

**KN990961**

**CAPACITIVE SENSORS • ENLARGED AMBIENT TEMPERATURE**

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	-200 °C ... 250 °C
Ambient temperatures < -25°C	Yes
Cable length	2 m
Degree of protection (IP)	IP67
Housing design	Cylinder, screw-thread
Housing material	Stainless steel
Increased ambient temperatures > 80°C	Yes
Material of cable sheath	FEP
Mechanical mounting condition for sensor	Non-flush
Pressure-proof	No
Sensor length	70 mm
Thread pitch	1.5 mm
Thread size, metric	22

**ELECTRICAL DATA**

Cascadable	No
Reverse polarity protection	Yes
Setting procedure	Manual adjustment
Short-circuit-proof	Yes
Suitable for safety functions	No
Switching distance	10 mm
Switching distance	2 mm ... 10 mm
Type of electrical connection	Connector M12
Type of switching output	Amplifier
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!