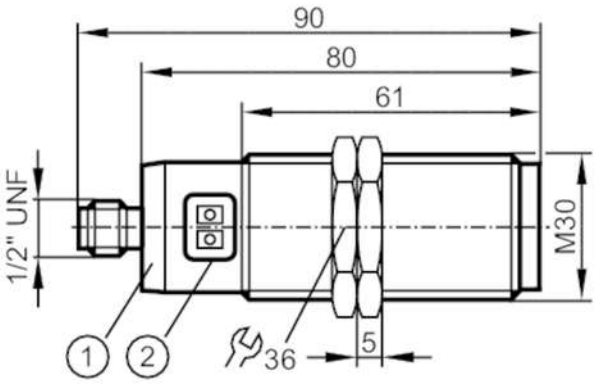
KI0054

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	
Detection zone			
Sensing range	[mm]	5...40; (programming buttons)	
Sensing range adjustable		yes	
Factory setting sensing range	[mm]	20	
Real sensing range Sr	[mm]	20 ± 10 %	
Accuracy / deviations			
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	
Operating conditions			
Ambient temperature	[°C]	-25...80	
Note on ambient temperature		temperature of the sensing face: -25...110 °C	
Protection		IP 65; IP 67	
Tests / approvals			
EMC		EN 60947-5-2	
MTTF	[years]	321	
Mechanical data			
Weight	[g]	109.8	
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	
Displays / operating elements			
Display		switching status	1 x LED ring, yellow plug lights translucently
Teach function		yes	
Electronic lock		yes	
Electrical connection			
Required protection		miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting	
Accessories			
Items supplied		lock nuts: 2	
Remarks			
Remarks		Note:	
		Check the safe functioning of the unit after a short circuit.	
Pack quantity		1 pcs.	

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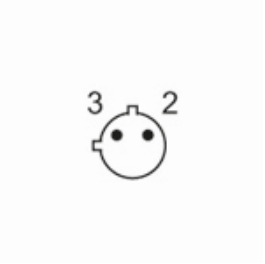
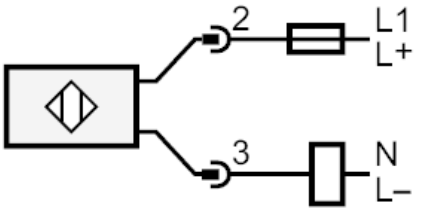
Electrical connection - plug

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





Note miniature fuse to IEC60127-2 sheet 1 ≤ 2 A fast acting