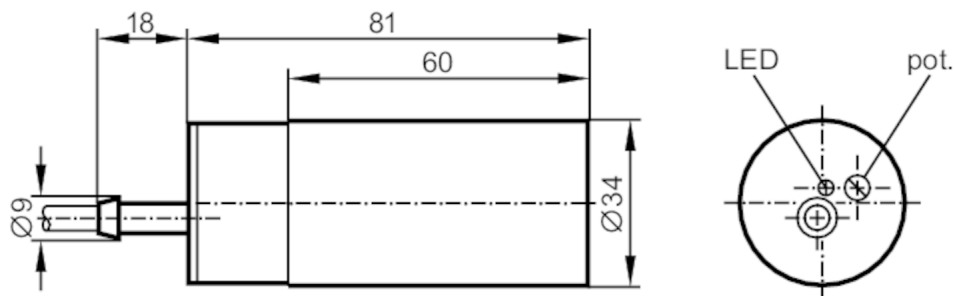


Capacitive sensor

KB-3020-ANKG/NI/6M

Article to be discontinued



Product characteristics

Electrical design	NPN
Output function	normally open
Sensing range [mm]	3...20
Housing	tubular
Dimensions [mm]	Ø 34 / L = 81

Electrical data

Operating voltage [V]	10...36 DC
Current consumption [mA]	13; (24 V)
Protection class	II
Reverse polarity protection	yes

Outputs

Electrical design	NPN
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 protection	yes
Type of short-circuit protection	yes (non-latching)
Overload protection	yes

Monitoring range

Sensing range [mm]	3...20
Sensing range adjustable	yes
Factory setting sensing range [mm]	20
Real sensing range S_r [mm]	$20 \pm 10 \%$
Operating distance [mm]	0...16.2

Accuracy / deviations

Correction factor	glass: 0.4 / water: 1 / ceramics: 0.2 / PVC: 0.2
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Capacitive sensor

KB-3020-ANKG/NI/6M

Hysteresis	[% of Sr]	1...15
Switch-point drift	[% of Sr]	-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]	739

Mechanical data		
Weight	[g]	429.8
Housing		tubular
Mounting		non-flush mountable
Dimensions	[mm]	Ø 34 / L = 81
Material		PBT

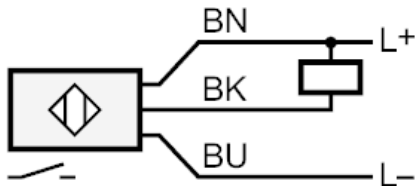
Displays / operating elements		
Display	Switching status	1 x LED, yellow

Accessories		
Items supplied		Mounting clamp: 1 screwdriver: 1

Remarks		
Pack quantity		1 pcs.

Electrical connection		
Cable: 6 m, PVC; 3 x 0.5 mm²		

Connection		
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	Core colors :
BN =	brown
BU =	blue
BK =	black