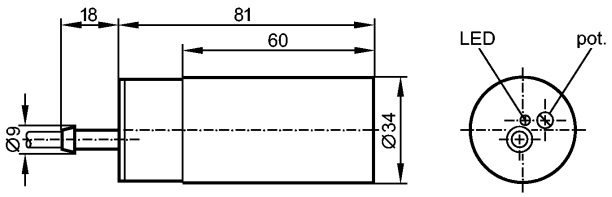
efectorISO

KB0025

KB-2020-ABOA/NI

Capacitive sensors



Made in Germany

Product characteristics		
Capacitive sensor		
Plastic housing Ø 34 mm		
Cable		
Increased immunity to conducted radio frequency interference		
Sensing range 20 mm; adjustable 3...20 mm; [nf] non-flush mountable		
Electrical data		
Electrical design		AC/DC
Operating voltage	[V]	20...250 AC/DC
Protection class		II
Reverse polarity protection		no
Outputs		
Output function		normally open
Voltage drop	[V]	< 10 AC / < 8 DC
Minimum load current	[mA]	5
Leakage current	[mA]	< 2.5 (250 V AC) / < 1.7 (110 V AC) / < 1.5 (24 V DC)
Current rating		
- Current rating (continuous)	[mA]	250 (...50 °C) / 200 (...70 °C)
- Current rating (peak)	[mA]	î: 1.5 A (20 ms / 0.5 Hz)
Short-circuit proof		no
Overload protection		no
Switching frequency	[Hz]	25 AC / 40 DC
Range		
Sensing range	[mm]	20, adjustable 3...20 mm
Real sensing range (Sr)	[mm]	20 ± 10 %
Operating distance	[mm]	0...16.2
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]	-25...70
Protection		IP 65
Tests / approvals		
EMC		IEC 60947-5-2: 2007
MTTF	[Years]	302
Mechanical data		

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Mounting		non-flush mountable
Housing materials		PBT
Weight	[kg]	0.25

Displays / operating elements

Output status indication	LED	yellow

Electrical connection

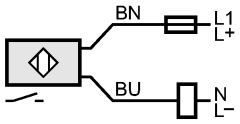
Connection	PVC cable / 2 m; 2 x 0.5 mm²

Wiring

Core colours

BN brown

BU blue



Note: miniature fuse to IEC60127-2 sheet 1,
≤ 2 A (fast acting)

Accessories

Accessories (included)	Mounting clamp; screwdriver; Head cap screw; spring washer

Remarks

Remarks	Recommendation: check the unit for reliable function after a short circuit.
Pack quantity [piece]	1