

KB12C142**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	-30 °C ... 60 °C
Ambient temperatures < -25°C	Yes
Cable length	4 m
Degree of protection (IP)	IP65
Housing design	Cylinder, screw-thread
Mechanical mounting condition for sensor	Flush
Pressure-proof	No
Sensor length	60 mm
Thread pitch	1 mm
Thread size, metric	12

ELECTRICAL DATA

Cascadable	No
Max. output current	200 mA
No-load current	10 mA
Suitable for safety functions	No
Supply voltage	12 V ... 35 V
Switching distance	4 mm
Switching distance	1 mm ... 4 mm
Switching frequency	100 Hz
Type of electrical connection	Connector M12
Type of switching output	PNP
Voltage drop	1.6 V
Voltage type	DC
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!