

1: LED 4 x 90°
2: potentiometer



Product characteristics

Capacitive sensor

Metal thread M12 x 1

Quick disconnect

Increased immunity to conducted radio frequency interference

Sensing range 8 mm; adjustable 3...12 mm; [nf] non-flush mountable

Application

Application For position detection of dry bulk materials and liquids

Electrical data

Electrical design

DC PNP

Operating voltage [V] 10...36 DC; cULus - Class 2 source required

Current consumption [mA] < 12

Protection class III

Reverse polarity protection yes

Outputs

Output function normally open

Voltage drop [V] < 2.5

Current rating [mA] 100

Short-circuit proof yes

Overload protection yes

Switching frequency [Hz] 50

Monitoring range

Sensing range [mm] 8, adjustable 3...12 mm

Real sensing range (Sr) [mm] 8 ± 10 %

Accuracy / deviations

Correction factors water = 1 / glass approx. 0.6 / ceramics approx. 0.5 / PVC approx. 0.4

Hysteresis [% of Sr] 1...15

Switch-point drift [% of Sr] -20...20

Environment

Ambient temperature [°C] -25...70

Protection IP 65

Tests / approvals

EMC IEC 60947-5-2: 2007

MTTF [Years] 634

Mechanical data

Mounting non-flush mountable

Housing materials stainless steel 316L / 1.4404; PEEK (polyether ether ketone)

Weight [kg] 0.048

Displays / operating elements

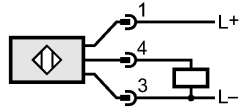
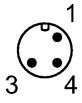
Output status indication LED yellow

Electrical connection

Connection M12 connector

Wiring

KF5002 - Capacitive sensor - eclass: 27270102 / 27-27-01-02



Accessories

Accessories (included)

2 lock nuts

Remarks

Pack quantity

[piece]

1

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