



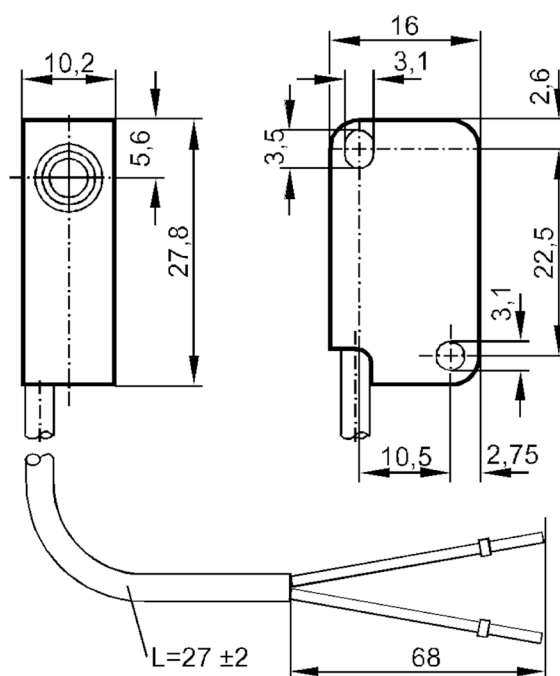
Induktiver NAMUR-Sensor

IS-22,5-N/0,095M/1D/1G/2G

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Alternative articles: NS5002

When selecting an alternative article and accessories please note that technical data may differ!



Product characteristics

Electrical design	NAMUR
Output function	normally closed
Sensing range [mm]	2.5
Housing	rectangular

Electrical data

Connection at circuit amplifier	yes
Switching amplifiers	connection to certified intrinsically safe circuits with the max. values: U = 15 V / I = 50 mA / P = 120 mW
Nominal voltage DC [V]	8.2; (1kΩ)
Supply voltage DC [V]	7.5...30; (when used outside the hazardous area)
Current consumption [mA]	< 1; (disabled; conductive: > 2,1)
Protection class	III

Outputs

Electrical design	NAMUR
Output function	normally closed
Permanent current rating of switching output DC [mA]	30; (when used outside the hazardous area)
Switching frequency DC [Hz]	800



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Monitoring range		
Sensing range	[mm]	2.5
Real sensing range Sr	[mm]	2.5 ± 10 %
Accuracy / deviations		
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.4 / copper: 0.3
Hysteresis	[% of Sr]	1...15
Switch-point drift	[% of Sr]	-10...10
Operating conditions		
Ambient temperature	[°C]	-20...70
Protection		IP 67
Tests / approvals		
Approval		PTB 02 ATEX 2217; BVS 04 ATEX E153; IECEx BVS 06.0003
ATEX marking		II 1D Ex ia IIC T90° C Da Ta: -20...70° C
		II 1G Ex ia IIB T6 Ga Ta: -20...70° C
		II 2G Ex ia IIC T6 Gb Ta: -20...70° C
EMC	EN 60947-5-6	
Shock/vibration resistance		30 g (11 ms) / 10-55 Hz (1 mm)
Safety classification		
Max. internal capacitance	[nF]	80
Max. internal inductance	[μH]	110
Mechanical data		
Weight	[g]	0.05
Housing		rectangular
Mounting		flush mountable
Material		PBT
Remarks		
Pack quantity		1 pcs.

NS5009



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Electrical connection

Cable: 0.095 m, PVC; 2 x 0.14 mm²

Connection



BN = Core colors :
brown
BU = blue