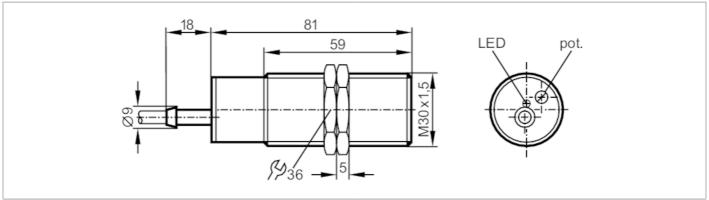
## KI5030

## **Capacitive NAMUR sensor**

KI-2015-N/NI/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 amplifi	er	yes
Switching amplifiers		connection to certified intrinsically safe circuits with the max. values: $U = 15 \text{ V/I} = 50 \text{ mA/P} = 120 \text{ mW}$
Nominal voltage DC	[V]	8.2; (1kΩ)
Supply voltage DC	[V]	7.515
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	ge [mm]	15
Real sensing range Sr	[mm]	15 ± 10 %
Accuracy / deviations		
		glass: 0.4 / water: 1 / ceramics: 0.2 / PVC: 0.2
Accuracy / deviations Correction factor	[% of Sr]	glass: 0.4 / water: 1 / ceramics: 0.2 / PVC: 0.2 115
Accuracy / deviations  Correction factor  Hysteresis	[% of Sr]	
Accuracy / deviations  Correction factor  Hysteresis	_	115

## KI5030

## **Capacitive NAMUR sensor**



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

Protection		IP 65
Tests / approvals		
Approval		DMT 01 ATEX E 020; TIIS TC15627; IECEx BVS 06.0003
ATEX marking		$\langle \overline{\xi_{\mathtt{X}}} \rangle$ II 1G Ex ia IIB T6 Ga
		⟨Ex⟩ II 1D Ex ia IIIC T90°C Da
EMC		IEC 60947-5-2
MTTF	[years]	841
Safety classification		
Max. internal capacitano	ce [nF]	375
Max. internal inductance	e [μH]	1
Mechanical data		
Weight	[g]	212.5
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 el	lements	
Display		Switching status 1 x LED, yellow
Remarks		
Pack quantity		1 pcs.
Electrical connection		
Cable: 2 m, PVC; 2 x 0.5	5 mm²	
Connection		
		BN +
		*
		BU
		<del></del> =
_		
BN = Core	e colors : vn	
BU = blue		