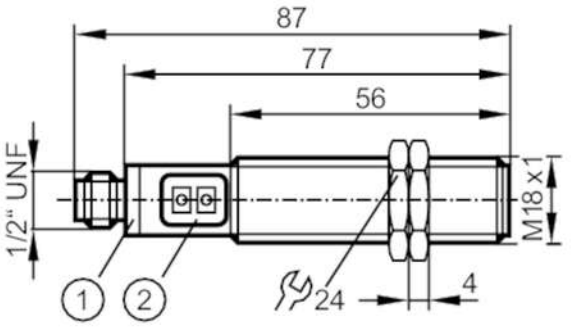
KG0016

Capacitive sensor

KG-2120NFBOAP2T/LS100



1 LED ring
2 programming buttons

Product characteristics		
Output function		normally open / normally closed; (selectable)
Sensing range	[mm]	4...24; (programming buttons)
Housing		threaded type
Dimensions	[mm]	M18 x 1 / L = 87
Application		
Installation		detection through non-metallic container wall or on bypass pipes
Media		dry bulk material; liquids
Recommended media		media with a dielectric constant < 20; oils
Electrical data		
Frequency AC	[Hz]	47...63
Operating voltage	[V]	30...250 AC / 20...250 DC
Protection class		II
Reverse polarity protection		yes
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]		4...24; (programming buttons)
Sensing range adjustable			yes
Factory setting sensing range	[mm]		12
Real sensing range Sr	[mm]		12 ± 10 %
Accuracy / deviations			
Correction factor			glass: 0.4 / 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]		60
Housing			threaded type
Mounting			non-flush mountable
Dimensions	[mm]		M18 x 1 / L = 87
Thread designation			M18 x 1
Materials			housing: PBT; pushbuttons: TPE-U; LED window: PC
Displays / operating elements			
Display		switching status	1 x LED ring, yellow plug lights translucently
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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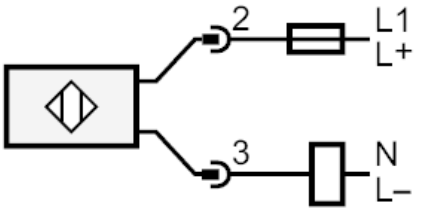
Electrical connection - plug

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





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