

KN990909

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 | PTFE |
| Ambient temperature | -25 °C ... 70 °C |
| Cable length | 5 m |
| Degree of protection (IP) | IP67 |
| Housing material | PTFE |
| Material of cable sheath | PUR (Polyurethane) |
| Mechanical mounting condition for sensor | Non-flush |
| Number of wires | 2 |
| Pressure-proof | No |
| Teflon housing | Yes |
| Wire cross section | 0.75 mm ² |

ELECTRICAL DATA

| | |
|--|-------------|
| Cascadable | No |
| Residual ripple | 5 % |
| Suitable for safety functions | No |
| Supply voltage | 8 V ... 8 V |
| Switching distance | 20 mm |
| Switching frequency | 50 Hz |
| Type of electrical connection | Cable |
| Type of switching output | NAMUR |
| Voltage type | DC |
| 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!