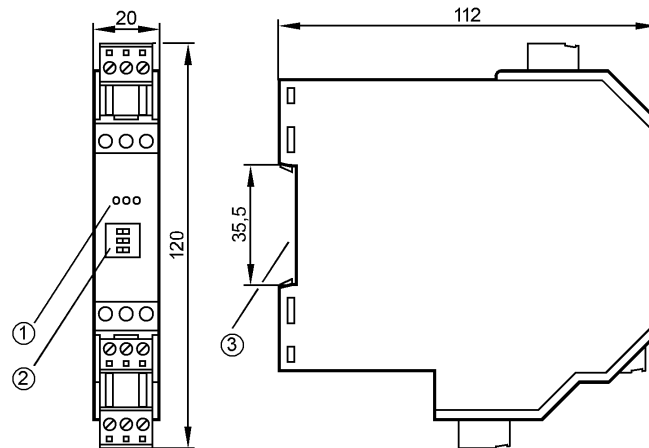


N0530A

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		DC
Operating voltage	[V]	24 DC
Voltage tolerance	[%]	-15 /+25
Current consumption	[mA]	< 23

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

N0530A

Environment

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

Tests / approvals

Approval		PTB 02 ATEX 2036
Marking of the unit		⊕ II (1) G D [EEx ia] IIC
MTTF	[Years]	326

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]	10.5			
Current	[mA]	13			
Power	[mW]	34			
		in protection rating intrinsic safety			
		[EEx ia] IIC	[EEx ia] IIB	[EEx ib] IIC	[EEx ib] IIB
External inductance		210 mH	840 mH	210 mH	840 mH
External capacitance		2.41 μF	16.8 μF	2.41 μF	16.8 μF

Mechanical data

Weight	[kg]	0.161
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Displays / operating elements

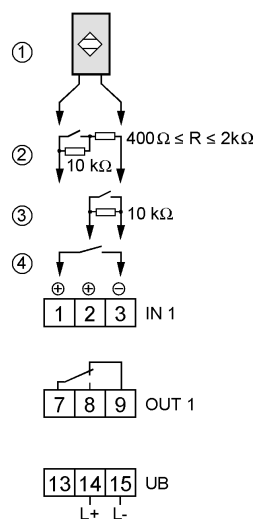
Operation	LED	green
Output status indication	LED	yellow
Function display	LED	red

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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N0530A

EMC

Evaluation systems

EN 50081-2 1993 / EN 50082-2 1995