



Capacitive NAMUR sensor

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



Electrical data

Connection to switching amplifiers	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...15
Current consumption [mA]	< 1; (disabled; conductive: > 2,2)
Protection class	II

Outputs

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

Detection zone

Sensing range [mm]	15
Sensing range adjustable	yes
Factory setting sensing range [mm]	15
Real sensing range Sr [mm]	15 ± 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
Protection	IP 65

Tests / approvals

Approval	DMT 01 ATEX E 020; TIIS TC15627; IECEx BVS 06.0003
ATEX marking	II 1G Ex ia IIB T6 Ga
	II 1D Ex ia IIIC T90°C Da
EMC	IEC 60947-5-2
MTTF [years]	841

KI5030



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Safety classification

Max. internal capacitance	[nF]	375
Max. internal inductance	[μH]	1

Mechanical data

Weight	[g]	216.6
Housing		threaded type
Mounting		non-flush mountable
Dimensions	[mm]	M30 x 1.5 / L = 81
Thread designation		M30 x 1.5
Materials		PBT

Displays / operating elements

Display	switching status	1 x LED, yellow
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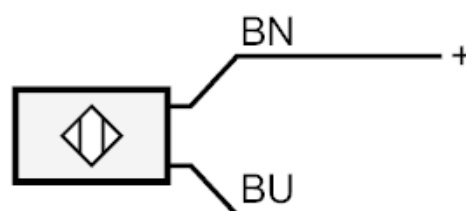
Remarks

Pack quantity	1 pcs.
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Electrical connection

Cable: 2 m, PVC; 2 x 0.5 mm²

Connection



Core colours :

BN = brown
BU = blue