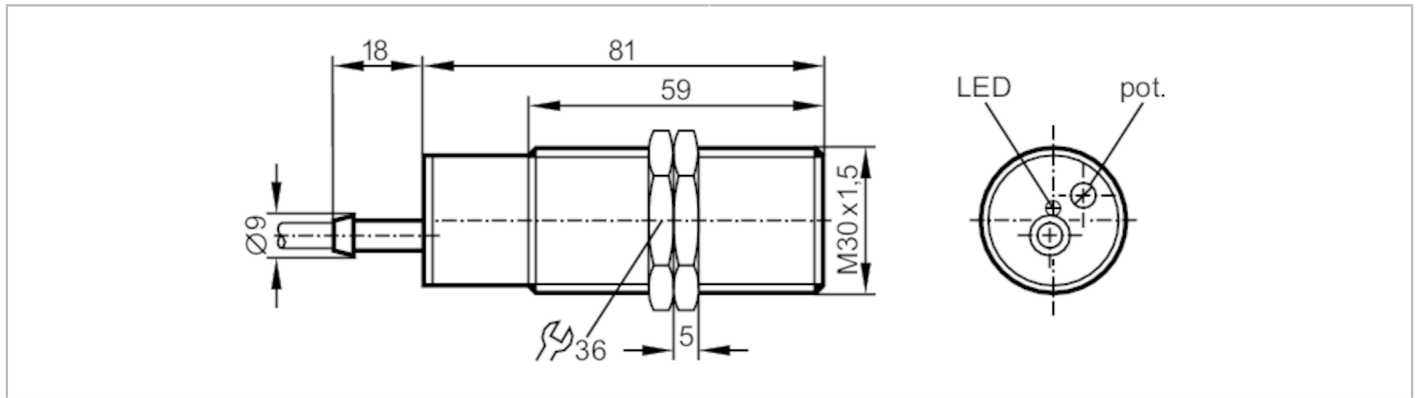


# KI5031



## Capacitive NAMUR sensor

KI-2015-N/NI/6M/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	EN 60947-5-2
MTTF [years]	841

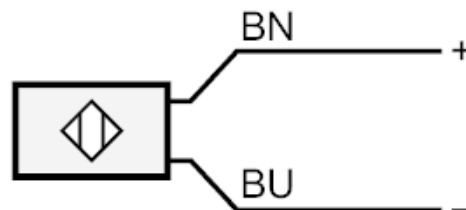
# KI5031



## Capacitive NAMUR sensor

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

Safety classification		
Max. internal capacitance	[nF]	375.64
Max. internal inductance	[μH]	3
Mechanical data		
Weight	[g]	378.2
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
Remarks		
Pack quantity		1 pcs.
Electrical connection		
Cable: 6 m, PVC; 2 x 0.5 mm <sup>2</sup>		
Connection		



Core colours :

BN = brown  
BU = blue