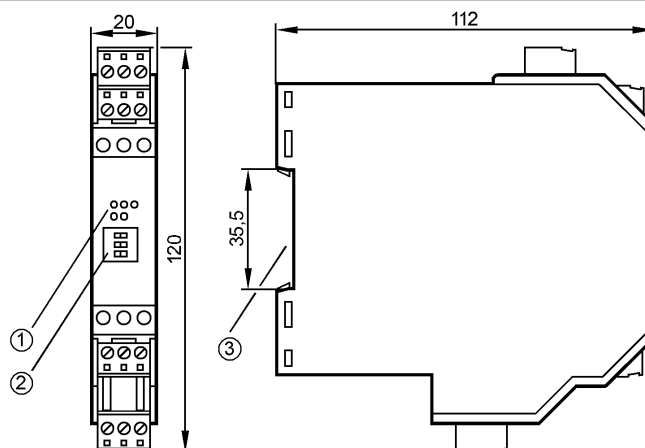


N0532A

NV1223/24VDC/OK/1D/1G

Evaluation systems ATEX



- 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
Marking of the unit		Ex II (1) G [Ex ia] IIC Ex II (1) D [Ex ia] IIIC
EMC		EN 50081-2 (1993) EN 61326-1 (2006)
MTTF	[Years]	426

Safety classification

N0532A

NV1223/24VDC/OK/1D/1G

Evaluation systems ATEX

Maximum values for control circuit

Designation	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	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]	0.165
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Displays / operating elements

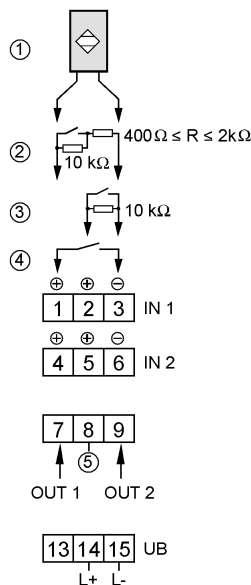
Operation LED	green
Output status indication LED	2 x yellow
Function display LED	2 x red

Electrical connection

Connection	terminals up to 2.5 mm²
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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
- 5: bipolar (+ and -)



Remarks

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