

KN990903

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 ... 70 °C
Degree of protection (IP)	IP65
Housing material	PBT
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	15 mm
Switching frequency	40 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!