IPF ELECTRONIC

DATA SHEET **KB08A498** • Subject to alteration! Version: 03.05.2019

KB08A498

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	PTFE
Ambient temperature	-25 °C ... 70 °C
Cable length	2 m
Degree of protection (IP)	IP67
Housing design	Cylinder, screw-thread
Material of cable sheath	PUR (Polyurethane)
Mechanical mounting condition for sensor	Flush
Number of wires	2
Pressure-proof	No
Sensor length	15 mm
Thread pitch	1 mm
Thread size, metric	8
Wire cross section	0.14 mm²

ELECTRICAL DATA

Cascadable	No
Suitable for safety functions	No
Supply voltage	5 V ... 10 V
Switching distance	1.5 mm
Switching frequency	50 Hz
Type of electrical connection	Cable
Type of switching output	NAMUR
Voltage type	DC
With monitoring function of downstream devices	No

DIMENSIONAL DRAWING

INSTALLATION

DISPOSAL

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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!