

KN34A570

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	-25 °C ... 70 °C
Degree of protection (IP)	IP67
Housing design	Cylinder plain
Housing material	PBT
Mechanical mounting condition for sensor	Non-flush
Pressure-proof	No
Sensor diameter	34 mm
Sensor length	92 mm

ELECTRICAL DATA

Cascadable	No
Max. output current	400 mA
No-load current	12 mA
Suitable for safety functions	No
Supply voltage	10 V ... 55 V
Switching distance	20 mm
Switching frequency	25 Hz
Type of electrical connection	Connector M12
Type of switching function	Breaker contact
Type of switching output	PNP
Voltage drop	1.5 V
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!