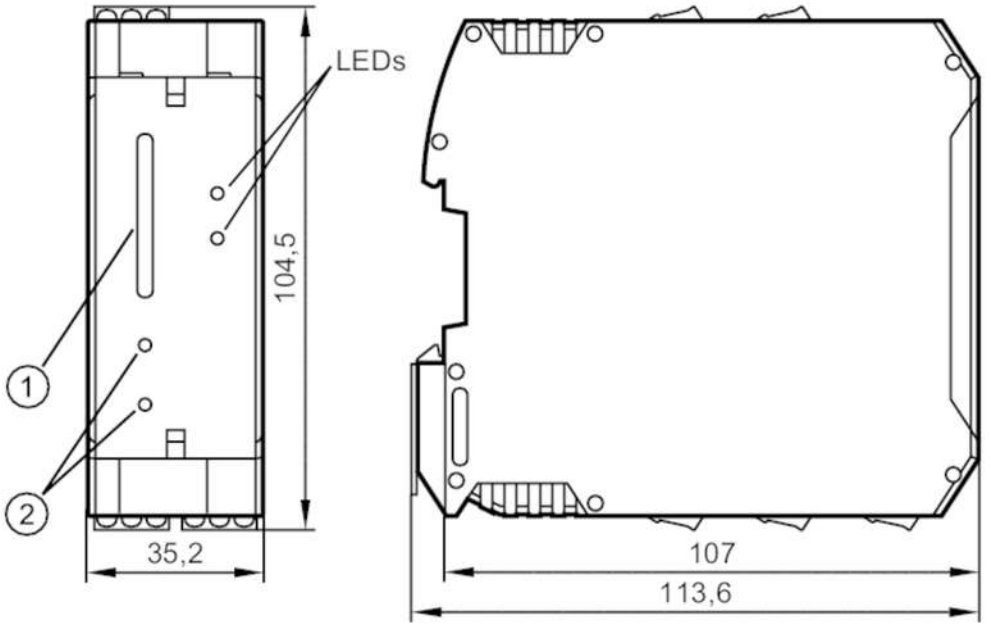
SR307A

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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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	[years]	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.	
		Recommendation Check the safe functioning of the unit after a short circuit.	
Pack quantity		1 pcs.	

SR307A

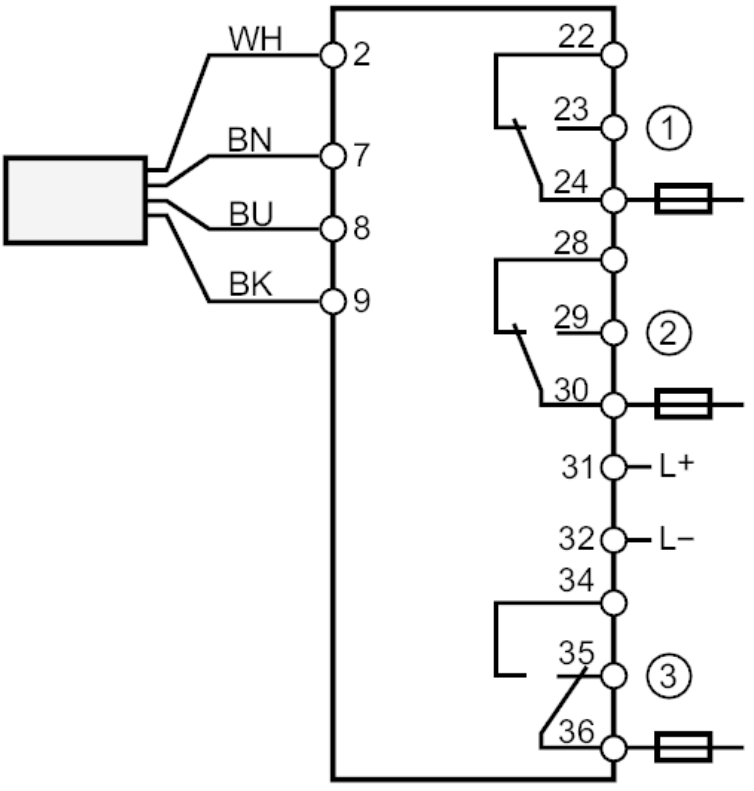
Control monitor for flow sensors

VS4000/24VDC/EXI/1G

Electrical connection

terminals: 15 x ...2.5 mm²

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 intrinsic safety	[Ex ia Ga] IIC	[Ex ia Ga] IIB	[Ex ib Gb] IIC	[Ex ib Gb] IIB
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