

- 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

2-channel

Optocoupler 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]	< 50

Outputs

Output function	2 outputs (optocoupler, bipolar, 100 mA, short-circuit protection)
Switching frequency [Hz]	5000
Voltage drop [V]	< 3
Switch points	1.2...2.1 mA

Environment

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

Tests / approvals

Approval	PTB 02 ATEX 2037 TIIS TC16049 IECEX PTB 06.0038
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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]	426

Safety classification

Maximum values for control circuit

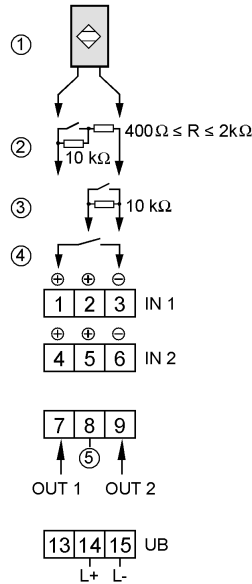
Description	in protection rating intrinsic safety [EEx ia] IIC, [EEx ia] IIB, [EEx ib] IIC, [EEx ib] IIB
Voltage [V]	10.5

N0532A - Switching amplifier for Namur sensors according to 94/9/EG (ATEX) - eclass: 27279213 / 27-27-92-13

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		200 mH	740 mH	200 mH	740 mH
External capacitance		2.4 μ F	16.8 μ F	2.4 μ F	16.8 μ F
Mechanical data					
Weight	[kg]	0.165			
Displays / operating elements					
Power	LED	green			
Output status indication	LED	2 x yellow			
Function display	LED	2 x 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
- 5: bipolar (+ and -)



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