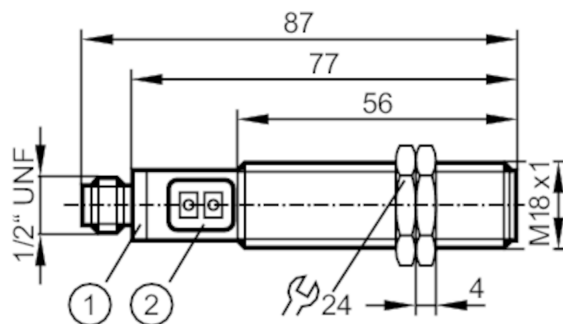


KG0016



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

KG0016



Capacitive sensor

KG-2120NFBOAP2T/LS100

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
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]	59.5
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

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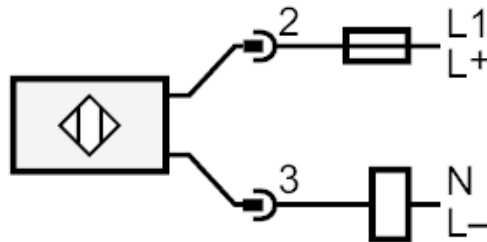
Capacitive sensor

KG-2120NFBOAP2T/LS100

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"



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