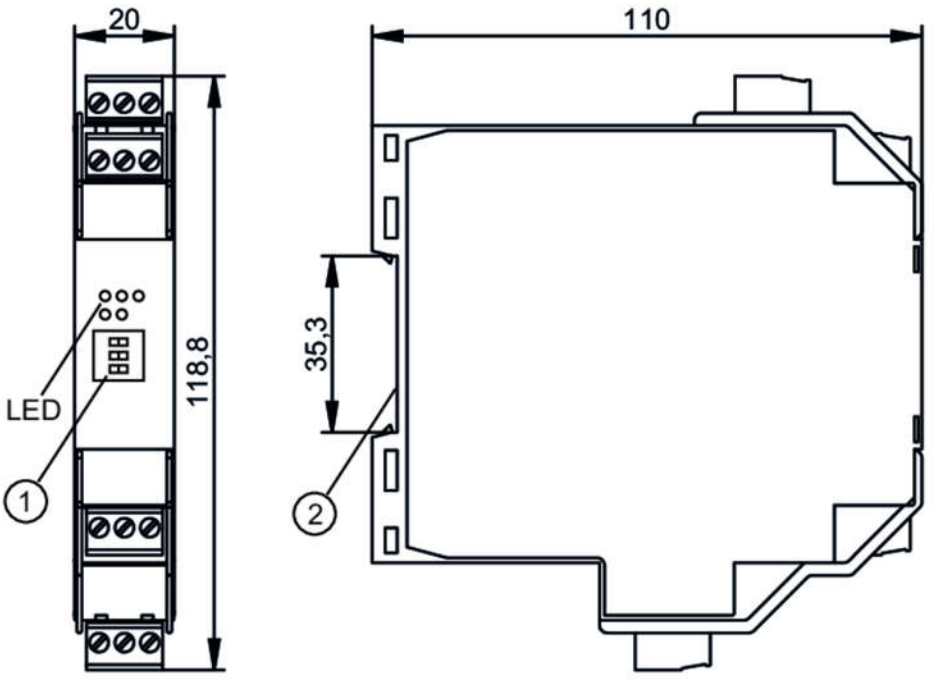
N0539A

Switching amplifiers for Namur sensors

NV1222/24VDC/TR/1D/1G



1 selector switch
2 mounting on DIN rail

Product characteristics		
Number of inputs and outputs		Number of digital outputs: 2
Application		
Application		short-circuit monitoring; Wire monitoring
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
Outputs		
Electrical design		PNP
Number of digital outputs		2
Max. voltage drop switching output DC	[V]	3.5
Max. current load per output	[mA]	100
Switching frequency DC	[Hz]	5000
Short-circuit proof		yes
Operating conditions		
Ambient temperature	[°C]	-20...60

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Protection		IP 20	
Tests / approvals			
Approval		FIDI 20 ATEX 0022X; IECEx FIDI 20.0003X	
ATEX marking		II 3 (1) G Ex nA [ia Ga] IIC T4 Gc	
		II (1) D [Ex ia Da] IIIC	
		I (M1) [Ex ia Ma] I	
EMC		NE 21	(2012)
		EN 61326-3-2	(2008)
MTTF	[years]	345	
Mechanical data			
Weight	[g]	198.4	
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.	

N0539A

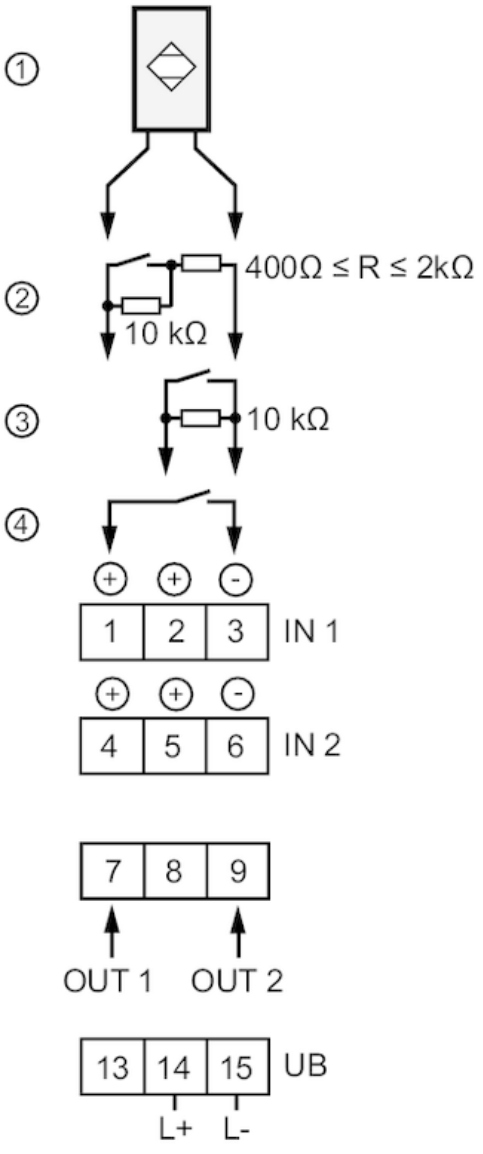
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Electrical connection

terminals: ...2.5 mm²

Connection



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Switching amplifiers for Namur sensors

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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 [µF]	2.41	16.8	75	95