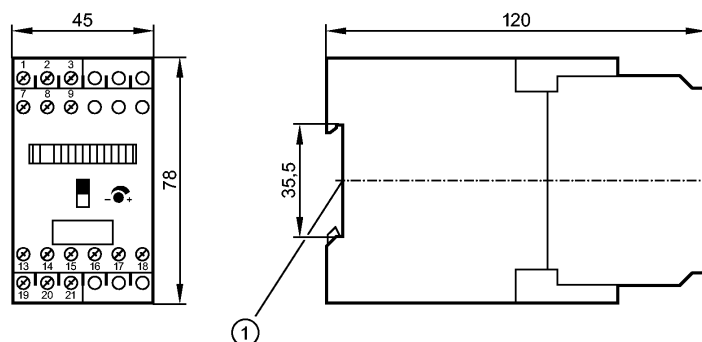


SR2301

VS2000/ 24VDC/EXI/1G

Evaluation systems



1: Mounting on DIN rail


Product characteristics

Control monitor for flow sensors

Housing for DIN rail mounting

Connection: 1 sensor

(SF...A)

ATEX approval

Group II, category (1) G

Application

Application: flow monitoring and wire breaking monitoring

Electrical data

Electrical design	DC
Operating voltage [V]	24 DC
Voltage tolerance [%]	± 10
Current consumption [mA]	125
Reverse polarity protection	no

Outputs

Output function	Relay
Switching function	
- Flow monitoring	relay energised when flow is present
- Wire break monitoring	relay de-energised in case of wire break
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

Reaction times

Power-on delay time [s]	30
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Software / programming

Adjustment of the switch point	potentiometer
Selection liquids / gases	with slide switch

Environment

Ambient temperature [°C]	-20...60
Protection housing / terminals	IP 40 / IP 20

Tests / approvals

Approval	PTB 01 ATEX 2075 IECEx PTB 07.0004
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SR2301

VS2000/ 24VDC/EXI/1G

Evaluation systems

Marking of the unit	 II (1) G [Ex ia Ga] IIC
MTTF [Years]	231

Safety classification

Maximum values for control circuit

Description	in protection rating intrinsic safety [Ex ia] IIC, [Ex ia] IIB, [Ex ib] IIC, [Ex ib] IIB			
Voltage [V]	U ₀ = 15.8			
Current [mA]	I ₀ = 84 / I _e = 38.5			
Power [mW]	P ₀ = 680			

	in protection rating intrinsic safety			
	[Ex ia] IIC	[Ex ia] IIB	[Ex ib] IIC	[Ex ib] IIB
External inductance	1 mH	1mH / 5 mH	1 mH	1mH / 5 mH
External capacitance	205 nF	1.7 µF / 935 nF	205 nF	1.7 µF / 935 nF

Mechanical data

Housing materials	plastics
Weight [kg]	0.388

Displays / operating elements

Function display	11 LED
Output status indication LED	red

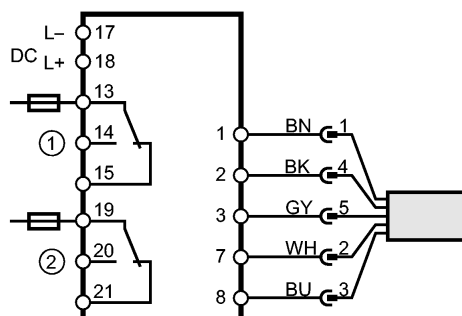
Electrical connection

Connection	15 terminals...2.5 mm ²
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Wiring

Core colors

BN	brown
BU	blue
BK	black
WH	white
GY	grey



1 Flow monitoring

2 Wire break 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.
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Pack quantity [piece]	1
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