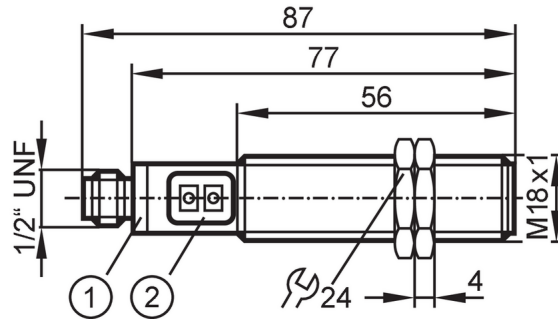


# KG0016



## 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

### 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)
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## Capacitive sensor

KG-2120NFBOAP2T/LS100

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
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### Electrical connection

Required protection	miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting
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### Accessories

Items supplied	lock nuts: 2
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### Remarks

Remarks	Note: Check the safe functioning of the unit after a short circuit.
Pack quantity	1 pcs.

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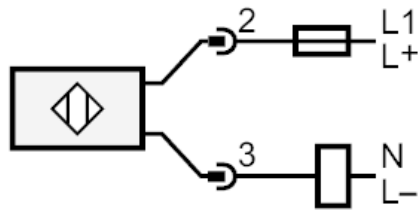


## Capacitive sensor

KG-2120NFBOAP2T/LS100

### Electrical connection - plug

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



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