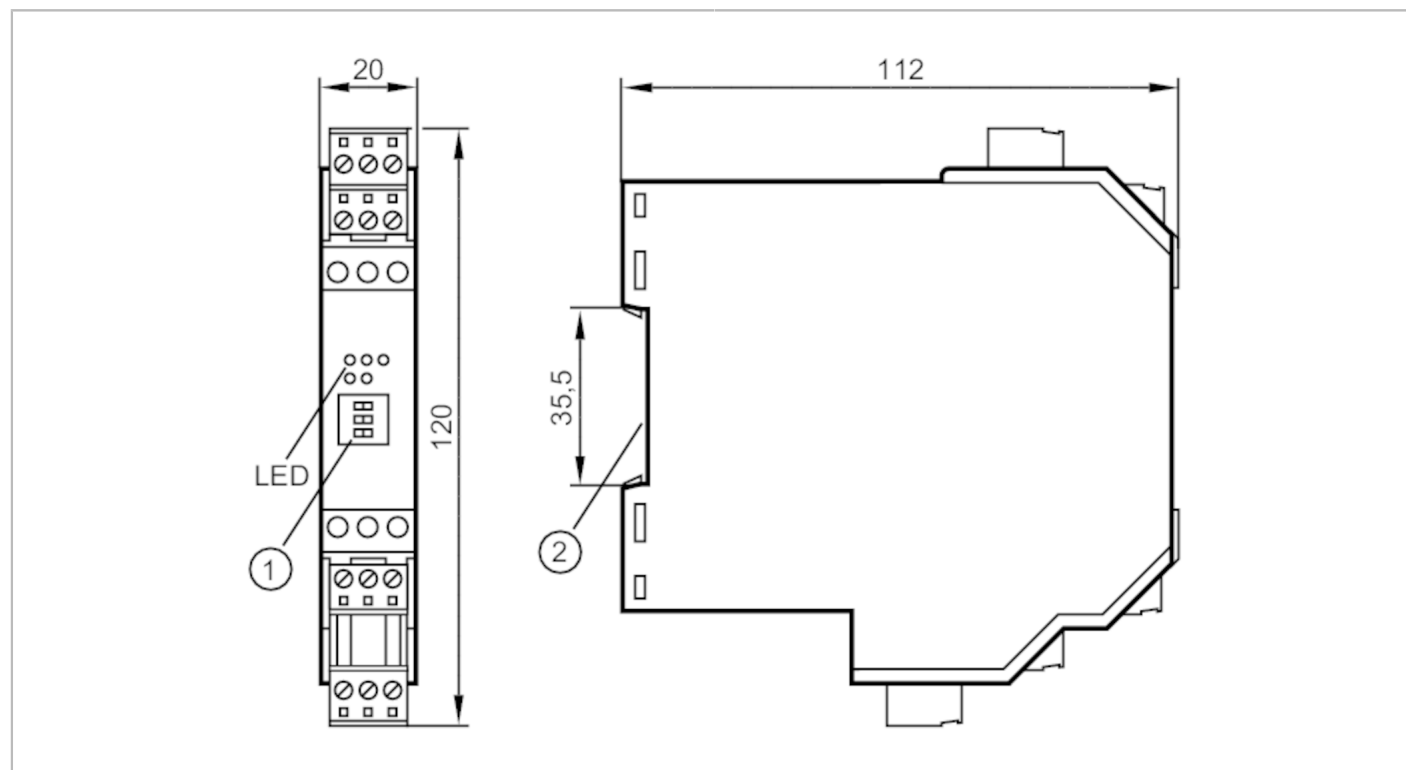


N0538A



Switching amplifiers for Namur sensors

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



Product characteristics

Number of inputs and outputs	Number of digital outputs: 2
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Application

Application	short-circuit monitoring; Wire monitoring
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Electrical data

