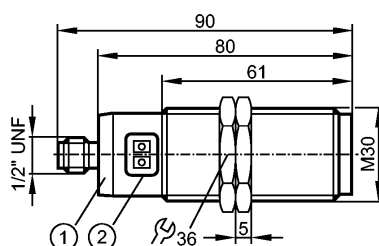


KI0054

KI-2200NFBOAP2T/LS100

Capacitive sensors


- 1: LED ring
2: Programming buttons



Made in Germany

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).
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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]	150 (40 °C) / 100 (80 °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
Target medium temperature [°C]	110

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KI-2200NFBOAP2T/LS100

Capacitive sensors

Protection	IP 65 / IP 67
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Tests / approvals

EMC	IEC 60947-5-2:	1997 + A1: 1999 + A2: 2003
MTTF	[Years]	321

Mechanical data

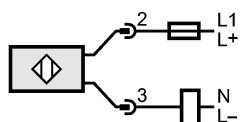
Mounting	non-flush mountable
Housing materials	housing: PBT; connector: PC; buttons: TPE-U
Weight	[kg] 0.124

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