

**KN990506****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
Degree of protection (IP)	IP65
Increased ambient temperatures > 80°C	Yes
Mechanical mounting condition for sensor	Non-flush
Pressure-proof	No

**ELECTRICAL DATA**

Cascadable	No
Correction factor (glass)	0.4
Correction factor (PVC)	0.2
Hysteresis	15 %
Max. output current	250 mA
Suitable for safety functions	No
Supply voltage	10 V ... 36 V
Switching distance	60 mm
Switching frequency	10 Hz
Type of electrical connection	Clamp
Type of switching function	Programmable/configurable
Type of switching output	PNP
Voltage drop	2.5 V
Voltage type	DC
With LED display	Yes
With monitoring function of downstream devices	No

**DIMENSIONAL DRAWING****INSTALLATION****DISPOSAL**



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



## SAFETY WARNINGS

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