

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

Short-circuit proof

yes

Switching frequency [Hz]

40

Monitoring range

Sensing range [mm]

15, adjustable

Real sensing range (Sr) [mm]

15 \pm 10 %

Accuracy / deviations

water = 1 / glass approx. 0.4 / ceramics approx. 0.2 / PVC approx. 0.2

Correction factors

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

TIIS TC15627

IECEX BVS 06.0003

Marking of the unit

II 1G Ex ia IIB T6 Ga

II 1D Ex ia IIIC T90°C Da

EMC

IEC 60947-5-2: 1997 + A1: 1999 + A2: 2003

MTTF [Years]

841

Safety classification

Internal capacitance [nF]

375.64

Internal inductance [μ H]

3

Mechanical data

Mounting

non-flush mountable

Housing materials

PBT

Weight [kg]

0.378

Displays / operating elements

KI5031 - Capacitive sensor - eclass: 27270102 / 27-27-01-02

Output status indication LED | yellow

Electrical connection

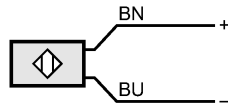
Connection | PVC cable / 6 m; 2 x 0.5 mm²

Wiring

Core colors

BN brown

BU blue



Remarks

Pack quantity [piece] | 1