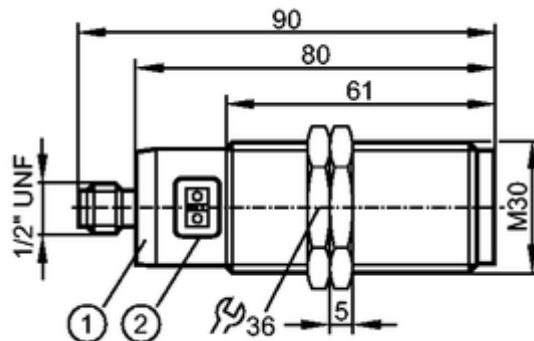


KI0054

KI-2200NFBOP2T/LS100

Capacitive sensors



1: LED ring

2: Programming buttons

**Product characteristics**

Capacitive sensor

Plastic thread M30 x 1.5

Connector

Teach function

Electronic lock

Sensing range 20 mm; 5...40 mm adjustable via programming buttons; [nf] non-flush mountable

Application

Application

For dry bulk material and liquids. Optimised for media with a dielectric constant < 20 (e.g. oils, plastic granulates).

Electrical data

Electrical design

AC/DC

Operating voltage [V]

20...250 DC / 30...250 AC (47...63 Hz)

Protection class

II

Reverse polarity protection

yes

Outputs

Output function

normally open / closed programmable

Voltage drop [V]

< 10 AC / < 8 DC

Leakage current [mA]

< 2.5 (250 V AC) / < 1.7 (110 V AC) / < 1.5 (24 V DC)

Current rating

- Current rating (continuous) [mA]

100; 150 (...40 °C)

- Current rating (peak) [mA]

î: 1.0 A (20 ms / 0.5 Hz)

Short-circuit proof

no

Overload protection

no

Switching frequency [Hz]

10

Range

Sensing range [mm]

20, 5...40 mm adjustable via programming buttons

Real sensing range (Sr) [mm]

20 ± 10 %

Accuracy / deviations

Correction factors	water = 1 / glass approx. 0.3 / ceramics approx. 0.2 / PVC approx. 0.1
Hysteresis [% of Sr]	1...15
Switch-point drift [% of Sr]	-20...20

Environment

Ambient temperature [°C]	-25...80, temperature of the sensing face -25...110 °C
Medium temperature [°C]	110
Protection	IP 65 / IP 67

Tests / approvals

EMC	IEC 60947-5-2:	2007
MTTF [Years]	321	

Mechanical data

Mounting	non-flush mountable
Housing materials	housing: PBT; connector: PC; buttons: TPE-U
Weight [kg]	0.124

Displays / operating elements

Output status indication LED	yellow (LED ring and connector light translucently)
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Electrical connection

Connection	1/2" UNF-Connector
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Wiring

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

Accessories

Accessories (included)	2 lock nuts
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Remarks

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

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