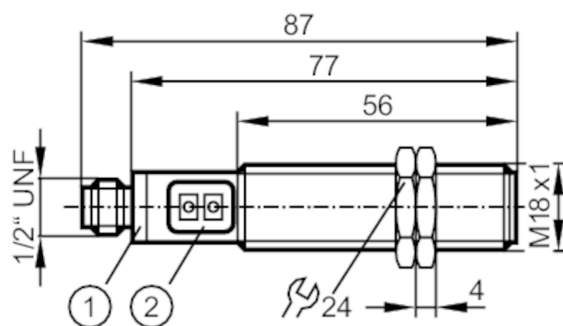


KG0016



Capacitive sensor

KG-2120NFBOP2T/LS100



- 1 LED ring
- 2 programming buttons



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
Overload protection		no

KG0016



Capacitive sensor

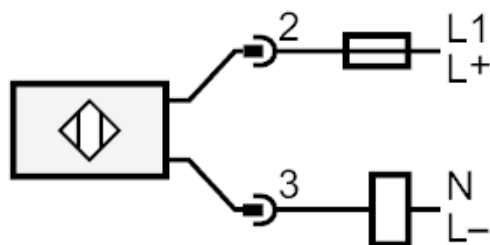
KG-2120NFBOP2T/LS100

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; plug: PC; pushbuttons: TPE-U
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		
Accessories (supplied)		lock nuts: 2
Remarks		
Remarks		Note: Check the safe functioning of the unit after a short circuit.
Pack quantity		1 pcs.
Electrical connection - plug		
Connector: 1 x 1/2"		
		

KG0016

Capacitive sensor

KG-2120NFBOAP2T/LS100



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