

- 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

Transistor outputs

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 transistor outputs PNP (100 mA, short-circuit protection)	
Switching frequency	[Hz]	5000
Voltage drop	[V]	< 3.5
Switch points		1.2...2.1 mA

Environment

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

Tests / approvals

Approval		PTB 02 ATEX 2037 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		394

Safety classification

Maximum values for control circuit

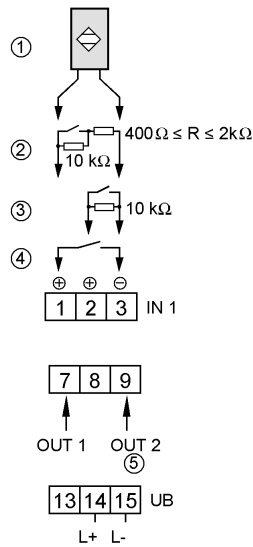
Description	in protection rating intrinsic safety [EEx ia] IIC, [EEx ia] IIB, [EEx ib] IIC, [EEx ib] IIB	
Voltage	[V]	10.5
Current	[mA]	13

N0531A - Switching amplifier for Namur sensors according to 94/9/EG (ATEX) - eclass: 27279213 / 27-27-92-13

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 μF	16.8 μF	2.4 μF	16.8 μF
Mechanical data					
Weight	[kg]	0.156			
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
- 4: switch S3 in position II (without short-circuit and wire monitoring)
- 5: Short-circuit and wire monitoring (switch S2 = II) or signal (switch S2 = I)



Remarks	
Remarks	Please note: The control monitor must be mounted outside the hazardous area! Free terminals must not be used.
Pack quantity	[piece] 1