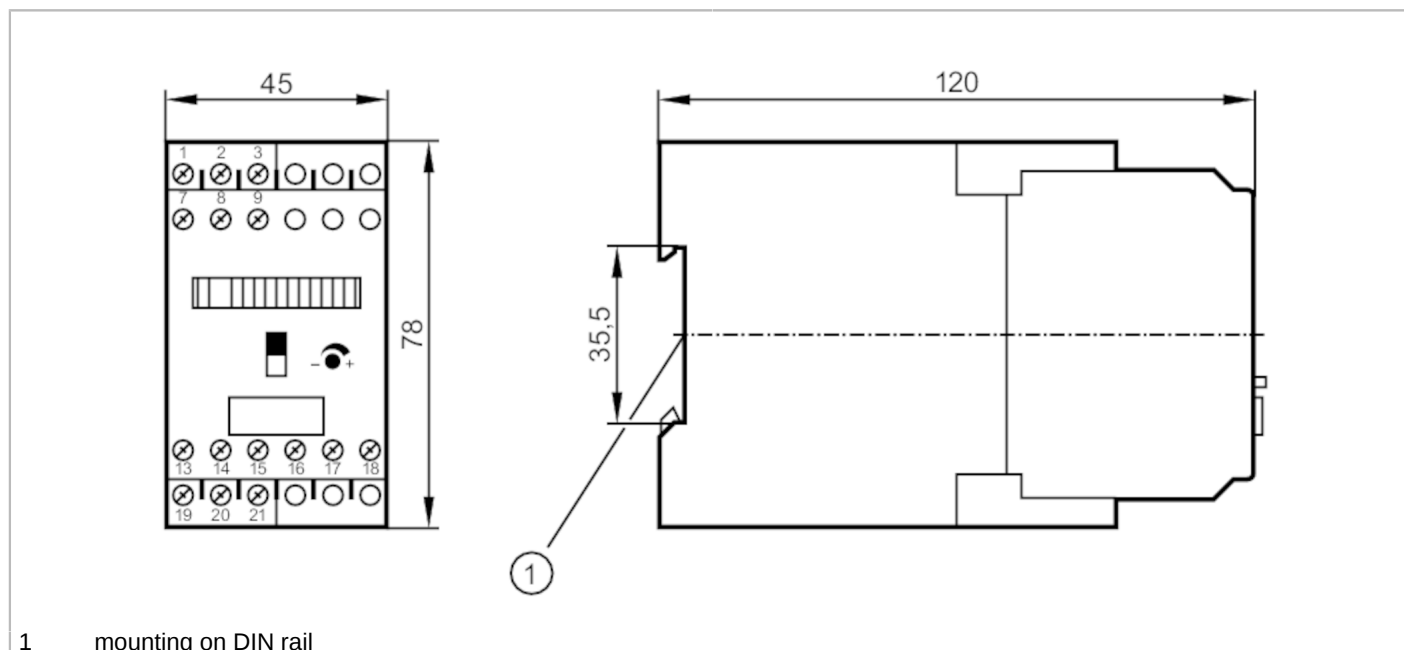




Control monitor for flow sensors

VS2000/230VAC/EXI/1G



Application

Application	Flow monitoring; Wire monitoring
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Electrical data

Frequency AC	[Hz]	47...63
Operating voltage tolerance	[%]	-10...10
Operating voltage	[V]	< 230 AC
Max. power consumption	[VA]	5
Reverse polarity protection		no
Power-on delay time	[s]	30
Number of channels		1

Outputs

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 wire break monitoring	relay de-energised in case of wire break
Short-circuit proof	no
Overload protection	no

Software / programming

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

Operating conditions

Ambient temperature	[°C]	-20...60
Storage temperature	[°C]	-20...85

SN2301



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Protection	IP 40	
Protection rating terminals	IP 20	
Tests / approvals		
Approval	PTB 01 ATEX 2075; IECEx PTB 07.0004; TIIS TC16593	
ATEX marking	 II (1) G [Ex ia Ga] IIC	
MTTF	[years]	248
Mechanical data		
Weight	[g]	504.5
Housing	housing for DIN rail mounting	
Dimensions	[mm]	78 x 45 x 120
Materials	plastics	
Displays / operating elements		
Display	function	11 x LED
	switching status	LED, red
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.	



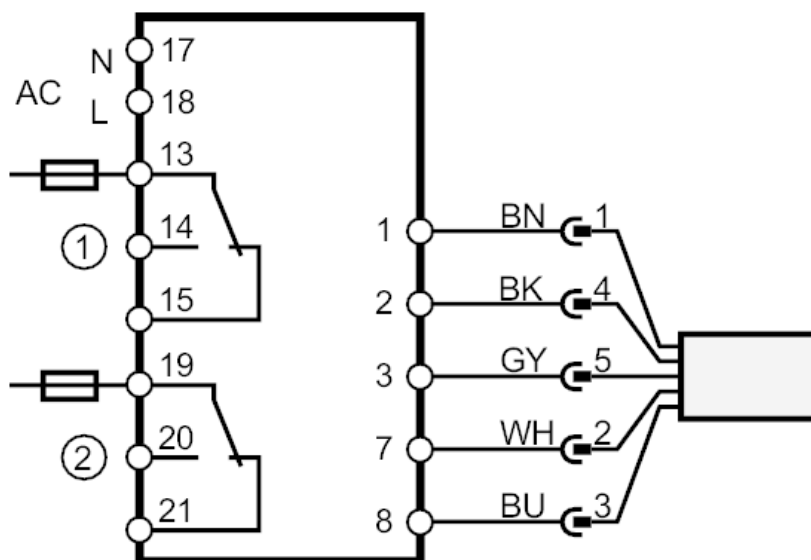
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Electrical connection

terminals: 15 x ...2.5 mm²

Connection



- 1 Flow monitoring
 2 Wire monitoring
 Note miniature fuse to IEC60127-2 sheet 1 ≤ 5 A fast acting
 Place the fuse outside the hazardous area.
 Core colours :
 BN = brown
 BU = blue
 BK = black
 WH = white
 GY = grey

Other data

Maximum values for control circuit

in protection rating intrinsic safety	[EEx ia] IIC	[EEx ia] IIB	[EEx ib] IIC	[EEx ib] IIB
Voltage [V]	15.8	15.8	15.8	15.8
Current [mA]	92	92	92	92
Power [mW]	680	680	680	680
External inductance [mH]	1	1	1	1
External capacitance [μF]	0.185	1.6	0.185	1.6