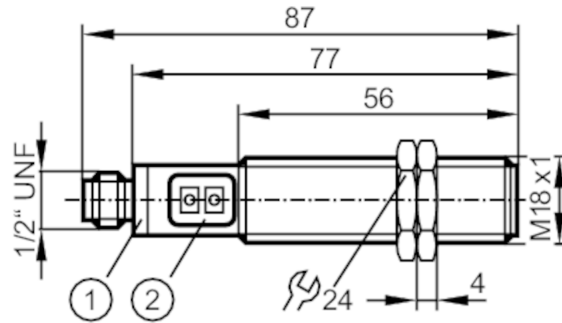


KG0016



Capacitive sensor

KG-2120NFBOAP2T/LS100



- 1 LED ring
- 2 Programming buttons



Product characteristics

Output function		normally open / 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 / 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
Monitoring range		
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
Material		housing: PBT; Pushbuttons: TPE-U; LED window: PC
Displays / operating elements		
Display	Switching status	1 x LED ring, yellow translucent connector indicates output status
Electrical connection		
Required protection		miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting

KG0016



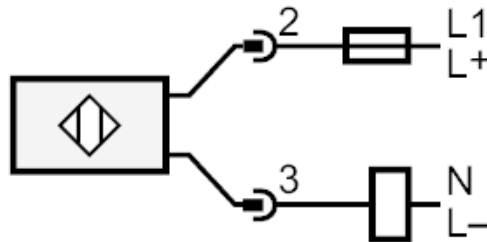
Capacitive sensor

KG-2120NFBOAP2T/LS100

Accessories	
Items 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