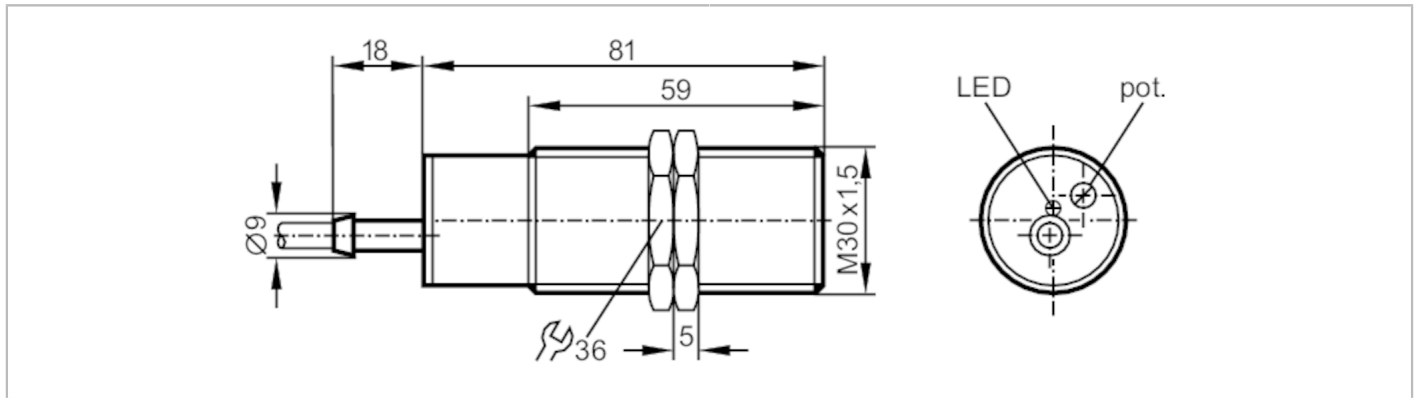


# KI5002



## Capacitive sensor

KI-3015-BPKG/NI



Electrical data		
Operating voltage	[V]	10...36 DC
Current consumption	[mA]	13; (24 V)
Protection class		II
Reverse polarity protection		yes
Outputs		
Electrical design		PNP
Output function		normally open
Max. voltage drop switching output DC	[V]	2.5
Permanent current rating of switching output DC	[mA]	250
Switching frequency DC	[Hz]	40
Short-circuit proof		yes
Overload protection		yes
Detection zone		
Sensing range	[mm]	15
Sensing range adjustable		yes
Factory setting sensing range	[mm]	15
Real sensing range $S_r$	[mm]	$15 \pm 10 \%$
Operating distance	[mm]	0...12.1
Accuracy / deviations		
Correction factor		glass: 0.4 / water: 1 / ceramics: 0.2 / PVC: 0.2
Hysteresis	[% of $S_r$ ]	1...15
Switch point drift	[% of $S_r$ ]	-15...15
Operating conditions		
Ambient temperature	[°C]	-25...70
Protection		IP 65
Increased immunity		yes; (increased immunity to conducted radio frequency interference)
Tests / approvals		
EMC		EN 60947-5-2
MTTF	[years]	778

# KI5002



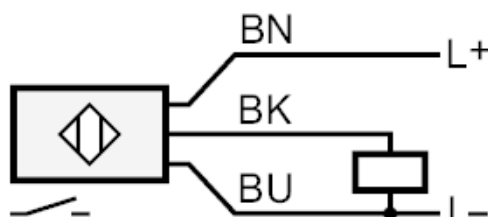
## Capacitive sensor

KI-3015-BPKG/NI

Mechanical data		
Weight	[g]	195
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
Accessories		
Accessories (supplied)		lock nuts: 2 screwdriver: 1
Remarks		
Pack quantity		1 pcs.

Electrical connection	
Cable: 2 m, PVC; 3 x 0.5 mm <sup>2</sup>	

### Connection



Core colours :

- BN = brown
- BU = blue
- BK = black