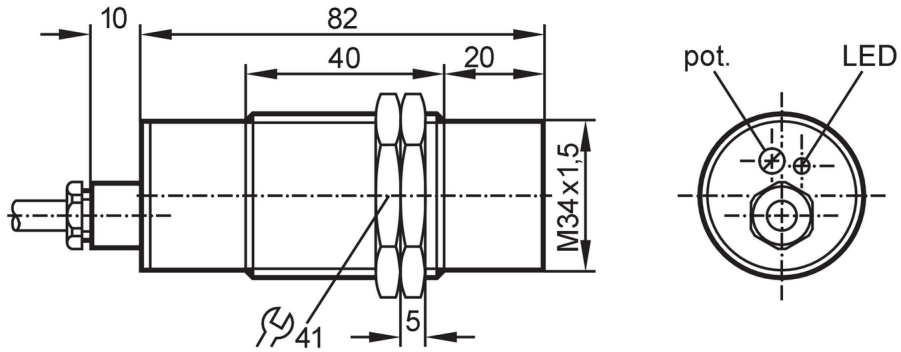


KX5001



Capacitive NAMUR sensor

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



Product characteristics

Electrical design	NAMUR
Output function	normally closed
Sensing range [mm]	15
Housing	Threaded type
Dimensions [mm]	M34 x 1.5 / L = 92

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...15
Current consumption [mA]	< 1; (disabled; conductive: > 2,2)
Protection class	I
Measuring principle	capacitive

Outputs

Electrical design	NAMUR
Output function	normally closed
Switching frequency DC [Hz]	40

Monitoring range

Sensing range	[mm]	15
Sensing range adjustable		yes
Factory setting sensing range	[mm]	15

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 X
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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]	838	

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

Mechanical data		
Weight [g]		421.5
Housing		Threaded type
Mounting		non-flush mountable
Dimensions [mm]		M34 x 1.5 / L = 92
Thread designation		M34 x 1.5
Material		housing: brass white bronze coated; sensing face: PTFE

Displays / operating elements		
Display	Switching status	1 x LED, yellow

Remarks		
Pack quantity		1 pcs.

Electrical connection		
Cable: 2 m, PVC; 3 x 0.5 mm²		
Connection		

