

KB087000

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 (MAX)	70 °C
Ambient temperature (MIN)	-25 °C
Degree of protection (IP)	IP67
Housing coating	Nickel-plated
Housing design	Cylinder, screw-thread
Housing material	Brass
Mechanical mounting condition for sensor	Flush
Pressure-proof	No
Sensor length	35 mm
Thread pitch	1 mm
Thread size, metric	8

ELECTRICAL DATA

Cascadable	No
Suitable for safety functions	No
Switching distance	0.5 mm
Switching distance (MAX)	0.5 mm
Switching distance (MIN)	0.5 mm
Type of electrical connection	Cable
Type of switching function	Amplifier
Type of switching output	NAMUR
Voltage type	DC
With monitoring function of downstream devices	No

OTHER DATA

Explosion protection category for gas	ATEX gas-ex-protection, Cat. 1G
Level detection	Yes

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.