

KN991067

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

Ambient temperature	-25 °C ... 80 °C
Cable length	2 m
Degree of protection (IP)	IP65
Increased ambient temperatures > 80°C	Yes
Material of cable sheath	PVC
Mechanical mounting condition for sensor	Non-flush
Number of wires	2
Pressure-proof	No
Wire cross section	0.5 mm ²

ELECTRICAL DATA

Cascadable	No
Correction factor (glass)	0.4
Correction factor (PVC)	0.2
Hysteresis	15 %
Max. output current	100 mA
Suitable for safety functions	No
Supply voltage	20 V ... 250 V
Switching distance	50 mm
Switching frequency	10 Hz
Type of electrical connection	Cable
Type of switching function	Normally open contact
Voltage type	AC/DC
With LED display	Yes
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!