

KB32C501

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 (MAX)	70 °C
Ambient temperature (MIN)	-25 °C
Degree of protection (IP)	IP67
Housing design	Cylinder, screw-thread
Housing material	PTFE
Material of cable sheath	PUR (Polyurethane)
Mechanical mounting condition for sensor	Flush
Number of wires	4
Pressure-proof	No
Sensor length	70 mm
Teflon housing	Yes
Thread pitch	1.5 mm
Thread size, metric	32
Wire cross section	0.5 mm ²

ELECTRICAL DATA

Cascadable	No
Max. output current	250 mA
No-load current	15 mA
Number of switching outputs	2
Rated control supply voltage U_s at DC (MAX)	35 V
Rated control supply voltage U_s at DC (MIN)	10 V
Reverse polarity protection	Yes
Short-circuit-proof	Yes
Suitable for safety functions	No
Supply voltage (MAX)	35 V
Supply voltage (MIN)	10 V
Switching distance	20 mm
Switching distance (MAX)	30 mm
Switching distance (MIN)	0.5 mm
Switching frequency	200 Hz

ELECTRICAL DATA

Type of electrical connection	Cable
Type of switching function	Anticoincidence
Type of switching output	PNP
Voltage drop	2 V
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!

Never use these devices in applications where the safety of a person depends on their functionality.