

## KN120200

### CAPACITIVE SENSORS • NORM SWITCHING DISTANCE

Capacitive proximity switches are contact-free sensors. They detect metallic and non-metallic objects, regardless of whether they move or not. The achievable sensing range of the devices depends on the object material, its dimensions and the response sensitivity, which is set via a potentiometer. The vibration-resistant sensors can be approached laterally or frontally. Capacitive proximity switches are used for presence detection (e.g. sealing detection), positioning (e.g. PET bottles), counting (e.g. plastic caps), level detection (e.g. lubricant) or distance measurements (e.g. thickness measurement) of solid and liquid materials.

#### MECHANICAL DATA

Active area material of sensor	PTFE
Ambient temperature	-25 °C ... 70 °C
Cable length	2 m
Degree of protection (IP)	IP67
Housing design	Cylinder, screw-thread
Mechanical mounting condition for sensor	Non-flush
Pressure-proof	No
Sensor length	50 mm
Thread pitch	1 mm
Thread size, metric	12

#### ELECTRICAL DATA

Cascadable	No
Correction factor (glass)	0.6
Correction factor (oil)	0.5
Correction factor (PVC)	0.5
Correction factor (wood)	0.6
Hysteresis	15 %
Max. output current	250 mA
No-load current	15 mA
Reverse polarity protection	Yes
Short-circuit-proof	Yes
Suitable for safety functions	No
Supply voltage	10 V ... 35 V
Switching distance	6 mm
Switching frequency	50 Hz
Type of electrical connection	Cable
Type of switching function	Breaker contact
Type of switching output	PNP
Voltage drop	2 V
Voltage type	DC

## ELECTRICAL DATA

With monitoring function of downstream devices

No

## DIMENSIONAL DRAWING

### INSTALLATION



Mounting / Installation may only be carried out by a qualified electrician!

### DISPOSAL



## SAFETY WARNINGS

Before initial operation, please make sure to follow all safety instructions that may be provided in the product information!