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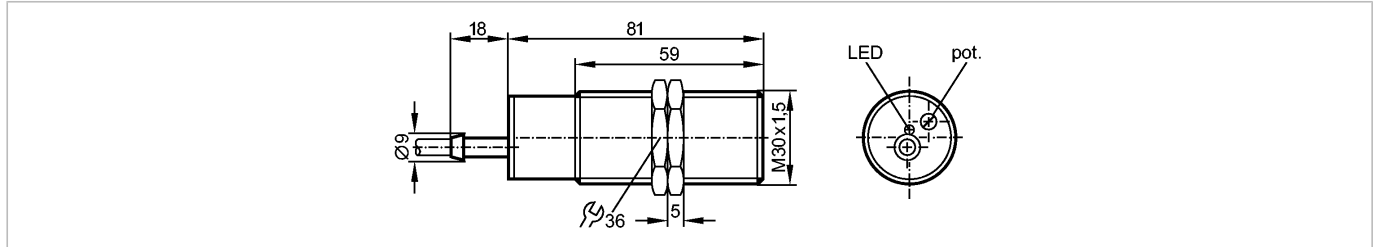
efectoriso

KI5037



KI-2015-N/NI/50M/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 $U = 15 \text{ V} / I = 50 \text{ mA} / P = 120 \text{ mW}$

Nominal voltage [V]

8.2 DC; (1k Ω)

Supply voltage [V]

7.5...15 DC

Current consumption [mA]

< 1 disabled; (> 2.2 mA enabled)

Protection class

II

Outputs

Output function

normally closed

Switching frequency [Hz]

40

Monitoring range

Sensing range [mm]

15, adjustable

Real sensing range (Sr) [mm]

15 \pm 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

Marking of the unit

Ex II 1G Ex ia IIB T6 Ga

Ex II 1D Ex ia IIIC T90°C Da

EMC

IEC 60947-5-2: 2007

MTTF [Years]

841

Safety classification

Internal capacitance [nF]

382.64

Internal inductance [μ H]

25

Mechanical data

Mounting

non-flush mountable

Housing materials

PBT

Weight [kg]

2.145

Displays / operating elements

Output status indication LED

yellow

KI5037 - Capacitive sensor - eclass: 27270102 / 27-27-01-02

Electrical connection

Connection

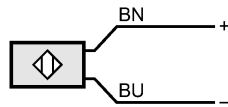
PVC cable / 50 m; 2 x 0.5 mm²

Wiring

Core colors

BN brown

BU blue



Remarks

Pack quantity

[piece]

1

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