

KN990532

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	PBT
Ambient temperature	-25 °C ... 70 °C
Degree of protection (IP)	IP67
Housing design	Cylinder, screw-thread
Housing material	PBT
Mechanical mounting condition for sensor	Non-flush
Pressure-proof	No
Sensor length	79 mm
Thread pitch	1.5 mm
Thread size, metric	32

ELECTRICAL DATA

Cascadable	No
Hysteresis	0.2 %
Max. output current	400 mA
No-load current	20 mA
Reverse polarity protection	Yes
Setting procedure	Parameterization
Short-circuit-proof	Yes
Suitable for safety functions	No
Supply voltage	10 V ... 60 V
Switching distance	30 mm
Switching frequency	25 Hz
Type of electrical connection	Connector M12
Type of switching function	Programmable/configurable
Type of switching output	Other
Voltage type	DC
With LED display	Yes
With monitoring function of downstream devices	No

OTHER DATA

Level detection

Yes

Level detection of synthetic granules for injection molding machines

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!