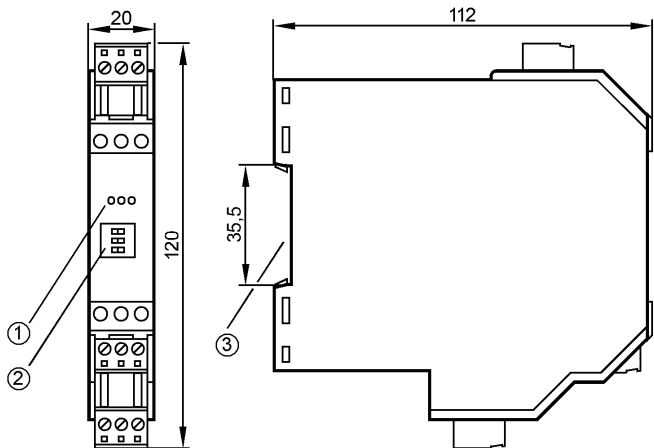


N0031A

Evaluation systems



- 1: LED
2: selector switch
3: mounting on DIN rail



Product characteristics	
Switching amplifier for Namur sensors according to 94/9/EG (ATEX)	
ATEX approval	
Group II, category (1) G D	
1-channel	
Relay output	
Programmable output function	
Short-circuit and wire monitoring	
Electrical data	
Electrical design	AC
Operating voltage [V]	230 AC (45...65 Hz)
Voltage tolerance [%]	-10 / +10
Power consumption [VA]	1.0
Outputs	
Output function	relay (1 changeover contact)
Switching frequency [Hz]	10
Contact rating	253 V AC / 2 A / cos phi > 0.7 // 40 V DC / 2 A; ohmic resistance

N0031A

Evaluation systems

Environment		
Ambient temperature	[°C]	-20...60
Protection		IP 20

Tests / approvals		
Approval		PTB 02 ATEX 2035
Marking of the unit		Ⓔ II (1) G D [EEx ia] IIC
MTTF	[Years]	458

Safety classification

Maximum values for control circuit				
		in protection rating intrinsic safety [EEx ia] IIC, [EEx ia] IIB, [EEx ib] IIC, [EEx ib] IIB		
Voltage	[V]	10.6		
Current	[mA]	19.1		
Power	[mW]	51		
		in protection rating intrinsic safety		
		[EEx ia] IIC	[EEx ia] IIB	[EEx ib] IIC
External inductance		97 mH	390 mH	97 mH
External capacitance		2.32 µF	16.2 µF	2.32 µF

Mechanical data

Weight	[kg]	0.187
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Displays / operating elements

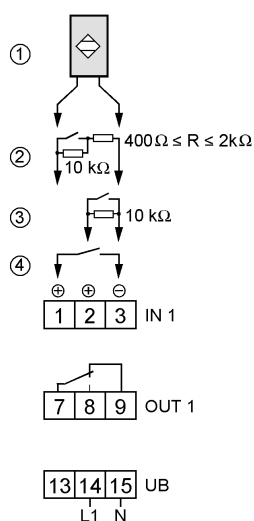
Operation	LED	green
Output status indication	LED	yellow
Function display	LED	red

Electrical connection

Connection	terminals up to 2.5 mm ²
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Wiring

- 1: switch S3 in position I
- 2: switch S3 in position I
- 3: switch S3 in position I;
without short-circuit monitoring
- 4: switch S3 in position II;
without short-circuit and wire monitoring



Remarks

Remarks	Please note: The control monitor must be mounted outside the hazardous area! Free terminals must not be used.
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Other data

Switch points	1.2...2.1 mA
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Evaluation systems

EMC

EN 50081-2 1993 / EN 50082-2 1995

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