

KN060170**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	-10 °C ... 70 °C
Degree of protection (IP)	IP65
Housing design	Cylinder plain
Housing material	Stainless steel V2A
Mechanical mounting condition for sensor	Non-flush
Pressure-proof	No
Sensor diameter	6 mm
Sensor length	54 mm

ELECTRICAL DATA

Cascadable	No
Max. output current	50 mA
Suitable for safety functions	No
Switching distance	3 mm
Switching distance	0.1 mm ... 3 mm
Type of electrical connection	Connector M8
Type of switching function	Normally open contact
Type of switching output	PNP
Voltage type	DC
With monitoring function of downstream devices	No

OTHER DATA

Level detection	Yes
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CONNECTION



Colors: 1 = BN (brown), 3 = BU (blue), 4 = BK (black)

Functions: 1 = L+, 3 = L-, 4 = PNP 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!