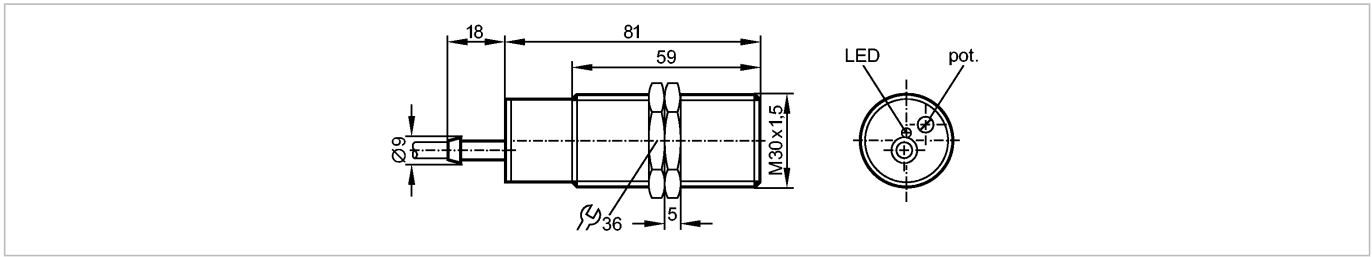


KI5030

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

Capacitive sensors



Product characteristics

Capacitive sensor
Plastic thread M30 x 1.5
Cable
ATEX approval
Group II, category 1D/1G
Sensing range 15 mm; adjustable; [nf] non-flush mountable

Electrical data

Electrical design	Connection to certified intrinsically safe circuits with the max. values U = 15 V / I = 50 mA / P = 120 mW	
Nominal voltage [V]		8.2 DC; (1kΩ)
Supply voltage [V]		7.5...15 DC
Current consumption [mA]		< 1 disabled; (> 2.2 mA enabled)
Protection class		II

Outputs

Output function	normally closed
Short-circuit proof	yes
Switching frequency [Hz]	40

Monitoring range

Sensing range [mm]	15, adjustable
Real sensing range (Sr) [mm]	15 ± 10 %



Accuracy / deviations

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

Environment

Ambient temperature [°C]	-20...60
Protection	IP 65

Tests / approvals

Approval	DMT 01 ATEX E 020 TIIS TC15627 IECEx BVS 06.0003	
Marking of the unit	 II 1G Ex ia IIB T6 Ga  II 1D Ex ia IIIC T90°C Da	
EMC	IEC 60947-5-2:	2007
MTTF [Years]		841

Safety classification

Internal capacitance [nF]	375
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KI5030

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

Capacitive sensors

Internal inductance	[μH]	1
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Mechanical data

Mounting	non-flush mountable	
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Housing materials	PBT	
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Weight	[kg]	0.217
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Displays / operating elements

Output status indication	LED	yellow
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Electrical connection

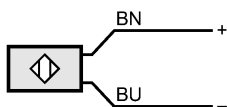
Connection	PVC cable / 2 m; 2 x 0.5 mm ²	
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Wiring

Core colors

BN brown

BU blue



Remarks

Pack quantity	[piece]	1
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