

KI5031



Capacitive NAMUR sensor

KI-2015-N/NI/6M/1D/1G



Product characteristics

Electrical design	NAMUR
Output function	normally closed
Sensing range [mm]	15
Housing	Threaded type
Dimensions [mm]	M30 x 1.5 / L = 81

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; (1k Ω)
Supply voltage DC [V]	7.5...15
Current consumption [mA]	< 1; (disabled; conductive: > 2,2)
Protection class	II
Measuring principle	capacitive

Outputs

Electrical design	NAMUR
Output function	normally closed
Switching frequency DC [Hz]	40
Short-circuit proof	yes

Monitoring range

Sensing range [mm]	15
Sensing range adjustable	yes
Factory setting sensing range [mm]	15
Real sensing range Sr [mm]	15 $\pm$ 10 %

Accuracy / deviations

Correction factor	glass: 0.4 / water: 1 / ceramics: 0.2 / PVC: 0.2
Hysteresis [% of Sr]	1...15
Switch-point drift [% of Sr]	-15...15

Operating conditions

Ambient temperature [°C]	-20...60
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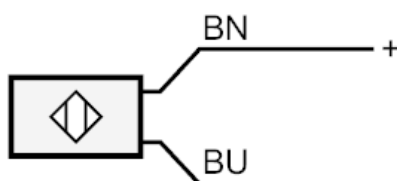
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Protection		IP 65	
Tests / approvals			
Approval		DMT 01 ATEX E 020 X; TIIS TC15627; IECEx BVS 06.0003X	
ATEX marking		 II 1D Ex ia IIIC T200 90°C Da	
		 II 1G Ex ia IIB T6 Ga	
EMC		EN 60947-5-2	
MTTF [years]		841	
Safety classification			
Max. internal capacitance [nF]		375.64	
Max. internal inductance [μH]		3	
Mechanical data			
Weight [g]		378.5	
Housing		Threaded type	
Mounting		non-flush mountable	
Dimensions [mm]		M30 x 1.5 / L = 81	
Thread designation		M30 x 1.5	
Material		PBT	
Displays / operating elements			
Display		Switching status	1 x LED, yellow
Remarks			
Pack quantity		1 pcs.	
Electrical connection			
Cable: 6 m, PVC; 2 x 0.5 mm²			
Connection			



BN = Core colors : brown
BU = blue