Operating voltage tolerance	[%]	-15...25
Operating voltage	[V]	24 DC
Current consumption	[mA]	< 50
Number of channels		2

Inputs / outputs

Number of inputs and outputs	Number of digital outputs: 2
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Outputs

Electrical design	opto coupler; (bipolar; Voltage: max. 40 V DC)	
Number of digital outputs	2	
Max. voltage drop switching output DC [V]	3	
Max. current load per output [mA]	100	
Switching frequency DC [Hz]	5000	
Short-circuit proof	yes	

Operating conditions

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

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Tests / approvals		
Approval	FIDI 20 ATEX 0022X; IECEx FIDI 20.0003X	
ATEX marking	Ex II 3 (1) G Ex nA [ia Ga] IIC T4 Gc	
	Ex II (1) D [Ex ia Da] IIIC	
	Ex I (M1) [Ex ia Ma] I	
EMC	NE 21	(2012)
	EN 61326-3-2	(2008)
UL approval	File number UL	E521228
Mechanical data		
Weight	[g]	195.9
Displays / operating elements		
Display	switching status	2 x LED, yellow
	operation	LED, green
	function	2 x LED, red
Remarks		
Remarks	Caution The switching amplifier has to be mounted according to the requirements of the operating instructions	
	Free terminals must not be used.	
Pack quantity	1 pcs.	

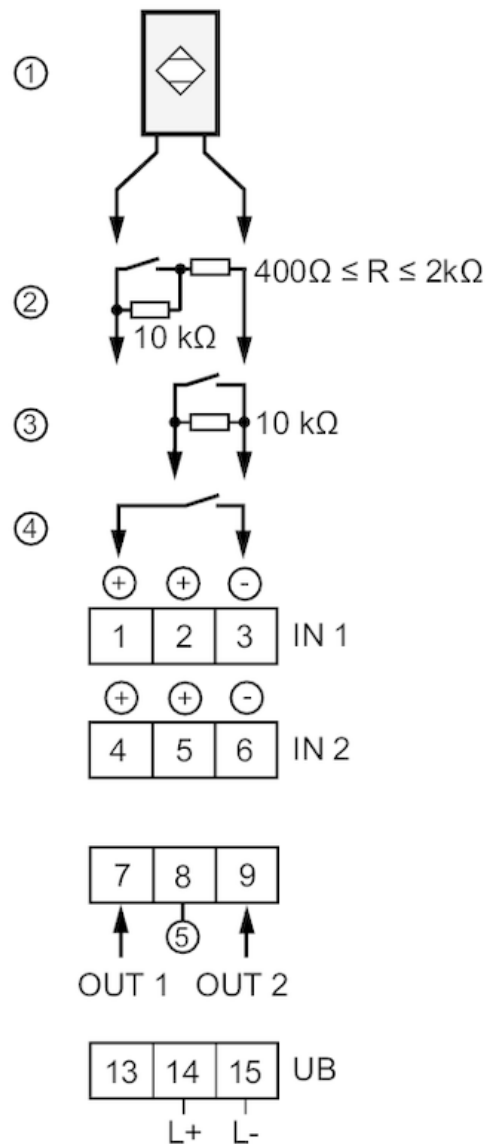
Switching amplifiers for Namur sensors

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

Electrical connection

terminals: ...2.5 mm²

Connection



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Switching amplifiers for Namur sensors

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

Other data

Maximum values for control circuit

in protection rating intrinsic safety	[Ex ia Ga] IIC	[Ex ia Ga] IIB	[Ex ia Ga] IIA	[Ex ia Ma] I
Voltage [V]	10.5	10.5	10.5	10.5
Current [mA]	17.1	17.1	17.1	17.1
Power [mW]	45	45	45	45
External inductance [mH]	121.5	486.3	972.7	1000
or Lo/Ro [mH/ Ω]	0.79	3.16	6.33	10.39
External capacitance [μ F]	2.41	16.8	75	95