PBT	03.5
Required protection miniature fuse to IEC60127-2 sheet 1; \leq 5 A; fast acting Remarks Recommendation Check the safe functioning of the unit after a short circuit.	Materials Displays / operating elements		100 x 25 x 1 PBT function	03.5 (LED
Remarks Remarks Recommendation Check the safe functioning of the unit after a short circuit.	Materials Displays / operating elements		function 11 x switching status	03.5 « LED D, red
Remarks Recommendation Check the safe functioning of the unit after a short circuit.	Materials Displays / operating elements Display		function 11 x switching status	03.5 « LED D, red
	Materials Displays / operating elements Display Electrical connection		function 11 x switching status LEC switching status LEC	03.5 C LED D, red D, red
Pack quantity 1 pcs.	Materials Displays / operating elements Display Electrical connection Required protection		function 11 x switching status LEC switching status LEC	03.5 C LED D, red D, red
P ***	Materials Displays / operating elements Display Electrical connection Required protection Remarks		function 11 x switching status LEC miniature fuse to IEC60127-2 sh	03.5 LED O, red O, red neet 1; ≤ 5 A; fast acting

SN0152

Control monitor for flow sensors

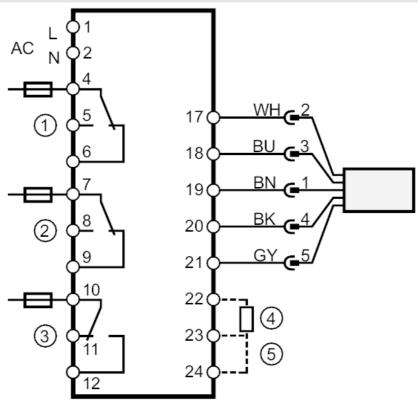
VS3000/85...265VAC



Electrical connection

COMBICON connector:

Connection



1 = Flow monitoring 2 = Wire monitoring 3 = Temperature monitoring 4 = Power-on delay time

Note miniature fuse to IEC60127-2 sheet $1 \le 5$ A fast acting

Core colours:

selection liquid/gas

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

5 =