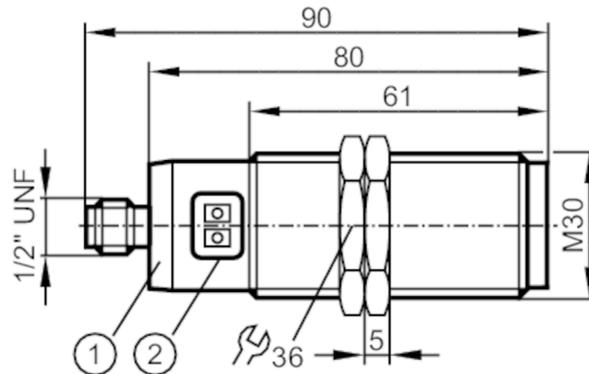


# KI0054



## Capacitive sensor

KI-2200NFBOAP2T/LS100



- 1 LED ring
- 2 programming buttons



### Product characteristics

Output function		normally open / normally closed; (selectable)
Sensing range	[mm]	5...40; (programming buttons)
Housing		threaded type
Dimensions	[mm]	M30 x 1.5 / L = 90

### Application

Installation		detection through non-metallic container wall or on bypass pipes
Media		dry bulk material; liquids

### Electrical data

Frequency AC	[Hz]	47...63
Operating voltage	[V]	30...250 AC / 20...250 DC
Protection class		II
Reverse polarity protection		yes
Measuring principle		capacitive

### Outputs

Output function		normally open / normally closed; (selectable)
Max. voltage drop switching output DC	[V]	8
Max. voltage drop switching output AC	[V]	10
Max. leakage current	[mA]	2.5 (250 V AC) / 1.7 (110 V AC) / 1.5 (24 V DC)
Permanent current rating of switching output AC	[mA]	100; (150 (...40 °C))
Permanent current rating of switching output DC	[mA]	100; (150 (...40 °C))
Short-time current rating of switching output	[mA]	1000; (20 ms / 0,5 Hz)
Switching frequency AC	[Hz]	10
Switching frequency DC	[Hz]	10
Short-circuit proof		no

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Overload protection		no
<b>Detection zone</b>		
Sensing range [mm]		5...40; (programming buttons)
Sensing range adjustable		yes
Factory setting sensing range [mm]		20
Real sensing range Sr [mm]		20 ± 10 %
<b>Accuracy / deviations</b>		
Correction factor		glass: 0.3 / water: 1 / ceramics: 0.2 / PVC: 0.1
Hysteresis [% of Sr]		1...15
Switch point drift [% of Sr]		-20...20
<b>Operating conditions</b>		
Ambient temperature [°C]		-25...80
Note on ambient temperature		temperature of the sensing face: -25...110 °C
Protection		IP 65; IP 67
<b>Tests / approvals</b>		
EMC	EN 60947-5-2	
MTTF [years]		321
<b>Mechanical data</b>		
Weight [g]		89.1
Housing		threaded type
Mounting		non-flush mountable
Dimensions [mm]		M30 x 1.5 / L = 90
Thread designation		M30 x 1.5
Materials		housing: PBT; pushbuttons: TPE-U; LED window: PC
<b>Displays / operating elements</b>		
Display	switching status	1 x LED ring, yellow plug lights translucently
Teach function		yes
Electronic lock		yes
<b>Electrical connection</b>		
Required protection		miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting
<b>Accessories</b>		
Items supplied		lock nuts: 2
<b>Remarks</b>		
Remarks		Note: Check the safe functioning of the unit after a short circuit.
Pack quantity		1 pcs.

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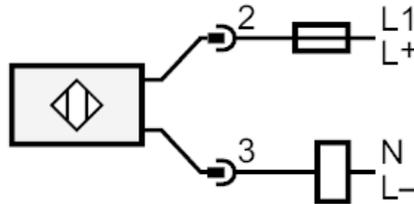


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### Electrical connection - plug

Connector: 1 x 1/2"; coding: C



Note miniature fuse to IEC60127-2 sheet 1  $\leq 2$  A fast acting