

KN18C789

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 ... 75 °C
Cable length	2 m
Degree of protection (IP)	IP67
Housing design	Cylinder, screw-thread
Housing material	Kynar (PVDF)
Material of cable sheath	PVC
Mechanical mounting condition for sensor	Non-flush
Number of wires	3
Pressure-proof	No
Sensor length	82 mm
Thread pitch	1 mm
Thread size, metric	18
Wire cross section	0.5 mm ²

ELECTRICAL DATA

Cascadable	No
Reverse polarity protection	Yes
Setting procedure	Manual adjustment
Short-circuit-proof	Yes
Suitable for safety functions	No
Switching distance	8 mm
Type of electrical connection	Cable
Type of switching output	Amplifier
With LED display	Yes
With monitoring function of downstream devices	No

OTHER DATA

Explosion protection category for dust	ATEX dust-ex-protection, Cat. 1D
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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!