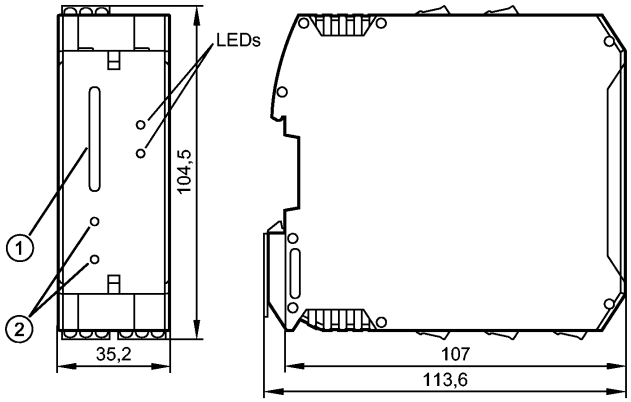
efector300

SR307A

VS4000/24VDC/EXI/1G

Evaluation systems



1: LED display
2: setting pushbuttons

Product characteristics		
Control monitor for flow sensors		
Housing for DIN rail mounting		
Connection: 1 sensor		
SPxxxA		
ATEX approval		
Group II, category 1G		
Application		
Application		flow, temperature and wire break monitoring
Electrical data		
Electrical design		DC
Operating voltage	[V]	24 DC
Voltage tolerance	[%]	± 15
Current consumption	[mA]	100
Reverse polarity protection		no
Outputs		
Output function		Relay
Switching function		
- Flow monitoring		relay energised when flow is present
- Temperature monitoring		relay is de-energised when temperature is exceeded
Contact rating		4 A (250 V AC cos phi > 0.7) ; 0.2 A (250 V DC); 4 A (24 V DC)
Short-circuit proof		no
Overload protection		no
Switching function fault monitoring		Relay de-energised in case of the following faults: wire break, reverse polarity or short circuit of the sensor cable, undervoltage, internal fault
Response times		
Power-on delay time	[s]	10
Software / programming		
Adjustment of the switch point		Programming buttons
Environment		
Ambient temperature	[°C]	-20...60
Storage temperature	[°C]	-25...80

SR307A

VS4000/24VDC/EXI/1G

Protection housing / terminals		IP 20 / IP 20

Tests / approvals

Approval		ZELM 11 ATEX 0466 IECEx ZLM 11.0004
Marking of the unit		Ex II (1) G [Ex ia Ga] IIC
MTTF	[Years]	124

Safety classification

Maximum values for control circuit

Designation		in protection rating intrinsic safety [Ex ia Ga] IIC, [Ex ia Ga] IIB, [Ex ib Gb] IIC, [Ex ib Gb] IIB
Voltage	[V]	Uo = 9.6
Current	[mA]	Io / Ie = 332
Power	[mW]	Po = 531

		in protection rating intrinsic safety			
		[Ex ia Ga] IIC	[Ex ia Ga] IIB	[Ex ib Gb] IIC	[Ex ib Gb] IIB
External inductance		0.7 mH	3 mH	0.7 mH	3 mH
External capacitance		3.15 µF	27.55 µF	3.15 µF	27.55 µF

Mechanical data

Housing materials		PA (polyamide)
Weight	[kg]	0.369

Displays / operating elements

Output status indication	LED	LED red: flashes in case of undervoltage and wire break, reverse polarity or short circuit of the sensor cable; lights permanently in case of an internal fault
Function display		LED display
Output status indication	LED	yellow

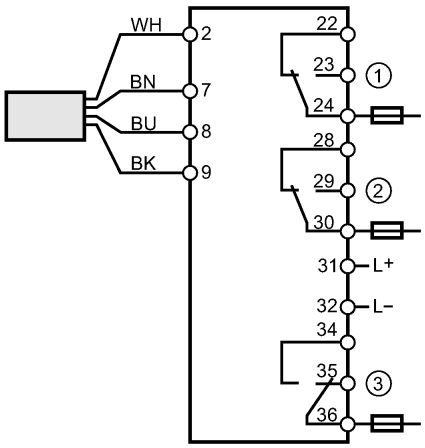
Electrical connection

Connection		15 terminals...2.5 mm²

Wiring

Core colours

BK black
BN brown
BU blue
WH white



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.

Remarks

Remarks	Please note: The control monitor must be mounted outside the hazardous area!

		Recommendation: check the unit for reliable function after a short circuit.
Pack quantity	[piece]	1