

## KN990782

### 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	PBT
Ambient temperature (MAX)	70 °C
Ambient temperature (MIN)	-25 °C
Degree of protection (IP)	IP65
Housing design	Cylinder, screw-thread
Housing material	PBT
Mechanical mounting condition for sensor	Non-flush
Pressure-proof	No
Sensor length	125 mm
Thread pitch	1.5 mm
Thread size, metric	30

#### ELECTRICAL DATA

Cascadable	No
Correction factor (glass)	0.4
Correction factor (oil)	0.2
Correction factor (PVC)	0.2
Hysteresis	15 %
Max. output current	250 mA
Setting procedure	Manual adjustment
Suitable for safety functions	No
Supply voltage (MAX)	250 V
Supply voltage (MIN)	20 V
Switching distance	15 mm
Switching distance (MAX)	12.1 mm
Switching frequency	25 Hz
Type of electrical connection	Clamp
Type of switching function	Normally closed contact/normally open contact
Type of switching output	Two-wire
Voltage drop	10 V

**ELECTRICAL DATA**

Voltage type	AC/DC
With LED display	Yes
With monitoring function of downstream devices	No

**OTHER DATA**

Level detection	Yes
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**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!

Never use these devices in applications where the safety of a person depends on their functionality.