

- 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]	115 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; resistive load
Switch points	1.2...2.1 mA

Environment

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

Tests / approvals

Approval	PTB 02 ATEX 2035
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Marking of the unit

	II (1) G [Ex ia] IIC II (1) D [Ex ia] IIIC
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EMC

	EN 50081-2 (1993)
	EN 61326-1 (2006)

MTTF [Years]

	458
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Safety classification

Maximum values for control circuit

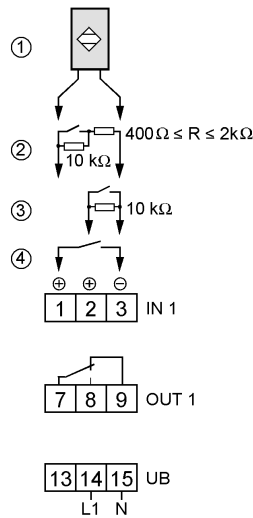
Description	in protection rating intrinsic safety [EEEx ia] IIC, [EEx ia] IIB, [EEx ib] IIC, [EEx ib] IIB
Voltage [V]	10.6
Current [mA]	19.1
Power [mW]	51

N0030A - Switching amplifier for Namur sensors according to 94/9/EG (ATEX) - eclass: 27279213 / 27-27-92-13

	in protection rating intrinsic safety			
	[EEx ia] IIC	[EEx ia] IIB	[EEx ib] IIC	[EEx ib] IIB
External inductance	97 mH	390 mH	97mH	390 mH
External capacitance	2.32 μF	16.2 μF	2.32 μF	16.2 μF
Mechanical data				
Lifetime	10E7 operating cycles			
Weight [kg]	0.19			
Displays / operating elements				
Power LED	green			
Output status indication LED	yellow			
Function display LED	red			
Electrical connection				
Connection	terminals up to 2.5 mm ²			

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

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

Pack quantity

[piece]

1