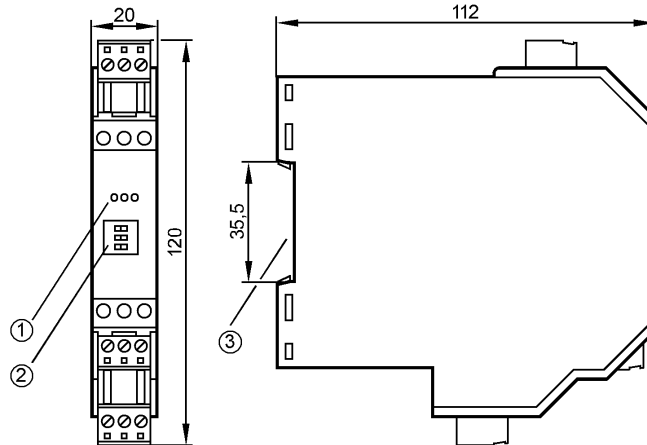


**N0031A**

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**

**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	[EEx ib] IIB
External inductance		97 mH	390 mH	97 mH	390 mH
External capacitance		2.32 μF	16.2 μF	2.32 μF	16.2 μF

**Mechanical data**

Weight	[kg]	0.187
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**Displays / operating elements**

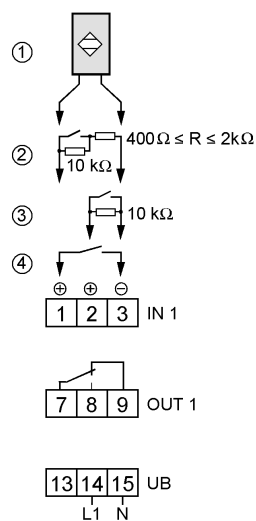
Operation	LED	green
Output status indication	LED	yellow
Function display	LED	red

**Electrical connection**

Connection	terminals up to 2.5 mm <sup>2</sup>
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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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**N0031A**

EMC

**Evaluation systems**

EN 50081-2 1993 / EN 50082-2 1995