

replaced by: KI5301

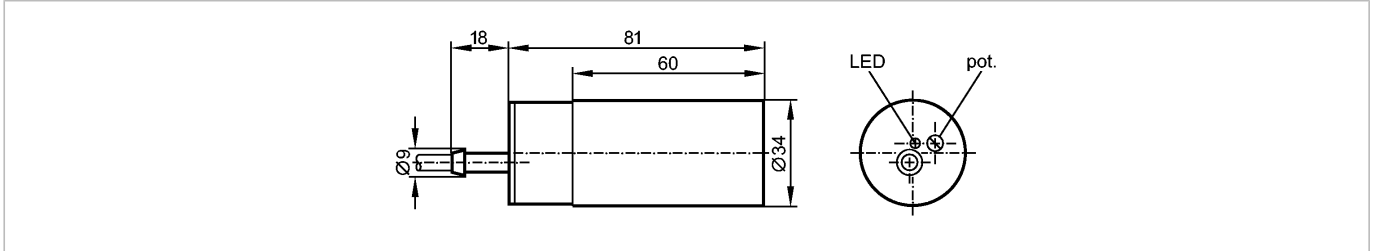
**efectoriso**

KB5002



KB-3020-APKG/NI

Capacitive sensors



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

DC PNP

Operating voltage [V]

10...36 DC

Current consumption [mA]

13 (24 V)

Protection class

II

Reverse polarity protection

yes

Outputs

Output function

normally closed

Voltage drop [V]

< 2.5

Current rating [mA]

250

Short-circuit proof

yes

Overload protection

yes

Switching frequency [Hz]

40

Monitoring 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]

778

Mechanical data

Mounting

non-flush mountable

Housing materials

PBT

Weight

[kg]

0.253

Displays / operating elements

Output status indication

LED

yellow

Electrical connection

Connection

PVC cable / 2 m; 3 x 0.5 mm<sup>2</sup>

**Wiring**

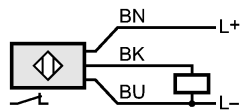
# KB5002 - Capacitive sensor - eclass: 27270102 / 27-27-01-02

## Core colors

BN brown

BU blue

BK black



## Accessories

Accessories (included)

Mounting clamp; screwdriver

## Remarks

Pack quantity

[piece]

1

ifm efector, inc. • 1100 Atwater Drive • Malvern • PA 19355 — We reserve the right to make technical alterations without prior notice. — US — KB5002 — 06.03.2003  
replaced by: KI5301